SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No.: SDG No.: MBH6M8

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBH6M7	P4624-01		X	X	X
MBH6M8	P4624-02		X	X	X
MBH6M9	P4624-03		X	X	X
MBH6N0	P4624-04		X	X	X
MBH6N1	P4624-05		X	X	X
MBH8M6	P4624-06		X	X	X
MBH6N2	P4624-07		X	X	X
MBH6N3	P4624-08		X	X	X
MBH6N4	P4624-09		X	X	X
MBH6N5	P4624-10		X	X	X
MBH6N6	P4624-11		X	X	X
MBH6N6D	P4624-12		X	X	X
MBH6N6S	P4624-13		X	X	X
MBH6N7	P4624-14		X	X	X

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

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Case #: 51835

Cooler #: 1

No: 2-1029-0300-0041-03

Lab: Alliance Technical Group, LLC - CLP

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P001-CF07-01	BH6M7	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1723 (4 C), 1727 (4 C) (3)	CF07	10/29/2024 10:10	
P001-CF08-01	BH6M8	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1731 (4 C), 1735 (4 C) (3)	CF08	10/29/2024 10:15	
P001-CF09-01	BH6M9	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1739 (4 C), 1743 (4 C) (3)	CF09	10/29/2024 10:20	
P001-CF10-01	BH6N0	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1747 (4 C), 1751 (4 C) (3)	CF10	10/29/2024 10:30	
P001-CF11-01	BH6N1	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1755 (4 C), 1759 (4 C) (3)	CF11	10/29/2024 10:40	
P001-CF06-01	BH8M6	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1382 (4 C), 1627 (4 C) (3)	CF06	10/29/2024 10:05	
P001-CF07-01	MBH6M7	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1724 (4 C), 1728 (4 C) (3)	CF07	10/29/2024 10:10	1
P001-CF08-01	MBH6M8	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1732 (4 C), 1736 (4 C) (3)	CF08	10/29/2024 10:15	2 SPLP Matrix
P001-CF09-01	MBH6M9	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1740 (4 C), 1744 (4 C) (3)	CF09	10/29/2024 10:20	3
P001-CF10-01	MBH6N0	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1748 (4 C), 1752 (4 C) (3)	CF10	10/29/2024 10:30	4

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL Metals+Hg+CN=TAL Metals+Hg+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun #1 Temp 2.4 C Custody Seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-1029-0300-0041-03

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

Case #: 51835

Cooler #: 1

Lab: Alliance Technical Group, LLC - CLP

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P001-CF11-01	MBH6N1	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1756 (4 C), 1760 (4 C) (3)	CF11	10/29/2024 10:40	5
P001-CF06-01	MBH8M6	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1384 (4 C), 1628 (4 C) (3)	CF06	10/29/2024 10:05	6

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL Metals+Hg+CN=TAL Metals+Hg+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		10-29-24 1500	IR Gun # 1 Temp 2.4 C custody seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-1029-0300-0041-04

DateShipped: 10/29/2024
CarrierName: Hand Deliver
AirbillNo: N/A

Case #: 51835
Cooler #: 1

Lab: Alliance Technical Group, LLC - CLP
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P001-CF12-01	BH6N2	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1763 (4 C), 1767 (4 C) (3)	CF12	10/29/2024 10:45	
P001-CF13-01	BH6N3	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1771 (4 C), 1775 (4 C) (3)	CF13	10/29/2024 10:50	
P001-CF14-01	BH6N4	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1779 (4 C), 1783 (4 C) (3)	CF14	10/29/2024 10:55	
P001-CF15-01	BH6N5	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1787 (4 C), 1791 (4 C) (3)	CF15	10/29/2024 11:00	
P001-CF16-01	BH6N6	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1795 (4 C), 1799 (4 C) (4)	CF16	10/29/2024 11:05	
P001-CF16-02	BH6N7	Soil/ START V	Grab	SPLP SVOC + Pest(7), TAL SVOCs+Pest+PCB(7)	1803 (4 C), 1807 (4 C) (3)	CF16	10/29/2024 11:10	
P001-CF12-01	MBH6N2	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1764 (4 C), 1768 (4 C) (3)	CF12	10/29/2024 10:45	7
P001-CF13-01	MBH6N3	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1772 (4 C), 1776 (4 C) (3)	CF13	10/29/2024 10:50	8
P001-CF14-01	MBH6N4	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1780 (4 C), 1784 (4 C) (3)	CF14	10/29/2024 10:55	9
P001-CF15-01	MBH6N5	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1788 (4 C), 1792 (4 C) (3)	CF15	10/29/2024 11:00	10

Sample(s) to be used for Lab QC: P001-CF16-01 Tag 1795, P001-CF16-01 Tag 1799, P001-CF16-01 Tag 1796, P001-CF16-01 Tag 1800

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL Metals+Hg+CN=TAL Metals+Hg+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun # 1 Temp 2.8°C Custody Seal intact Temp blank present

68HERH20D0011

SDG # MBH6M8

USEPA CLP COC (LAB COPY)

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Case #: 51835

Cooler #: 1

No: 2-1029-0300-0041-04

Lab: Alliance Technical Group, LLC - CLP

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

5

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P001-CF16-01	MBH6N6	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1796 (4 C), 1800 (4 C) (6)	CF16	10/29/2024 11:05	11
P001-CF16-02	MBH6N7	Soil/ START V	Grab	SPLP Metals + Hg(7), TAL Metals+Hg+CN(7)	1804 (4 C), 1808 (4 C) (3)	CF16	10/29/2024 11:10	12

Sample(s) to be used for Lab QC: P001-CF16-01 Tag 1800

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SPLP SVOC + Pest=SPLP SVOCs + Pesticides, TAL SVOCs+Pest+PCB=TAL SVOC+Pest+PCB, SPLP Metals + Hg=SPLP Metals + Hg&CN, TAL Metals+Hg+CN=TAL Metals+Hg+CN

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun #1 Temp 2.8c Custody Seal intact Temp blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Aggarwa Rena		Log-in Date 10/29/2024
Received By (Signature)		
Case Number 51835	SDG No. MBH6M8	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Absent
5. Airbill No. and Shipping Container ID No.	HAND DELIVERED 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/29/2024
12.Time Received	15:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBH6M7	N/A	1728	P4624-01	Intact
2	MBH6M8	N/A	1736	P4624-02	Intact
3	MBH6M9	N/A	1744	P4624-03	Intact
4	MBH6N0	N/A	1752	P4624-04	Intact
5	MBH6N1	N/A	1760	P4624-05	Intact
6	MBH8M6	N/A	1628	P4624-06	Intact
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/29/24	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 2
Received By (Print Name) Cassandra Leic		Log-in Date **10/29/2024**
Received By (Signature)		
Case Number 51835	SDG No. MBH6M8	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Absent
5. Airbill No. and Shipping Container ID No.	HAND DELIVERED 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/29/2024
12.Time Received	15:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBH6N2	N/A	1768	P4624-07	Intact
2	MBH6N3	N/A	1776	P4624-08	Intact
3	MBH6N4	N/A	1784	P4624-09	Intact
4	MBH6N5	N/A	1792	P4624-10	Intact
5	MBH6N6	N/A	1800	P4624-11	Intact
6	MBH6N6D	N/A	1800	P4624-12	Intact
7	MBH6N6S	N/A	1800	P4624-13	Intact
8	MBH6N7	N/A	1808	P4624-14	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	10/29/24	Logbook Page No.	N/A

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

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51835**	SDG NO.	**MBH6M8**
MA NO.		SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	5	✓	
3. Sample Log-In Sheet (DC-1)	6	7	✓	
4. CSF Inventory Sheet (DC-2)	8	10	✓	
5. SDG Narrative	11	15	✓	
6. Communication Logs	16	20	✓	
7. Percent Solids Log	21	22	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	23	34	✓	
18. Instrument raw data by instrument in analysis order	35	541	✓	
Other Data				
19. Standard and Reagent Preparation Logs	542	679	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	680	681	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	682	688	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	689	700	✓	
27. Instrument raw data by instrument in analysis order	701	702	✓	
Other Data				
28. Standard and Reagent Preparation Logs	703	729	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	730	731	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	732	733	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	734	745	✓	
36. Instrument raw data by instrument in analysis order	746	748	✓	
Other Data				
37. Standard and Reagent Preparation Logs	749	778	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	779	780	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	781	782	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 0)	NA	NA	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	783	784	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	785	788	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab)

(Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	(Date)

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBH6M8
CASE # 51835
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4624

A. Number of Samples and Date of Receipt

12 Soil samples were delivered to the laboratory intact on 10/29/2024.

B. Parameters

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Mercury, Cyanide.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.4^{o}C, 2.8^{o}C

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

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

Issue 2: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.

E. Corrective Action taken for above:

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

Resolution 2: Per Region 2, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (14-day TAT).

F. Analytical Techniques:

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

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBH6M7 For Arsenic :

If C = 3.23 ppb
Vf = 500 ml
W = 1.15 g
S = 0.953(95.3/100)
DF = 1

$$\text{Concentration (mg/kg)} = 3.23 \times \frac{500}{1.15 \times 0.953} \times 1 / 1000$$

$$= 1.473607 \text{ mg/kg}$$

$$= 1.5 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation:

If C =0.1488 ppb
Vf = 100 mL
W = 0.58g
S = 0.827(82.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.1488 \frac{100}{0.58 \times 0.827} \times 1 / 1000$$

$$= 0.03102 \text{ mg/kg}$$

$$= 0.031 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for CN Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg:

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF / 1000$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation:

If C = 6.2798 ppb
Vf = 50 ml
W = 1.03 g
S = 0.807(80.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 6.2798 \times \frac{50}{1.03 \times 0.807} \times 1 / 1000$$

$$= 0.37775 \text{ mg/kg}$$

$$= 0.38 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

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

Internal standard 89Y(1) was out Side qc limit for sample MBH6M7 in Original so for this sample affected parameters are reported from 2X Dilution.

Internal standard 6Li was out Side qc limit for samples MBH6M8, MBH6M9, MBH6N0, MBH6N1, MBH8M6, MBH6N2 in Original so for these samples affected parameters are reported from 2X Dilution.

Internal standard 6Li was out Side qc limit for samples MBH6N6, MBH6N6D, MBH6N6S in Original & 2X Dilution So for these samples affected parameters are reported from Original.

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

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb

284 Sheffield Street
Mountainside, NJ 07092

Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Wednesday, October 30, 2024 11:51 AM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Leung.christina@epa.gov; Brandon-Bazile, Kim; Feranda, Jennifer; Bauer, Heather E; Johnson, Matthew
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: SKM_95824102915230.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

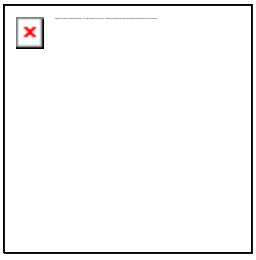
Good morning,

Issue: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.
Resolution: Per Region 2, the laboratory should note the issue in the SDG Narrative and proceed with the analysis of the samples as scheduled (14-day TAT).

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator
Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com



GENERAL DYNAMICS
information technology

Leave alert: Nov 4th - 8th

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From: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Sent: Wednesday, October 30, 2024 9:38 AM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Daisy,

Sampler is OK with 14 day TAT now, please proceed with analysis with 14 day TAT.
Apologies for the unnecessary back and forth.

Regards,

Christina Leung
Regional Sample Control Center (RSCC)
USEPA Region 2
LSASD-HWSB-HWSS
732-906-6995
Leung.christina@epa.gov
Updated CLPSS Address: https://clpss.epa.gov/uaa/login

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Wednesday, October 30, 2024 9:37 AM
To: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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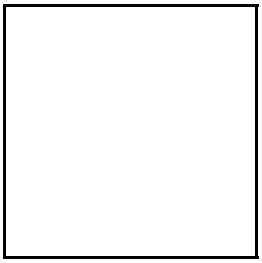
Good morning Christina,

Would the Region please confirm whether the 7-day TAT change would need to be applied for all organic samples.
Please note that the SPLP analyses cannot be scheduled with a 7-day TAT.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator

Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com



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information technology

Leave alert: Nov 4th - 8th

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From: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Sent: Tuesday, October 29, 2024 6:57 PM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: RE: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Daisy,

Per the sampler, would it be possible to change the TAT from 14 days to 7 days?

Regards,

Christina Leung
Regional Sample Control Center (RSCC)
USEPA Region 2
LSASD-HWSB-HWSS
732-906-6995
Leung.christina@epa.gov
Updated CLPSS Address: https://clpss.epa.gov/uaa/login

From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Tuesday, October 29, 2024 5:30 PM
To: Leung, Christina (she/her/hers) <Leung.Christina@epa.gov>
Cc: Feranda, Jennifer <Feranda.Jennifer@epa.gov>; Brandon-Bazile, Kim <Brandon-Bazile.Kim@epa.gov>
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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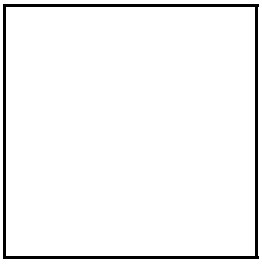
Good afternoon,

Please see the below issue from ACE.

Issue: The attached COCs lists a 7-day TAT, but a 14-day TAT is scheduled for this Case.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2&3 CLP QSS Coordinator
Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
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Chantilly, VA 20151
www.gdit.com



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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Tuesday, October 29, 2024 4:11 PM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 02 | Case 51835 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good afternoon,

As per ASR case 51835 is 14 days TAT but all COC received today for this case mentioned 7 days TAT there for lab would like to confirm they should proceed with analysis ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:10
In Date: 11/03/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/04/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB133258

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4624-01	MBH6M7	1	1.18	8.51	9.69	9.29	95.3	
P4624-02	MBH6M8	2	1.18	8.56	9.74	9.36	95.6	
P4624-03	MBH6M9	3	1.17	8.66	9.83	9.39	94.9	
P4624-04	MBH6N0	4	1.17	8.43	9.6	9.26	96.0	
P4624-05	MBH6N1	5	1.17	8.38	9.55	9.12	94.9	
P4624-06	MBH8M6	6	1.16	8.57	9.73	9.32	95.2	
P4624-07	MBH6N2	7	1.19	8.59	9.78	9.33	94.8	
P4624-08	MBH6N3	8	1.18	8.79	9.97	9.32	92.6	
P4624-09	MBH6N4	9	1.14	8.45	9.59	9.24	95.9	
P4624-10	MBH6N5	10	1.15	8.82	9.97	9.35	93.0	
P4624-11	MBH6N6	11	1.14	8.83	9.97	9.4	93.5	
P4624-12	MBH6N6D	12	1.14	8.83	9.97	9.4	93.5	
P4624-13	MBH6N6S	13	1.14	8.83	9.97	9.4	93.5	
P4624-14	MBH6N7	14	1.13	8.75	9.88	9.4	94.5	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 133258

WorkList Name : %1-p4624 **WorkList ID :** 185040 **Department :** Wet-Chemistry **Date :** 11-03-2024 07:47:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4624-01	MBH6M7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-02	MBH6M8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-03	MBH6M9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-04	MBH6N0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-05	MBH6N1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-06	MBH8M6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-07	MBH6N2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-08	MBH6N3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-09	MBH6N4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-10	MBH6N5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-11	MBH6N6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-12	MBH6N6D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-13	MBH6N6S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO
P4624-14	MBH6N7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	10/29/2024	Chemtech -SO

22

Date/Time 11/03/24 12:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/03/24 13:30

Raw Sample Received by:

Raw Sample Relinquished by:

EPA SAMPLE NO.

MBH6M7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-01

% Solids: 95.3 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.91	U	11/09/2024	2333
7440-38-2	Arsenic	1.5		11/09/2024	2333
7440-39-3	Barium	90		11/09/2024	2333
7440-41-7	Beryllium	0.58		11/09/2024	2333
7440-43-9	Cadmium	0.46	U	11/09/2024	2333
7440-47-3	Chromium	8.6		11/09/2024	2333
7440-48-4	Cobalt	6.3		11/09/2024	2333
7440-50-8	Copper	120		11/09/2024	2333
7439-92-1	Lead	6.1		11/09/2024	2333
7439-96-5	Manganese	280		11/09/2024	2333
7440-02-0	Nickel	13		11/09/2024	2333
7782-49-2	Selenium	4.6	UD	11/10/2024	0155
7440-22-4	Silver	0.11	J	11/09/2024	2333
7440-28-0	Thallium	0.12	J	11/09/2024	2333
7440-62-2	Vanadium	12		11/09/2024	2333
7440-66-6	Zinc	26		11/09/2024	2333

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

Comments:

EPA SAMPLE NO.

MBH6M8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-02

% Solids: 95.6 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.80	U	11/09/2024	2336
7440-38-2	Arsenic	1.8		11/09/2024	2336
7440-39-3	Barium	83		11/09/2024	2336
7440-41-7	Beryllium	0.54	JD	11/10/2024	0158
7440-43-9	Cadmium	0.40	U	11/09/2024	2336
7440-47-3	Chromium	7.8		11/09/2024	2336
7440-48-4	Cobalt	6.4		11/09/2024	2336
7440-50-8	Copper	220		11/09/2024	2336
7439-92-1	Lead	5.8		11/09/2024	2336
7439-96-5	Manganese	310		11/09/2024	2336
7440-02-0	Nickel	13		11/09/2024	2336
7782-49-2	Selenium	2.0	U	11/09/2024	2336
7440-22-4	Silver	0.15	J	11/09/2024	2336
7440-28-0	Thallium	0.10	J	11/09/2024	2336
7440-62-2	Vanadium	12		11/09/2024	2336
7440-66-6	Zinc	27		11/09/2024	2336

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

Comments:

EPA SAMPLE NO.

MBH6M9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-03

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.86	U	11/09/2024	2339
7440-38-2	Arsenic	1.4		11/09/2024	2339
7440-39-3	Barium	79		11/09/2024	2339
7440-41-7	Beryllium	0.52	JD	11/10/2024	0201
7440-43-9	Cadmium	0.43	U	11/09/2024	2339
7440-47-3	Chromium	6.8		11/09/2024	2339
7440-48-4	Cobalt	5.0		11/09/2024	2339
7440-50-8	Copper	170		11/09/2024	2339
7439-92-1	Lead	5.4		11/09/2024	2339
7439-96-5	Manganese	210		11/09/2024	2339
7440-02-0	Nickel	9.9		11/09/2024	2339
7782-49-2	Selenium	2.1	U	11/09/2024	2339
7440-22-4	Silver	0.13	J	11/09/2024	2339
7440-28-0	Thallium	0.077	J	11/09/2024	2339
7440-62-2	Vanadium	9.7		11/09/2024	2339
7440-66-6	Zinc	21		11/09/2024	2339

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

Comments:

EPA SAMPLE NO.

MBH6N0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-04

% Solids: 96 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.73	U	11/09/2024	2342
7440-38-2	Arsenic	9.6		11/09/2024	2342
7440-39-3	Barium	98		11/09/2024	2342
7440-41-7	Beryllium	0.63	JD	11/10/2024	0204
7440-43-9	Cadmium	0.12	J	11/09/2024	2342
7440-47-3	Chromium	11		11/09/2024	2342
7440-48-4	Cobalt	8.1		11/09/2024	2342
7440-50-8	Copper	2000		11/09/2024	2342
7439-92-1	Lead	6.9		11/09/2024	2342
7439-96-5	Manganese	420		11/09/2024	2342
7440-02-0	Nickel	16		11/09/2024	2342
7782-49-2	Selenium	1.8	U	11/09/2024	2342
7440-22-4	Silver	0.64		11/09/2024	2342
7440-28-0	Thallium	0.088	J	11/09/2024	2342
7440-62-2	Vanadium	15		11/09/2024	2342
7440-66-6	Zinc	33		11/09/2024	2342

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

Comments:

EPA SAMPLE NO.

MBH6N1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-05

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.78	U	11/09/2024	2345
7440-38-2	Arsenic	1.5		11/09/2024	2345
7440-39-3	Barium	80		11/09/2024	2345
7440-41-7	Beryllium	0.52	JD	11/10/2024	0207
7440-43-9	Cadmium	0.39	U	11/09/2024	2345
7440-47-3	Chromium	7.6		11/09/2024	2345
7440-48-4	Cobalt	5.2		11/09/2024	2345
7440-50-8	Copper	100		11/09/2024	2345
7439-92-1	Lead	5.7		11/09/2024	2345
7439-96-5	Manganese	230		11/09/2024	2345
7440-02-0	Nickel	11		11/09/2024	2345
7782-49-2	Selenium	2.0	U	11/09/2024	2345
7440-22-4	Silver	0.055	J	11/09/2024	2345
7440-28-0	Thallium	0.066	J	11/09/2024	2345
7440-62-2	Vanadium	11		11/09/2024	2345
7440-66-6	Zinc	21		11/09/2024	2345

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

Comments:

EPA SAMPLE NO.

MBH6N2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-07

% Solids: 94.8 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.80	U	11/09/2024	2351
7440-38-2	Arsenic	1.6		11/09/2024	2351
7440-39-3	Barium	92		11/09/2024	2351
7440-41-7	Beryllium	0.62	JD	11/10/2024	0214
7440-43-9	Cadmium	0.40	U	11/09/2024	2351
7440-47-3	Chromium	8.0		11/09/2024	2351
7440-48-4	Cobalt	6.0		11/09/2024	2351
7440-50-8	Copper	150		11/09/2024	2351
7439-92-1	Lead	6.4		11/09/2024	2351
7439-96-5	Manganese	280		11/09/2024	2351
7440-02-0	Nickel	12		11/09/2024	2351
7782-49-2	Selenium	2.0	U	11/09/2024	2351
7440-22-4	Silver	0.080	J	11/09/2024	2351
7440-28-0	Thallium	0.068	J	11/09/2024	2351
7440-62-2	Vanadium	11		11/09/2024	2351
7440-66-6	Zinc	25		11/09/2024	2351

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

Comments:

EPA SAMPLE NO.

MBH6N3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-08

% Solids: 92.6 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.98	U	11/09/2024	2354
7440-38-2	Arsenic	1.6		11/09/2024	2354
7440-39-3	Barium	97		11/09/2024	2354
7440-41-7	Beryllium	0.57		11/09/2024	2354
7440-43-9	Cadmium	0.49	U	11/09/2024	2354
7440-47-3	Chromium	7.0		11/09/2024	2354
7440-48-4	Cobalt	5.3		11/09/2024	2354
7440-50-8	Copper	92		11/09/2024	2354
7439-92-1	Lead	6.2		11/09/2024	2354
7439-96-5	Manganese	280		11/09/2024	2354
7440-02-0	Nickel	10		11/09/2024	2354
7782-49-2	Selenium	2.5	U	11/09/2024	2354
7440-22-4	Silver	0.054	J	11/09/2024	2354
7440-28-0	Thallium	0.059	J	11/09/2024	2354
7440-62-2	Vanadium	11		11/09/2024	2354
7440-66-6	Zinc	21		11/09/2024	2354

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

Comments:

EPA SAMPLE NO.

MBH6N4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-09

% Solids: 95.9 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.74	U	11/09/2024	2357
7440-38-2	Arsenic	1.5		11/09/2024	2357
7440-39-3	Barium	95		11/09/2024	2357
7440-41-7	Beryllium	0.55		11/09/2024	2357
7440-43-9	Cadmium	0.37	U	11/09/2024	2357
7440-47-3	Chromium	7.8		11/09/2024	2357
7440-48-4	Cobalt	6.1		11/09/2024	2357
7440-50-8	Copper	100		11/09/2024	2357
7439-92-1	Lead	5.9		11/09/2024	2357
7439-96-5	Manganese	260		11/09/2024	2357
7440-02-0	Nickel	12		11/09/2024	2357
7782-49-2	Selenium	1.9	U	11/09/2024	2357
7440-22-4	Silver	0.092	J	11/09/2024	2357
7440-28-0	Thallium	0.055	J	11/09/2024	2357
7440-62-2	Vanadium	11		11/09/2024	2357
7440-66-6	Zinc	33		11/09/2024	2357

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

Comments:

EPA SAMPLE NO.

MBH6N5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-10

% Solids: 93 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.90	U	11/10/2024	0000
7440-38-2	Arsenic	1.7		11/10/2024	0000
7440-39-3	Barium	100		11/10/2024	0000
7440-41-7	Beryllium	0.59		11/10/2024	0000
7440-43-9	Cadmium	0.45	U	11/10/2024	0000
7440-47-3	Chromium	7.8		11/10/2024	0000
7440-48-4	Cobalt	6.4		11/10/2024	0000
7440-50-8	Copper	140		11/10/2024	0000
7439-92-1	Lead	6.8		11/10/2024	0000
7439-96-5	Manganese	320		11/10/2024	0000
7440-02-0	Nickel	13		11/10/2024	0000
7782-49-2	Selenium	2.2	U	11/10/2024	0000
7440-22-4	Silver	0.085	J	11/10/2024	0000
7440-28-0	Thallium	0.058	J	11/10/2024	0000
7440-62-2	Vanadium	11		11/10/2024	0000
7440-66-6	Zinc	25		11/10/2024	0000

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

Comments:

EPA SAMPLE NO.

MBH6N6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-11

% Solids: 93.5 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.79	U	11/10/2024	0003
7440-38-2	Arsenic	1.2		11/10/2024	0003
7440-39-3	Barium	80		11/10/2024	0003
7440-41-7	Beryllium	0.50		11/10/2024	0003
7440-43-9	Cadmium	0.40	U	11/10/2024	0003
7440-47-3	Chromium	6.3		11/10/2024	0003
7440-48-4	Cobalt	5.0		11/10/2024	0003
7440-50-8	Copper	280		11/10/2024	0003
7439-92-1	Lead	5.0		11/10/2024	0003
7439-96-5	Manganese	200		11/10/2024	0003
7440-02-0	Nickel	9.8		11/10/2024	0003
7782-49-2	Selenium	2.0	U	11/10/2024	0003
7440-22-4	Silver	0.12	J	11/10/2024	0003
7440-28-0	Thallium	0.048	J	11/10/2024	0003
7440-62-2	Vanadium	9.3		11/10/2024	0003
7440-66-6	Zinc	20		11/10/2024	0003

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

Comments:

EPA SAMPLE NO.

MBH6N7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-14

% Solids: 94.5 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.77	U	11/10/2024	0016
7440-38-2	Arsenic	1.4		11/10/2024	0016
7440-39-3	Barium	76		11/10/2024	0016
7440-41-7	Beryllium	0.51		11/10/2024	0016
7440-43-9	Cadmium	0.38	U	11/10/2024	0016
7440-47-3	Chromium	8.2		11/10/2024	0016
7440-48-4	Cobalt	6.1		11/10/2024	0016
7440-50-8	Copper	90		11/10/2024	0016
7439-92-1	Lead	5.6		11/10/2024	0016
7439-96-5	Manganese	430		11/10/2024	0016
7440-02-0	Nickel	12		11/10/2024	0016
7782-49-2	Selenium	1.9	U	11/10/2024	0016
7440-22-4	Silver	0.058	J	11/10/2024	0016
7440-28-0	Thallium	0.054	J	11/10/2024	0016
7440-62-2	Vanadium	12		11/10/2024	0016
7440-66-6	Zinc	28		11/10/2024	0016

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

Comments:

EPA SAMPLE NO.

MBH8M6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-06

% Solids: 95.2 Date Received: 10/29/2024

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-36-0	Antimony	0.85	U	11/09/2024	2348
7440-38-2	Arsenic	1.6		11/09/2024	2348
7440-39-3	Barium	95		11/09/2024	2348
7440-41-7	Beryllium	0.59	JD	11/10/2024	0210
7440-43-9	Cadmium	0.43	U	11/09/2024	2348
7440-47-3	Chromium	7.4		11/09/2024	2348
7440-48-4	Cobalt	5.7		11/09/2024	2348
7440-50-8	Copper	120		11/09/2024	2348
7439-92-1	Lead	6.6		11/09/2024	2348
7439-96-5	Manganese	270		11/09/2024	2348
7440-02-0	Nickel	11		11/09/2024	2348
7782-49-2	Selenium	2.1	U	11/09/2024	2348
7440-22-4	Silver	0.11	J	11/09/2024	2348
7440-28-0	Thallium	0.068	J	11/09/2024	2348
7440-62-2	Vanadium	11		11/09/2024	2348
7440-66-6	Zinc	28		11/09/2024	2348

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

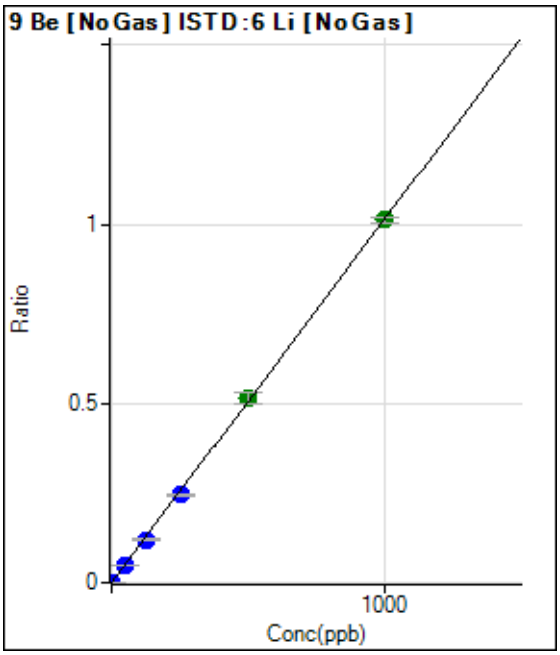
Comments:

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

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Analysis File: P7110824MS3.batch.bin
DA Date-Time: 2024-11-11 00:28:03
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
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2	006CALS.d	S02	2024-11-09 21:59:47
3	007CALS.d	S03	2024-11-09 22:03:02
4	008CALS.d	S04	2024-11-09 22:05:57
5	009CALS.d	S05	2024-11-09 22:08:41
6	010CALS.d	S06	2024-11-09 22:11:27
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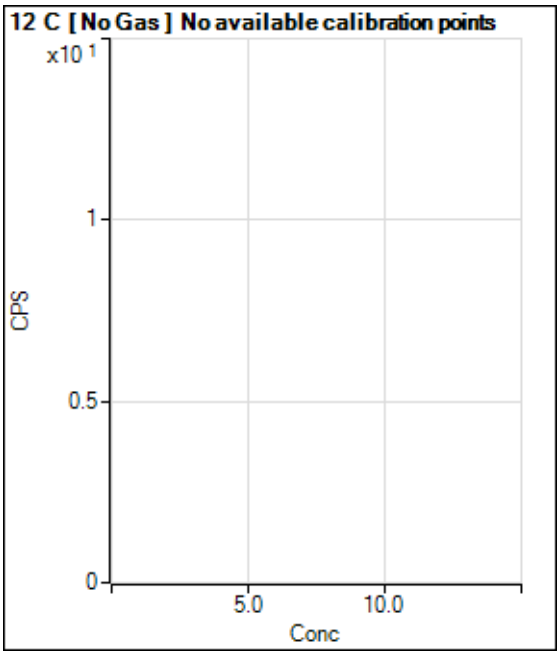
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On:11/11/2024 4:27:25 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.52	0.0000	P	45.0
2	☐	1.000	1.030	2602.11	0.0011	P	6.9
3	☐	50.000	49.020	119090.91	0.0497	P	1.7
4	☐	125.000	118.053	293322.73	0.1197	P	5.1
5	☐	250.000	242.164	576488.33	0.2455	P	1.3
6	☐	500.000	508.090	1111636.19	0.5150	A	5.7
7	☐	1000.000	998.832	2114640.24	1.0124	A	1.4
8	☐			333.34	0.0002	P	32.9

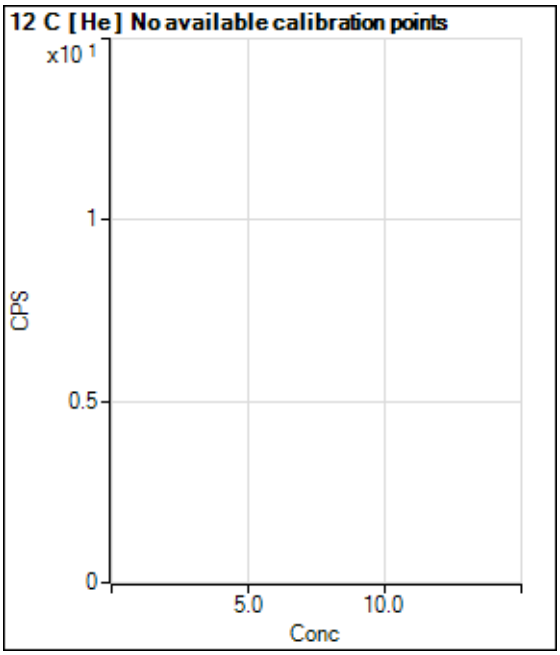
y = 0.0010 * x + 7.7362E-006
R = 0.9999
DL = 0.01031
BEC = 0.007633

Weight: <None>
Min Conc: 0

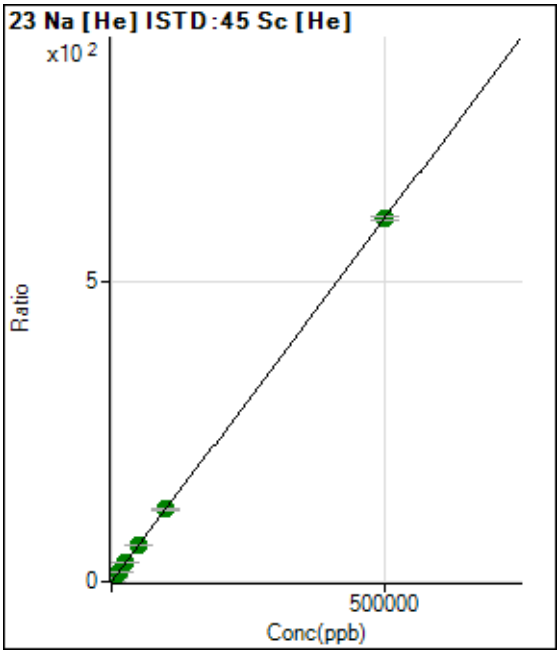


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

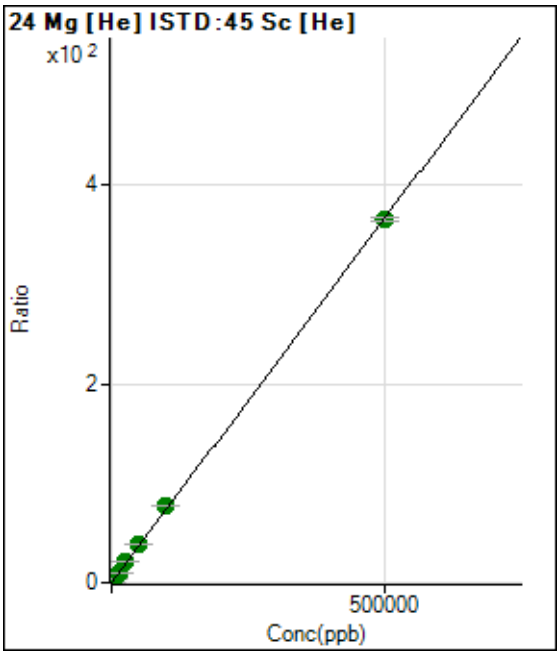


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32007.72	0.0259	P	1.8
2	☐	500.000	511.046	805846.99	0.6449	P	0.8
3	☐	5000.000	5430.628	7888091.34	6.6038	A	0.2
4	☐	12500.000	13574.144	19606182.63	16.4678	A	0.3
5	☐	25000.000	26966.052	39002927.75	32.6888	A	0.9
6	☐	50000.000	51072.762	77045578.85	61.8883	A	0.9
7	☐	100000.00	99779.506	153282326.61	120.8849	A	1.9
8	☐	500000.00	499807.34	771032335.18	605.4227	A	0.9

y = 0.0012 * x + 0.0259
R = 1.0000
DL = 1.185
BEC = 21.41

Weight: <None>
Min Conc: 0

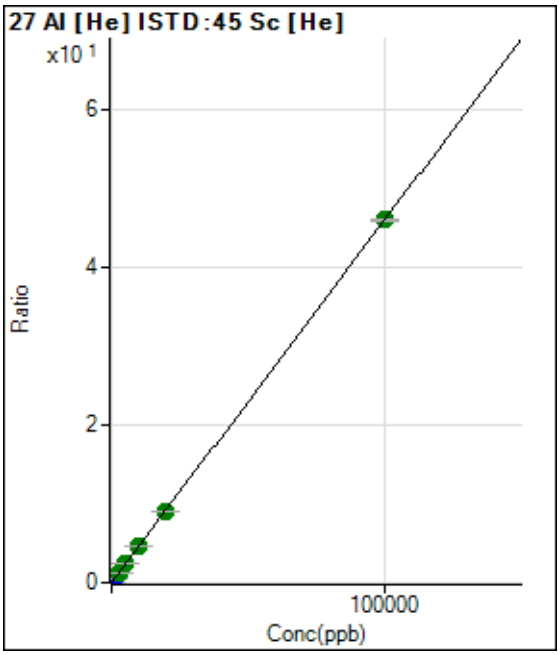
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1	☐	0.000	0.000	2783.61	0.0023	P	1.6
2	☐	500.000	553.650	509297.46	0.4076	P	0.7
3	☐	5000.000	5622.070	4919187.22	4.1184	A	1.0
4	☐	12500.000	14248.615	12422725.79	10.4343	A	0.7
5	☐	25000.000	28163.391	24605225.74	20.6219	A	1.1
6	☐	50000.000	53295.615	48579468.17	39.0222	A	0.8
7	☐	100000.00	106403.35	98788236.31	77.9046	A	0.9
8	☐	500000.00	498181.60	464541673.08	364.7419	A	0.9

y = 7.3214E-004 * x + 0.0023
R = 0.9999
DL = 0.1468
BEC = 3.081

Weight: <None>
Min Conc: 0

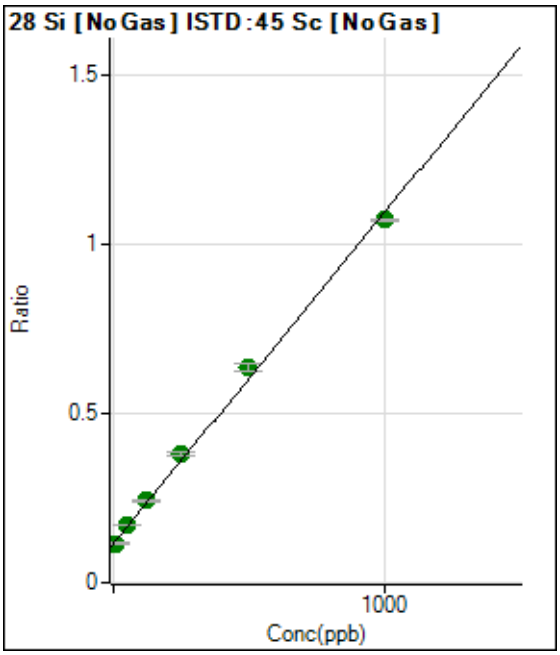


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1	☐	0.000	0.000	227.78	0.0002	P	6.6
2	☐	20.000	19.834	11625.59	0.0093	P	0.9
3	☐	1000.000	1125.754	618517.03	0.5178	P	0.6
4	☐	2500.000	2627.812	1438783.36	1.2085	A	0.9
5	☐	5000.000	5267.602	2890188.95	2.4223	A	1.1
6	☐	10000.000	9911.741	5674075.75	4.5578	A	0.5
7	☐	20000.000	19559.843	11405329.00	8.9941	A	0.9
8	☐	100000.00	100079.02	58605606.90	46.0181	A	0.8

y = 4.5982E-004 * x + 1.8459E-004
R = 1.0000
DL = 0.07906
BEC = 0.4014

Weight: <None>
Min Conc: 0

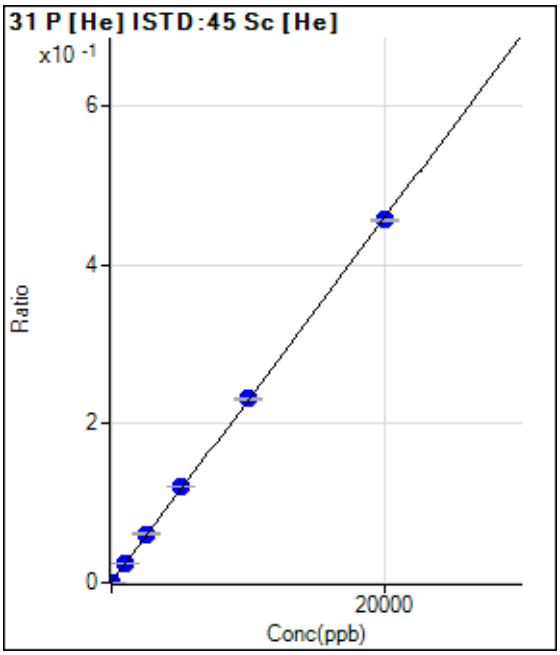
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1454527.79	0.1130	A	0.3
2	☐	10.000	3.034	1505496.40	0.1160	A	1.5
3	☐	50.000	59.861	2137123.99	0.1719	A	1.3
4	☐	125.000	131.855	3116328.25	0.2427	A	3.2
5	☐	250.000	273.459	4748556.14	0.3819	A	2.2
6	☐	500.000	533.689	7999244.40	0.6378	A	3.6
7	☐	1000.000	976.010	13781772.57	1.0728	A	0.5
8	☐			1627939.66	0.1384	A	2.2

y = 9.8333E-004 * x + 0.1130
R = 0.9987
DL = 1.196
BEC = 115

Weight: <None>
Min Conc: 0

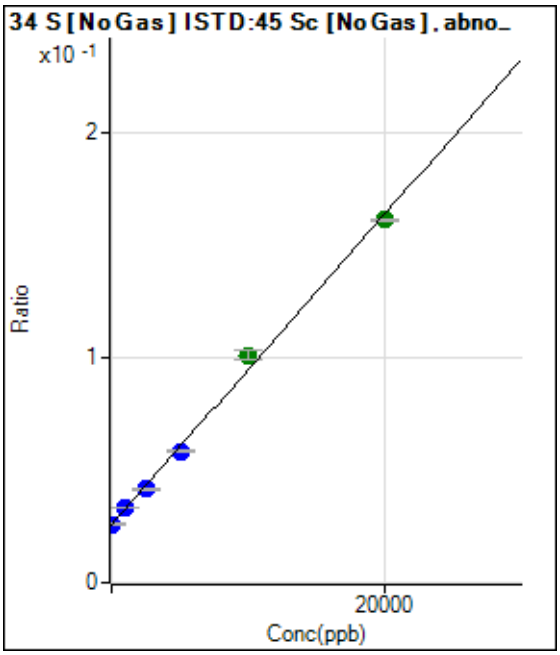


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.724	476.68	0.0004	P	5.3
2	☐	0.000	14.724	1325.63	0.0011	P	1.4
3	☐	1000.000	1052.144	29653.23	0.0248	P	2.0
4	☐	2500.000	2657.808	73348.92	0.0616	P	0.8
5	☐	5000.000	5273.569	145005.86	0.1215	P	0.8
6	☐	10000.000	10056.515	287700.30	0.2311	P	0.5
7	☐	20000.000	19881.017	578445.23	0.4562	P	0.8
8	☐			808.92	0.0006	P	10.1

y = 2.2908E-005 * x + 7.2359E-004
R = 0.9999
DL = 2.313
BEC = 31.59

Weight: <None>
Min Conc: 0

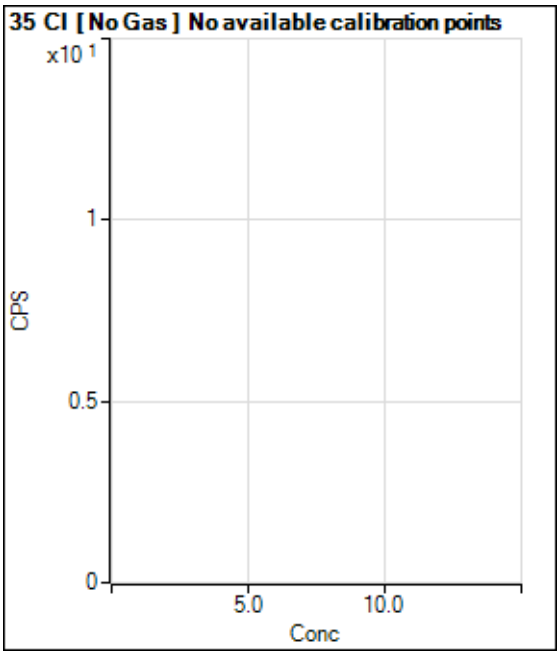
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-29.884	329736.50	0.0256	P	0.6
2	☐	0.000	29.884	337888.32	0.0260	P	0.7
3	☐	1000.000	1083.129	414043.10	0.0333	P	2.0
4	☐	2500.000	2293.655	534969.12	0.0417	P	2.7
5	☐	5000.000	4719.685	726040.56	0.0584	P	0.8
6	☐	10000.000	10911.705	1268238.84	0.1011	A	3.8
7	☐	20000.000	19635.863	2072582.36	0.1613	A	0.4
8	☐			265050.76	0.0225	P	3.0

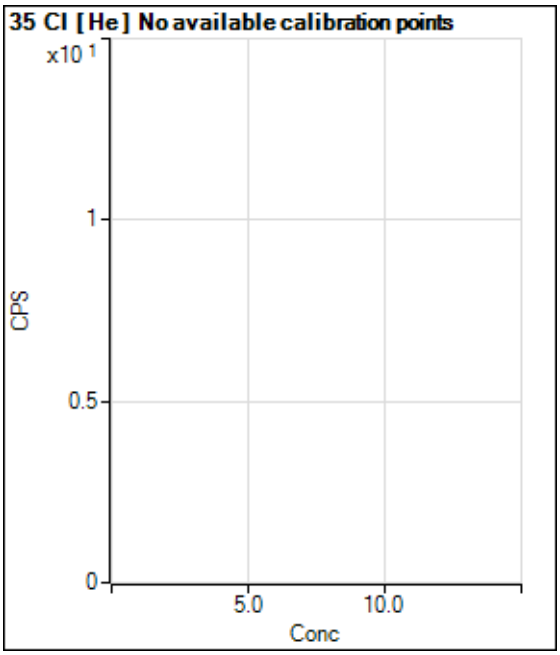
y = 6.9004E-006 * x + 0.0258
R = 0.9983
DL = 73.41
BEC = 3744

Weight: <None>
Min Conc: 0

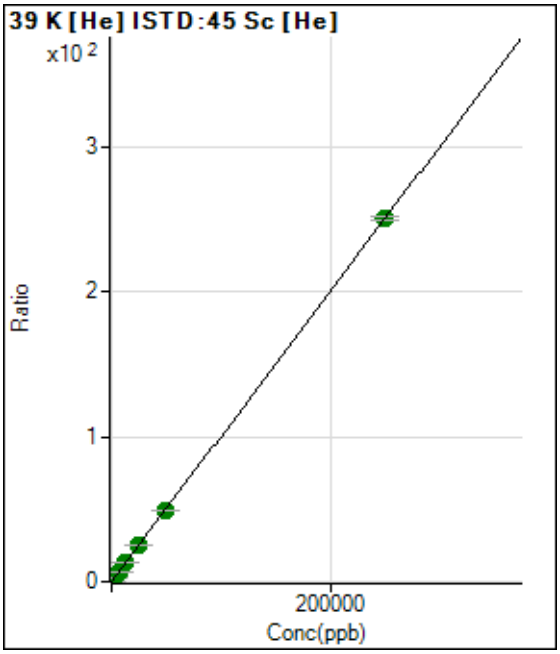


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

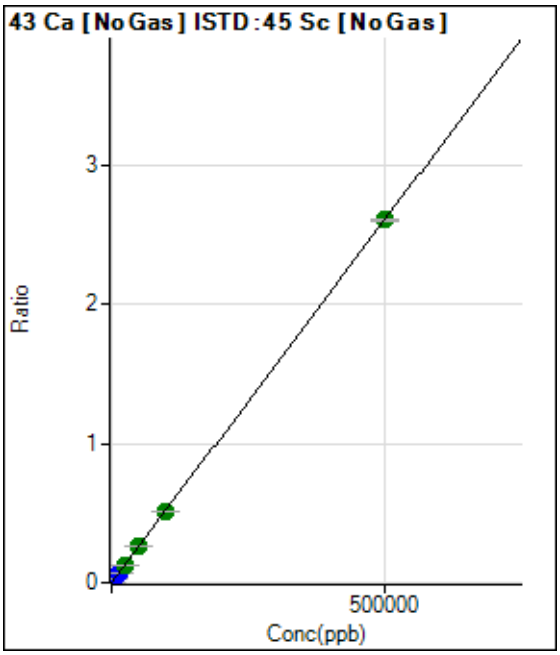


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	89847.39	0.0728	P	0.5
2	☐	500.000	514.736	733204.16	0.5868	P	0.8
3	☐	2500.000	2547.648	3125635.30	2.6168	A	0.7
4	☐	6250.000	6347.393	7632715.37	6.4111	A	1.2
5	☐	12500.000	12861.089	15410311.85	12.9154	A	0.5
6	☐	25000.000	24749.187	30857602.87	24.7865	A	0.1
7	☐	50000.000	48795.310	61879619.08	48.7981	A	0.9
8	☐	250000.00	250245.02	318344844.14	249.9587	A	1.1

y = 9.9856E-004 * x + 0.0728
R = 1.0000
DL = 1.171
BEC = 72.92

Weight: <None>
Min Conc: 0

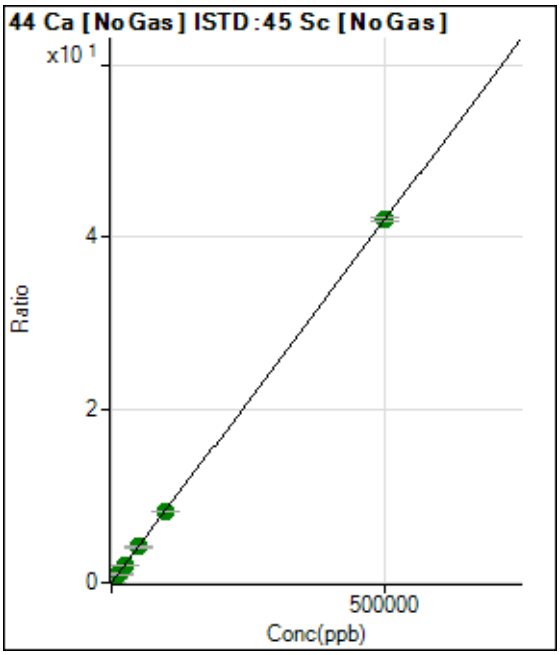
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	823.37	0.0001	P	32.3
2	☐	500.000	516.952	35765.45	0.0028	P	1.1
3	☐	5000.000	5114.975	331899.36	0.0267	P	3.2
4	☐	12500.000	12454.030	833556.75	0.0649	P	3.9
5	☐	25000.000	24830.623	1608470.93	0.1294	A	2.4
6	☐	50000.000	50127.137	3274726.38	0.2611	A	3.6
7	☐	100000.00	98570.122	6595722.05	0.5134	A	1.1
8	☐	500000.00	500281.71	30666555.66	2.6055	A	0.9

y = 5.2079E-006 * x + 6.4058E-005
R = 1.0000
DL = 11.9
BEC = 12.3

Weight: <None>
Min Conc: 0

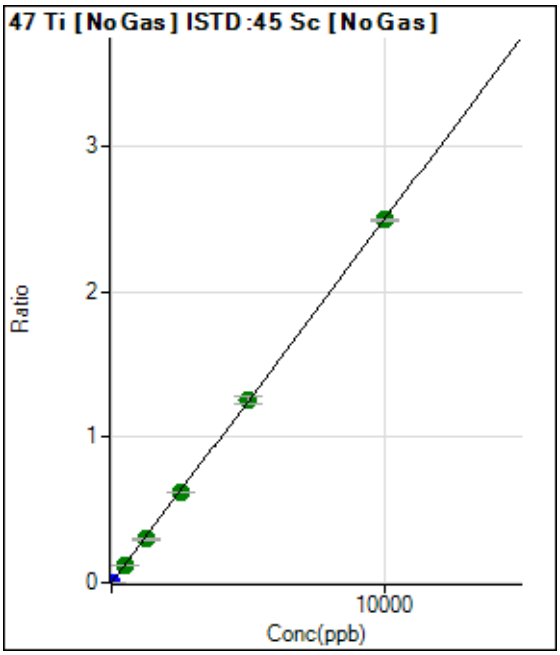


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42052.17	0.0033	P	9.6
2	☐	500.000	517.232	606411.92	0.0467	P	0.2
3	☐	5000.000	4882.663	5140825.03	0.4136	A	2.7
4	☐	12500.000	11982.319	12970570.64	1.0102	A	3.3
5	☐	25000.000	24883.073	26035846.00	2.0942	A	1.5
6	☐	50000.000	49966.228	52693763.66	4.2020	A	4.1
7	☐	100000.00	99134.243	107062527.29	8.3337	A	0.3
8	☐	500000.00	500196.47	494708010.41	42.0357	A	1.1

y = 8.4032E-005 * x + 0.0033
R = 1.0000
DL = 11.18
BEC = 38.91

Weight: <None>
Min Conc: 0

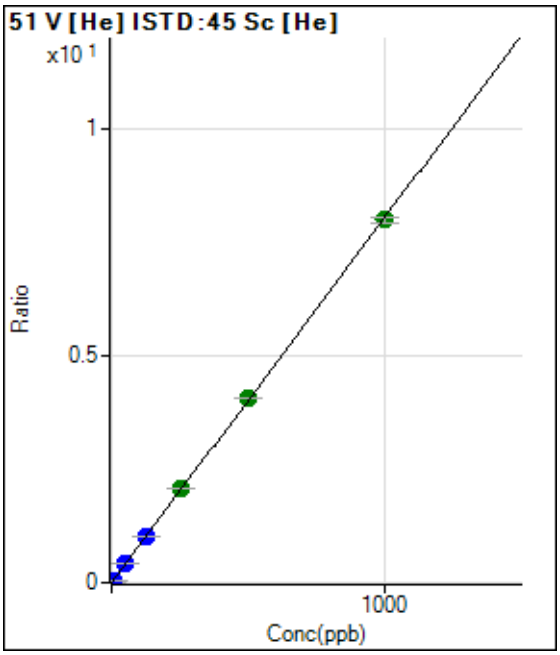
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.12	0.0000	P	18.2
2	☐	5.000	4.899	16051.93	0.0012	P	1.2
3	☐	500.000	495.816	1539516.47	0.1239	A	2.7
4	☐	1250.000	1208.299	3874881.85	0.3018	A	4.0
5	☐	2500.000	2489.368	7730112.66	0.6218	A	0.6
6	☐	5000.000	5042.799	15793078.93	1.2595	A	4.6
7	☐	10000.000	9986.680	32044549.52	2.4944	A	0.5
8	☐			3966.23	0.0003	P	49.0

y = 2.4977E-004 * x + 1.3309E-005
R = 1.0000
DL = 0.02917
BEC = 0.05329

Weight: <None>
Min Conc: 0

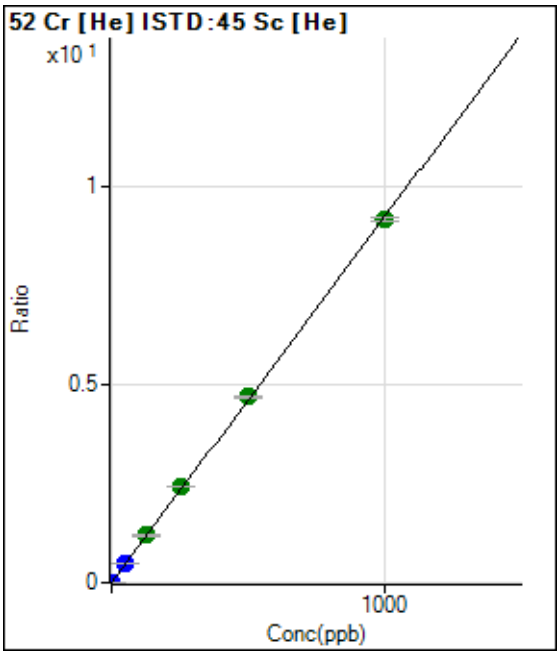


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.55	0.0000	P	27.1
2	☐	5.000	5.095	51311.27	0.0411	P	1.4
3	☐	50.000	50.693	487793.97	0.4084	P	1.0
4	☐	125.000	126.644	1214641.95	1.0202	P	0.5
5	☐	250.000	258.530	2484988.92	2.0826	A	0.5
6	☐	500.000	506.257	5077044.96	4.0782	A	0.8
7	☐	1000.000	994.498	10158675.89	8.0113	A	1.5
8	☐			1894.58	0.0015	P	3.6

y = 0.0081 * x + 2.0707E-005
R = 0.9999
DL = 0.002092
BEC = 0.002571

Weight: <None>
Min Conc: 0

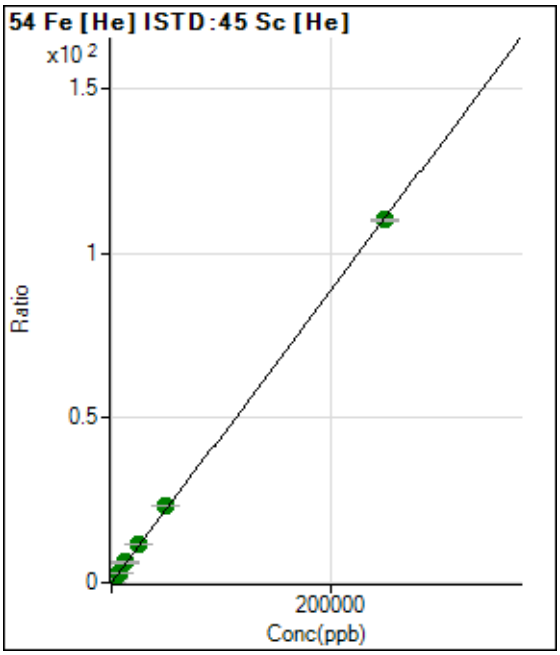
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1526.76	0.0012	P	2.2
2	☐	2.000	2.094	25656.31	0.0205	P	1.1
3	☐	50.000	51.600	569416.09	0.4767	P	0.7
4	☐	125.000	129.088	1417731.16	1.1908	A	0.6
5	☐	250.000	264.105	2905314.75	2.4349	A	0.4
6	☐	500.000	507.416	5822516.30	4.6770	A	0.4
7	☐	1000.000	992.174	11595073.85	9.1439	A	1.0
8	☐			36442.90	0.0286	P	0.1

y = 0.0092 * x + 0.0012
R = 0.9998
DL = 0.008918
BEC = 0.1343

Weight: <None>
Min Conc: 0

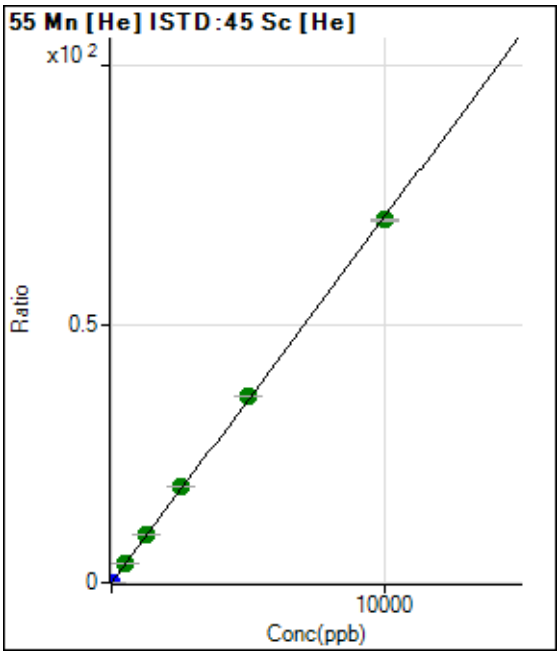


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5046.46	0.0041	P	3.2
2	☐	50.000	56.680	36408.43	0.0291	P	1.9
3	☐	2500.000	2758.309	1460963.83	1.2232	A	1.5
4	☐	6250.000	6869.678	3619603.66	3.0402	A	0.5
5	☐	12500.000	13872.238	7320160.79	6.1351	A	0.7
6	☐	25000.000	26929.168	14821990.33	11.9057	A	0.7
7	☐	50000.000	52389.939	29367300.12	23.1584	A	0.6
8	☐	250000.00	249242.40	140296129.02	110.1594	A	0.7

y = 4.4196E-004 * x + 0.0041
R = 0.9999
DL = 0.8853
BEC = 9.253

Weight: <None>
Min Conc: 0

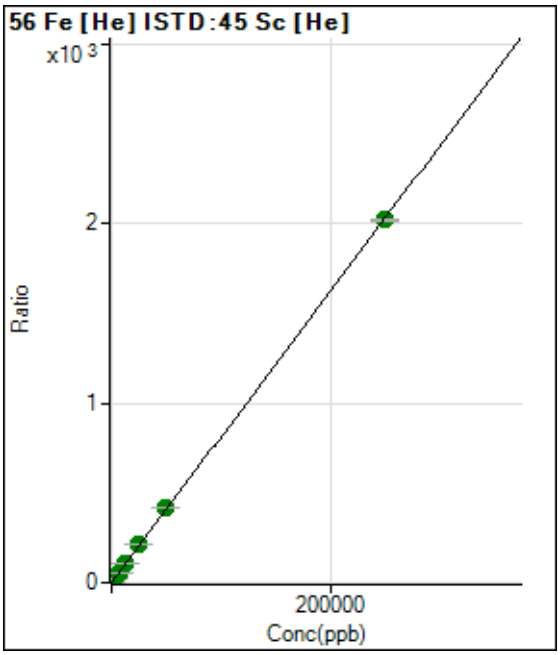
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	577.79	0.0005	P	17.4
2	☐	1.000	1.043	9804.36	0.0078	P	0.6
3	☐	500.000	514.782	4349140.11	3.6412	A	1.3
4	☐	1250.000	1290.690	10868532.34	9.1287	A	0.1
5	☐	2500.000	2625.894	22159297.45	18.5717	A	0.7
6	☐	5000.000	5086.834	44788084.33	35.9763	A	0.3
7	☐	10000.000	9919.284	88962822.01	70.1531	A	0.8
8	☐			43803.50	0.0344	P	1.4

y = 0.0071 * x + 4.6826E-004
R = 0.9999
DL = 0.03466
BEC = 0.06621

Weight: <None>
Min Conc: 0

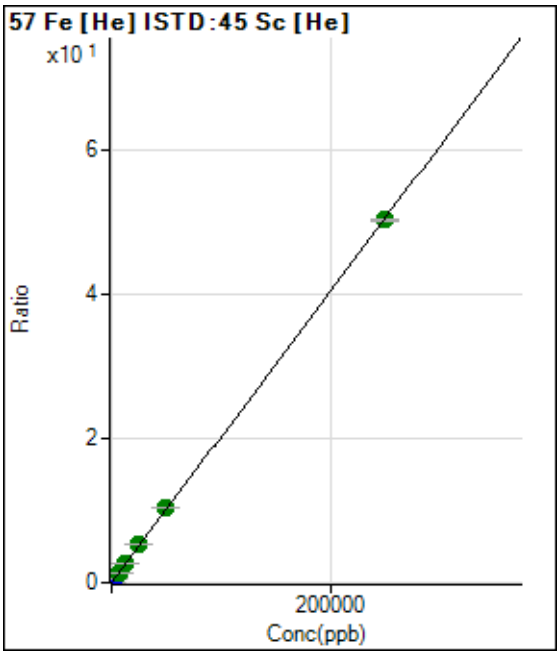


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33817.98	0.0274	P	1.2
2	☐	50.000	55.726	597587.19	0.4783	P	0.9
3	☐	2500.000	2714.441	26264938.50	21.9893	A	0.9
4	☐	6250.000	6798.637	65523116.25	55.0336	A	0.3
5	☐	12500.000	13665.662	131956302.48	110.5930	A	0.7
6	☐	25000.000	26597.348	267934538.23	215.2202	A	0.3
7	☐	50000.000	51729.475	530772325.42	418.5583	A	0.8
8	☐	250000.00	249420.22	2570083463.9	2,018.027	A	0.6

y = 0.0081 * x + 0.0274
R = 1.0000
DL = 0.1173
BEC = 3.387

Weight: <None>
Min Conc: 0

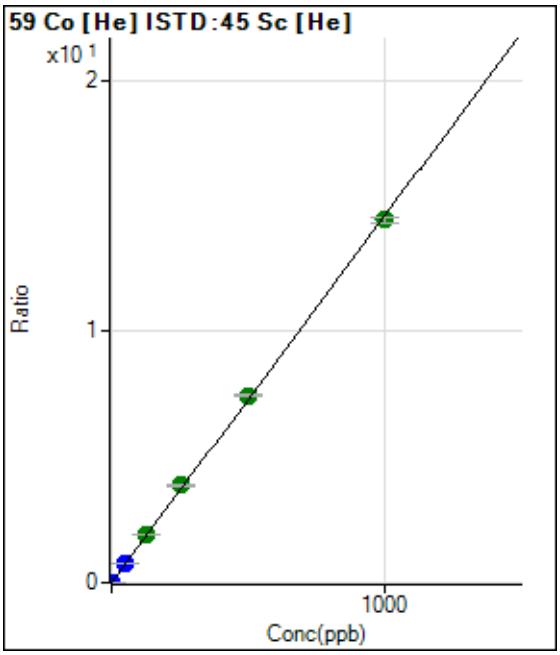
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2152.40	0.0017	P	1.7
2	☐	50.000	57.499	16688.23	0.0134	P	1.8
3	☐	2500.000	2800.095	677505.70	0.5672	P	1.0
4	☐	6250.000	6755.913	1626444.66	1.3661	A	1.3
5	☐	12500.000	13677.288	3297689.08	2.7638	A	1.0
6	☐	25000.000	26344.480	6625519.76	5.3220	A	0.5
7	☐	50000.000	51481.655	13185164.53	10.3983	A	1.8
8	☐	250000.00	249494.70	64173511.82	50.3866	A	0.3

y = 2.0195E-004 * x + 0.0017
R = 1.0000
DL = 0.4363
BEC = 8.637

Weight: <None>
Min Conc: 0

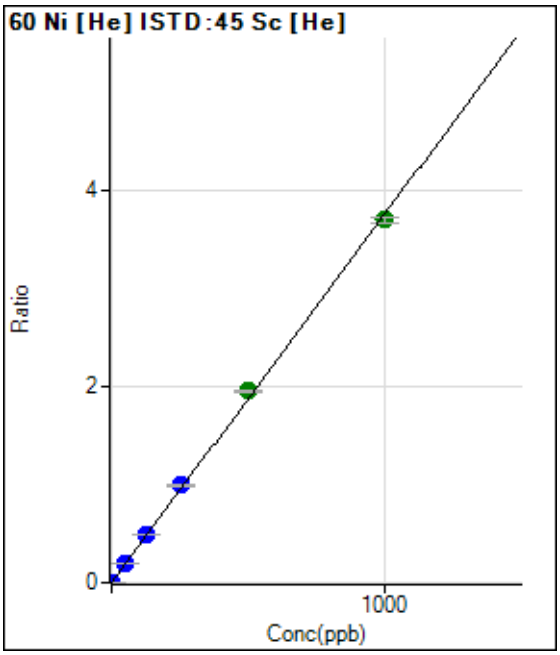


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0001	P	18.6
2	☐	1.000	1.089	20011.24	0.0160	P	2.0
3	☐	50.000	51.981	905408.69	0.7580	P	0.6
4	☐	125.000	131.187	2277362.26	1.9128	A	0.9
5	☐	250.000	265.769	4623510.62	3.8750	A	1.1
6	☐	500.000	510.630	9268754.10	7.4451	A	0.7
7	☐	1000.000	989.870	18300475.70	14.4323	A	1.7
8	☐			47068.09	0.0370	P	0.9

y = 0.0146 * x + 1.3957E-004
R = 0.9998
DL = 0.005331
BEC = 0.009572

Weight: <None>
Min Conc: 0

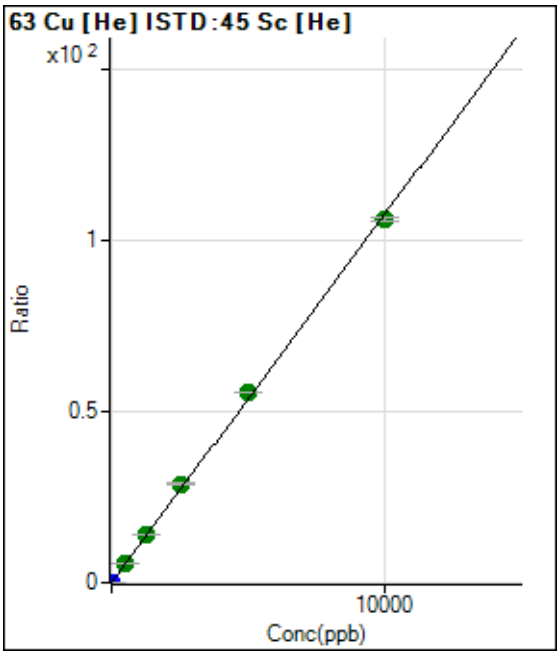
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.12	0.0001	P	2.6
2	☐	1.000	1.085	5233.19	0.0042	P	2.4
3	☐	50.000	53.227	238445.00	0.1996	P	0.7
4	☐	125.000	131.959	589013.91	0.4947	P	0.4
5	☐	250.000	264.011	1180871.93	0.9897	P	0.4
6	☐	500.000	519.991	2426532.03	1.9491	A	0.5
7	☐	1000.000	985.470	4683974.89	3.6938	A	1.3
8	☐			17728.37	0.0139	P	1.7

y = 0.0037 * x + 1.2246E-004
R = 0.9996
DL = 0.002513
BEC = 0.03267

Weight: <None>
Min Conc: 0

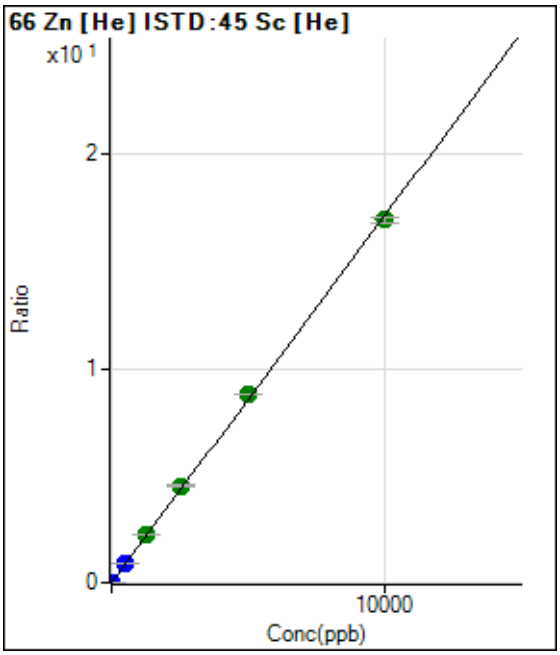


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1761.23	0.0014	P	1.5
2	☐	2.000	2.045	29235.21	0.0234	P	1.3
3	☐	500.000	534.440	6860136.50	5.7434	A	0.9
4	☐	1250.000	1328.234	16991716.00	14.2718	A	0.2
5	☐	2500.000	2683.790	34405604.76	28.8356	A	0.8
6	☐	5000.000	5166.396	69104316.19	55.5084	A	0.2
7	☐	10000.000	9859.353	134324011.33	105.9288	A	1.1
8	☐			115947.98	0.0910	P	1.1

y = 0.0107 * x + 0.0014
R = 0.9996
DL = 0.005993
BEC = 0.1328

Weight: <None>
Min Conc: 0

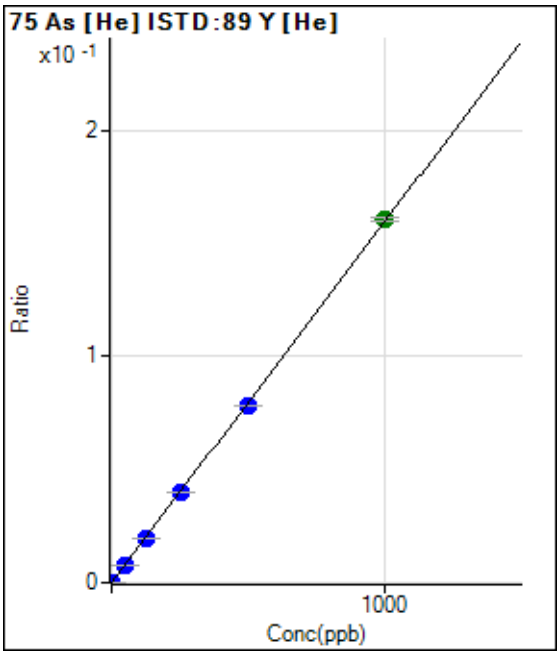
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	918.93	0.0007	P	7.2
2	☐	2.000	5.428	12532.01	0.0100	P	2.4
3	☐	500.000	528.058	1079830.81	0.9040	P	0.8
4	☐	1250.000	1309.615	2668030.65	2.2410	A	1.1
5	☐	2500.000	2640.125	5389439.71	4.5170	A	0.9
6	☐	5000.000	5123.954	10912852.62	8.7658	A	0.4
7	☐	10000.000	9894.136	21462586.07	16.9257	A	1.3
8	☐			11176.48	0.0088	P	0.7

y = 0.0017 * x + 7.4468E-004
R = 0.9998
DL = 0.09379
BEC = 0.4353

Weight: <None>
Min Conc: 0

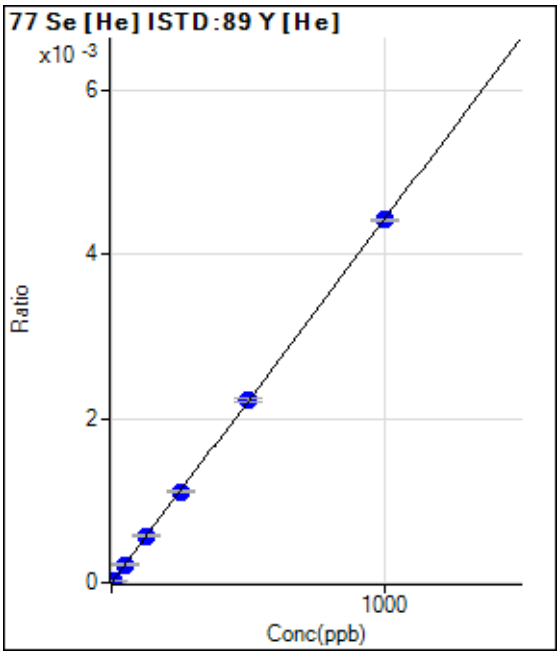


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	87.4
2	☐	1.000	1.076	1662.33	0.0002	P	1.4
3	☐	50.000	49.672	72839.69	0.0079	P	0.9
4	☐	125.000	122.995	182177.34	0.0196	P	0.6
5	☐	250.000	248.836	373127.29	0.0397	P	0.3
6	☐	500.000	490.261	760176.65	0.0782	P	0.9
7	☐	1000.000	1005.428	1556686.45	0.1603	A	0.9
8	☐			834.48	0.0001	P	4.5

y = 1.5946E-004 * x + 1.5279E-006
R = 0.9999
DL = 0.02511
BEC = 0.009582

Weight: <None>
Min Conc: 0

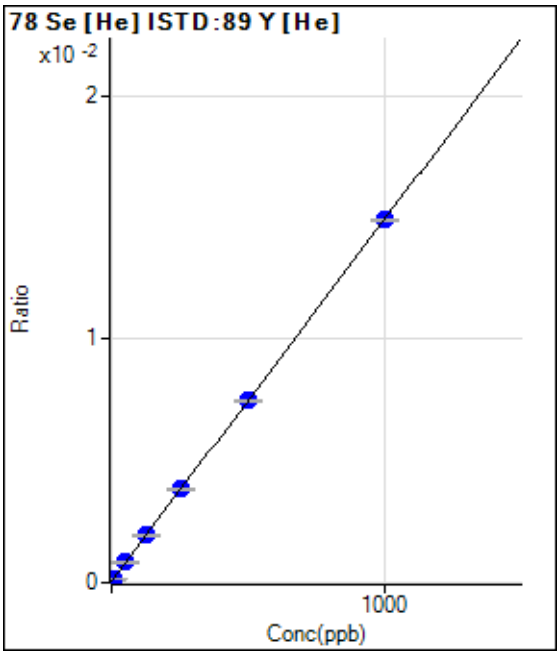
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.670	242.23	0.0000	P	7.4
3	☐	50.000	49.479	2014.60	0.0002	P	3.9
4	☐	125.000	129.467	5324.33	0.0006	P	0.7
5	☐	250.000	250.305	10420.41	0.0011	P	2.1
6	☐	500.000	502.089	21613.64	0.0022	P	2.8
7	☐	1000.000	998.344	42911.88	0.0044	P	0.2
8	☐			14.44	0.0000	P	80.4

y = 4.4267E-006 * x + 1.1746E-007
R = 1.0000
DL = 0.1379
BEC = 0.02654

Weight: <None>
Min Conc: 0

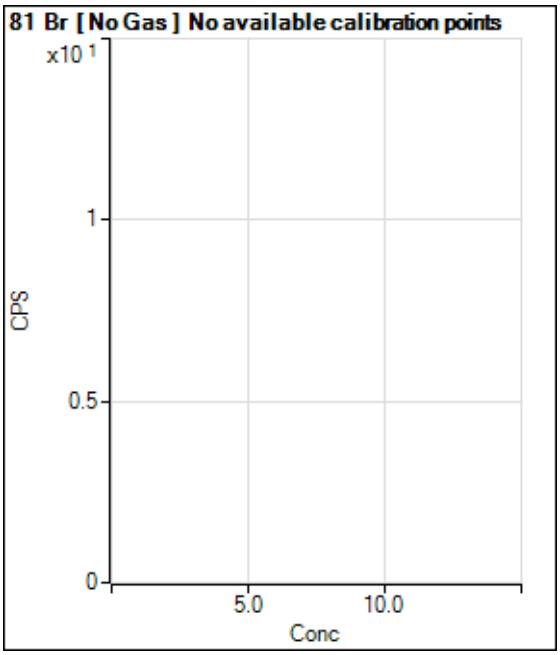


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	567.80	0.0001	P	4.8
2	☐	5.000	5.449	1351.18	0.0001	P	1.2
3	☐	50.000	51.873	7633.14	0.0008	P	1.8
4	☐	125.000	127.166	18094.49	0.0019	P	1.6
5	☐	250.000	254.376	36081.73	0.0038	P	2.5
6	☐	500.000	499.383	72691.47	0.0075	P	1.1
7	☐	1000.000	998.848	144607.88	0.0149	P	0.4
8	☐			745.59	0.0001	P	11.8

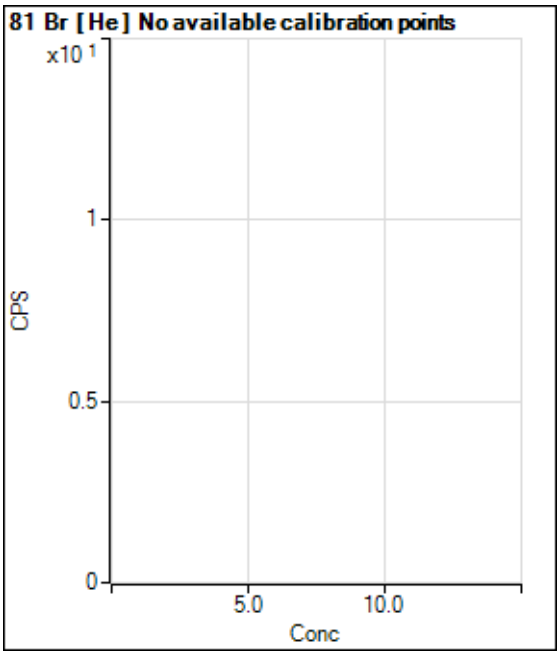
y = 1.4850E-005 * x + 5.9768E-005
R = 1.0000
DL = 0.5736
BEC = 4.025

Weight: <None>
Min Conc: 0

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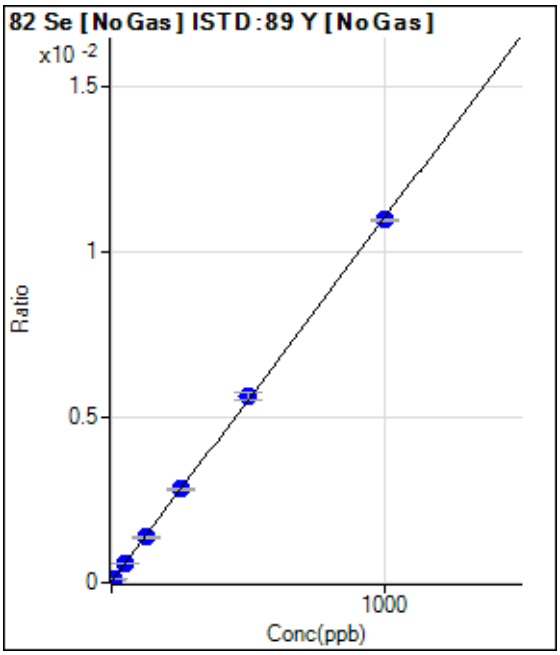


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			12919.06		P	1.5
2	☐			13074.77		P	1.0
3	☐			12840.13		P	0.6
4	☐			13163.77		P	2.3
5	☐			13646.41		P	1.8
6	☐			14963.24		P	0.9
7	☐			15554.98		P	1.7
8	☐			17387.02		P	3.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			187.78		P	19.6
2	☐			131.11		P	16.9
3	☐			108.89		P	9.8
4	☐			115.56		P	6.7
5	☐			118.89		P	19.9
6	☐			137.78		P	30.4
7	☐			137.78		P	17.5
8	☐			326.68		P	12.8

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1210.80	0.0000	P	1.8
2	☐	5.000	5.284	3278.72	0.0001	P	1.2
3	☐	50.000	50.670	19899.65	0.0006	P	2.8
4	☐	125.000	122.588	48501.16	0.0014	P	4.2
5	☐	250.000	254.418	95726.46	0.0028	P	0.9
6	☐	500.000	509.522	194419.65	0.0056	P	3.8
7	☐	1000.000	994.401	392730.81	0.0110	P	0.5
8	☐			1218.75	0.0000	P	1.9

y = 1.1004E-005 * x + 3.5046E-005

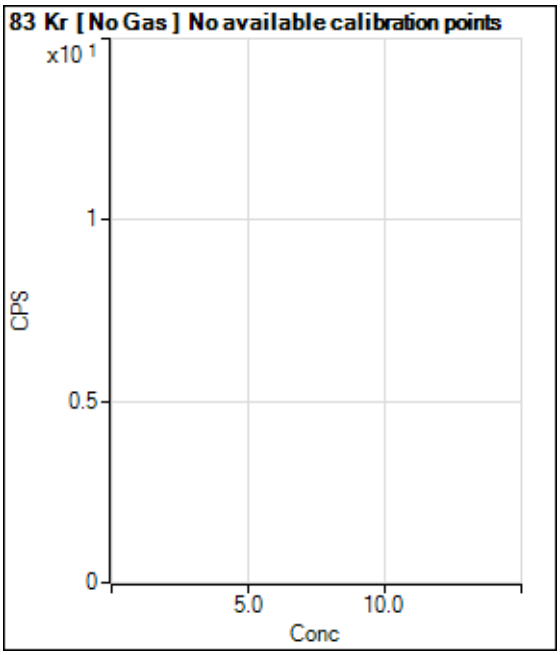
R = 0.9999

DL = 0.17

BEC = 3.185

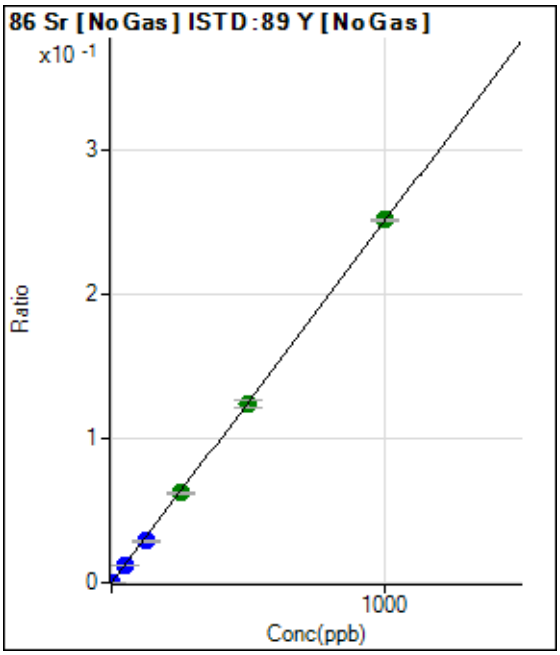
Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			444.45		P	4.3
2	☐			485.57		P	2.4
3	☐			460.01		P	18.8
4	☐			461.12		P	6.9
5	☐			467.79		P	8.0
6	☐			541.13		P	4.5
7	☐			542.24		P	5.8
8	☐			590.02		P	3.1

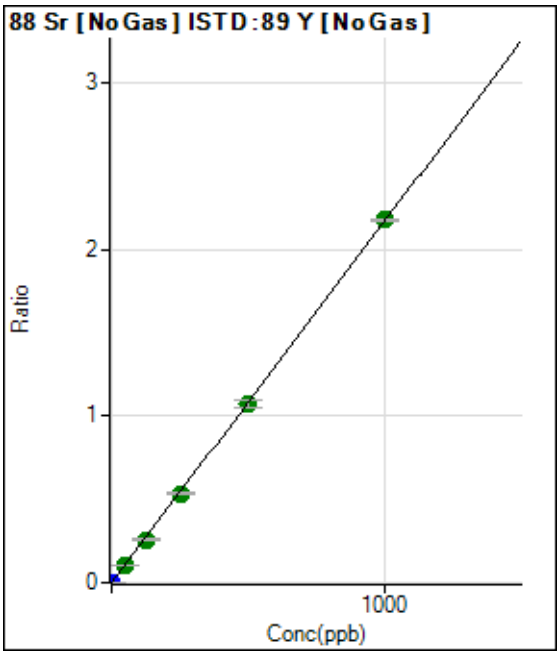
Reviewed By:jaswal
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	807.81	0.0000	P	8.4
2	☐	1.000	0.966	9344.17	0.0003	P	4.1
3	☐	50.000	48.014	404945.16	0.0121	P	3.5
4	☐	125.000	115.766	1017817.83	0.0290	P	4.4
5	☐	250.000	248.000	2100354.17	0.0622	A	1.0
6	☐	500.000	494.967	4277205.52	0.1241	A	3.7
7	☐	1000.000	1004.270	9008325.84	0.2518	A	0.4
8	☐			23629.02	0.0007	P	5.1

y = 2.5070E-004 * x + 2.3383E-005
R = 0.9999
DL = 0.02337
BEC = 0.09327

Weight: <None>
Min Conc: 0

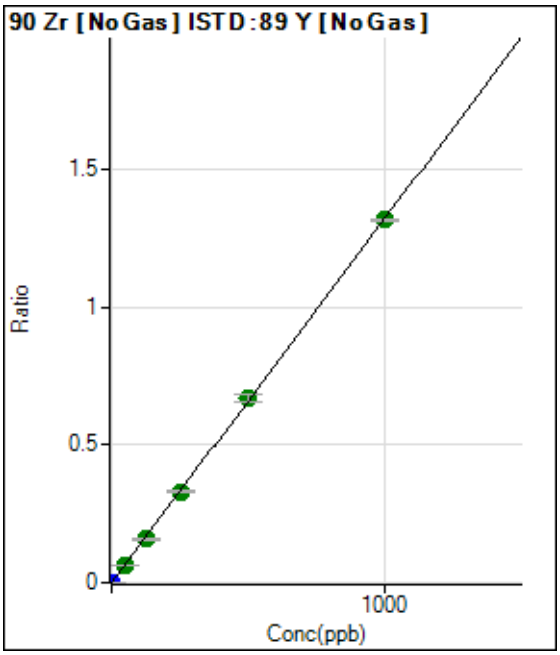


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	478.90	0.0000	P	23.0
2	☐	1.000	0.954	73263.42	0.0021	P	0.3
3	☐	50.000	48.915	3560381.82	0.1060	A	2.4
4	☐	125.000	118.016	8962530.01	0.2558	A	4.8
5	☐	250.000	246.887	18069884.45	0.5351	A	1.3
6	☐	500.000	495.183	36980463.62	1.0732	A	4.3
7	☐	1000.000	1004.114	77859298.84	2.1762	A	0.5
8	☐			200477.13	0.0063	P	2.7

y = 0.0022 * x + 1.3863E-005
R = 1.0000
DL = 0.004422
BEC = 0.006397

Weight: <None>
Min Conc: 0

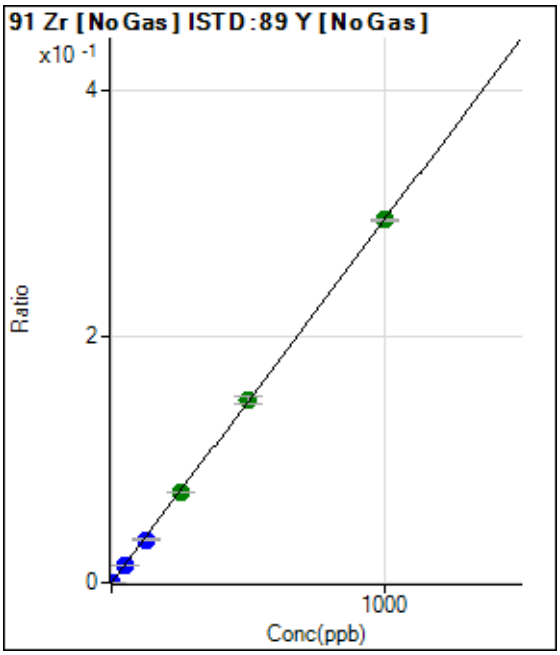
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1381.19	0.0000	P	1.4
2	☐	1.000	0.976	46738.54	0.0013	P	0.2
3	☐	50.000	49.488	2195121.79	0.0654	A	2.0
4	☐	125.000	119.845	5544569.92	0.1582	A	4.8
5	☐	250.000	250.659	11175055.39	0.3309	A	1.9
6	☐	500.000	505.844	23012809.10	0.6678	A	4.0
7	☐	1000.000	997.583	47114938.18	1.3169	A	0.3
8	☐			38657.64	0.0012	P	8.9

y = 0.0013 * x + 3.9978E-005
R = 1.0000
DL = 0.001241
BEC = 0.03028

Weight: <None>
Min Conc: 0

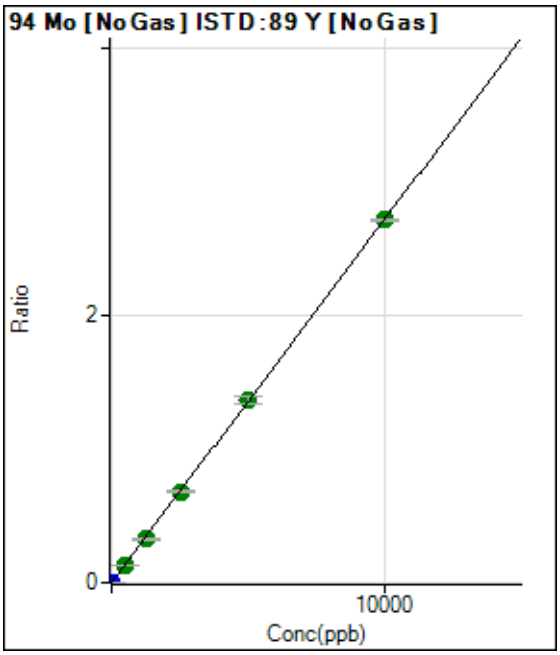


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0000	P	16.4
2	☐	1.000	0.957	10172.49	0.0003	P	1.0
3	☐	50.000	48.962	484779.30	0.0144	P	3.1
4	☐	125.000	118.303	1221922.92	0.0349	P	5.0
5	☐	250.000	250.887	2497283.37	0.0740	A	0.2
6	☐	500.000	501.896	5097292.60	0.1479	A	4.7
7	☐	1000.000	999.719	10542040.19	0.2947	A	0.5
8	☐			8724.89	0.0003	P	11.4

y = 2.9474E-004 * x + 7.1081E-006
R = 1.0000
DL = 0.01188
BEC = 0.02412

Weight: <None>
Min Conc: 0

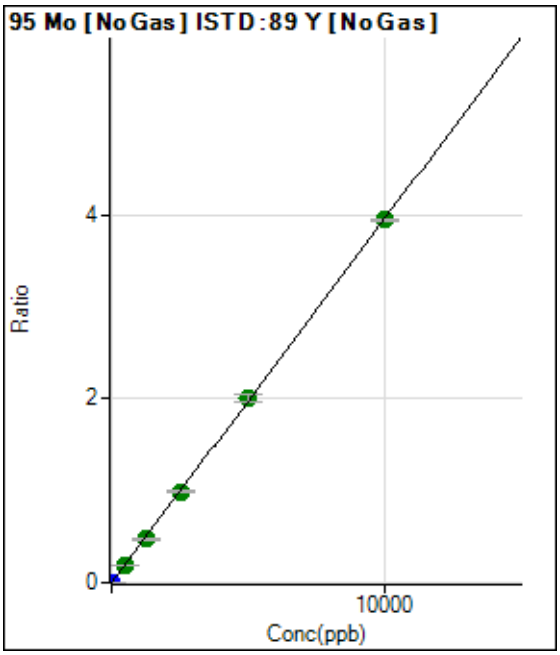
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.68	0.0000	P	3.4
2	☐	5.000	5.727	55161.11	0.0016	P	1.0
3	☐	500.000	489.284	4459858.20	0.1328	A	3.1
4	☐	1250.000	1194.999	11364480.25	0.3244	A	5.5
5	☐	2500.000	2503.129	22944812.99	0.6795	A	1.0
6	☐	5000.000	5029.229	47043574.30	1.3652	A	4.1
7	☐	10000.000	9992.014	97033437.44	2.7123	A	0.3
8	☐			27012.42	0.0008	P	19.7

y = 2.7144E-004 * x + 1.3508E-005
R = 1.0000
DL = 0.005009
BEC = 0.04976

Weight: <None>
Min Conc: 0

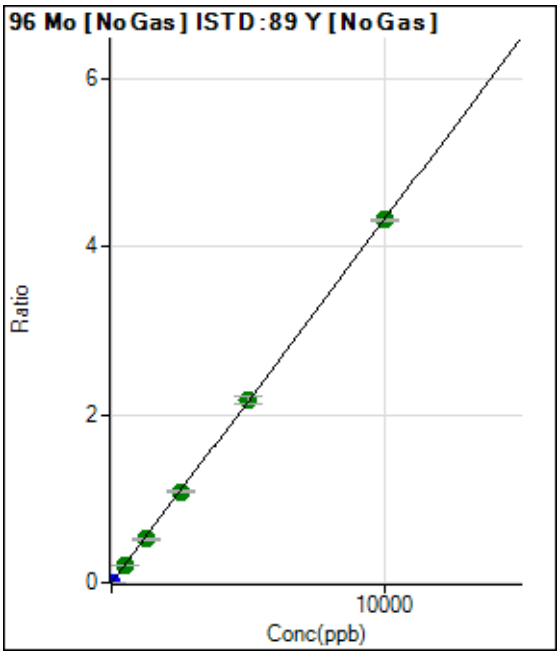


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	15.6
2	☐	5.000	4.847	67611.77	0.0019	P	0.1
3	☐	500.000	492.821	6550498.30	0.1951	A	2.9
4	☐	1250.000	1202.789	16683790.44	0.4761	A	4.5
5	☐	2500.000	2508.886	33537680.05	0.9931	A	1.5
6	☐	5000.000	5054.858	68951096.20	2.0010	A	4.0
7	☐	10000.000	9976.610	141286953.45	3.9492	A	0.3
8	☐			21372.79	0.0007	P	33.5

y = 3.9585E-004 * x + 3.0556E-006
R = 1.0000
DL = 0.003623
BEC = 0.007719

Weight: <None>
Min Conc: 0

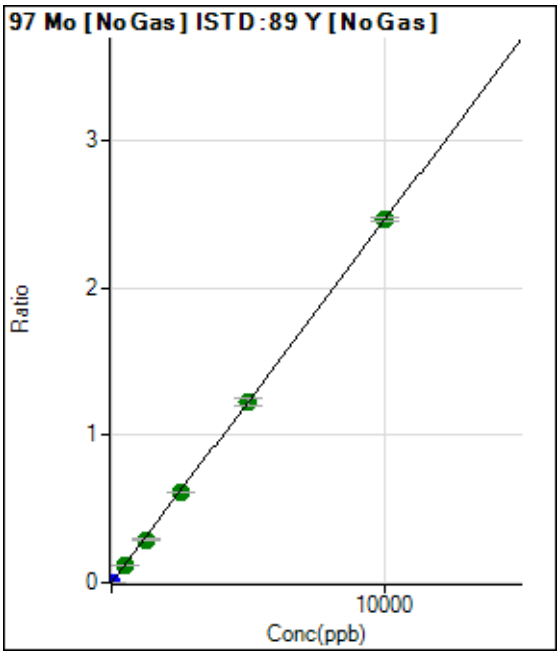
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215.56	0.0000	P	14.0
2	☐	5.000	4.914	75041.08	0.0021	P	0.3
3	☐	500.000	495.051	7195326.97	0.2143	A	2.4
4	☐	1250.000	1198.558	18176574.17	0.5188	A	4.9
5	☐	2500.000	2506.846	36639852.23	1.0850	A	1.3
6	☐	5000.000	5036.392	75112009.99	2.1799	A	4.5
7	☐	10000.000	9986.770	154645935.47	4.3225	A	0.8
8	☐			44329.80	0.0014	P	19.0

y = 4.3282E-004 * x + 6.2398E-006
R = 1.0000
DL = 0.006034
BEC = 0.01442

Weight: <None>
Min Conc: 0

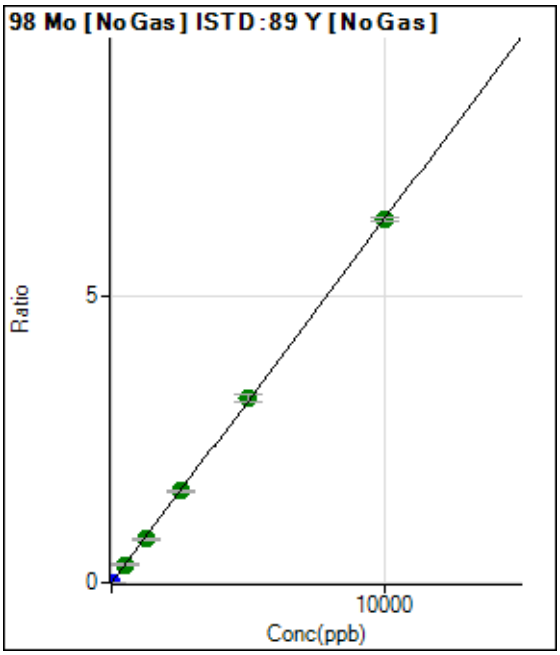


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0000	P	45.6
2	☐	5.000	4.921	42696.61	0.0012	P	1.6
3	☐	500.000	493.444	4079973.90	0.1215	A	2.4
4	☐	1250.000	1193.827	10300679.78	0.2940	A	4.4
5	☐	2500.000	2501.025	20795841.91	0.6158	A	1.4
6	☐	5000.000	4991.924	42353862.70	1.2292	A	4.7
7	☐	10000.000	10011.131	88188408.68	2.4650	A	0.9
8	☐			13475.78	0.0004	P	34.5

y = 2.4623E-004 * x + 2.0588E-006
R = 1.0000
DL = 0.01144
BEC = 0.008361

Weight: <None>
Min Conc: 0

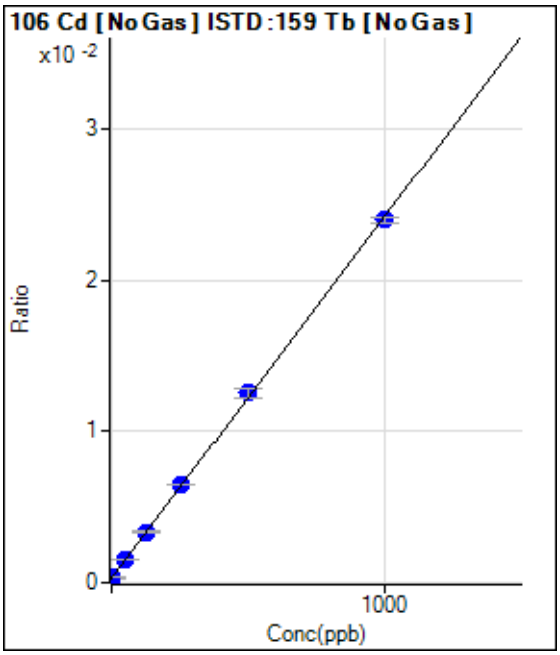
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.56	0.0000	P	7.4
2	☐	5.000	4.838	108260.63	0.0031	P	0.8
3	☐	500.000	499.007	10643896.16	0.3170	A	2.0
4	☐	1250.000	1195.939	26615706.27	0.7597	A	5.1
5	☐	2500.000	2516.927	53986744.75	1.5987	A	1.3
6	☐	5000.000	5052.989	110599716.13	3.2096	A	4.3
7	☐	10000.000	9976.081	226693643.29	6.3367	A	0.9
8	☐			33276.77	0.0010	P	35.3

y = 6.3519E-004 * x + 3.9236E-006
R = 1.0000
DL = 0.001377
BEC = 0.006177

Weight: <None>
Min Conc: 0

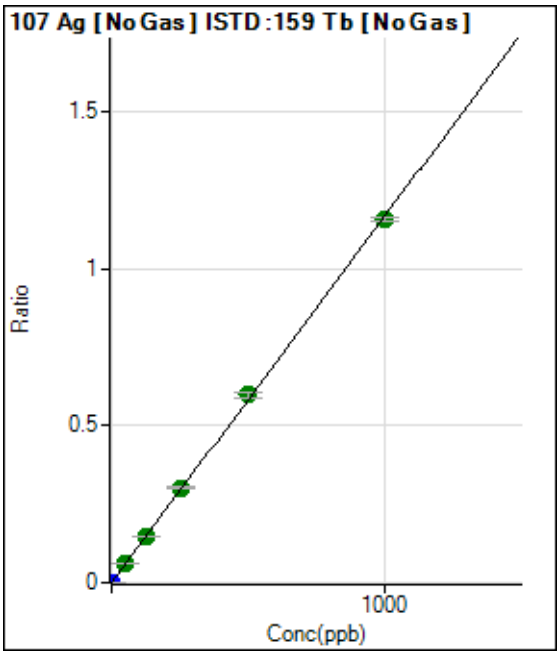


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8935.05	0.0003	P	1.1
2	☐	1.000	0.987	9745.58	0.0003	P	2.0
3	☐	50.000	51.973	43701.05	0.0016	P	3.2
4	☐	125.000	125.831	96854.46	0.0033	P	4.0
5	☐	250.000	258.687	184276.18	0.0065	P	0.6
6	☐	500.000	511.821	362520.75	0.0126	P	4.5
7	☐	1000.000	991.715	716474.62	0.0240	P	1.5
8	☐			8698.25	0.0003	P	2.0

y = 2.3912E-005 * x + 3.1406E-004
R = 0.9999
DL = 0.4186
BEC = 13.13

Weight: <None>
Min Conc: 0

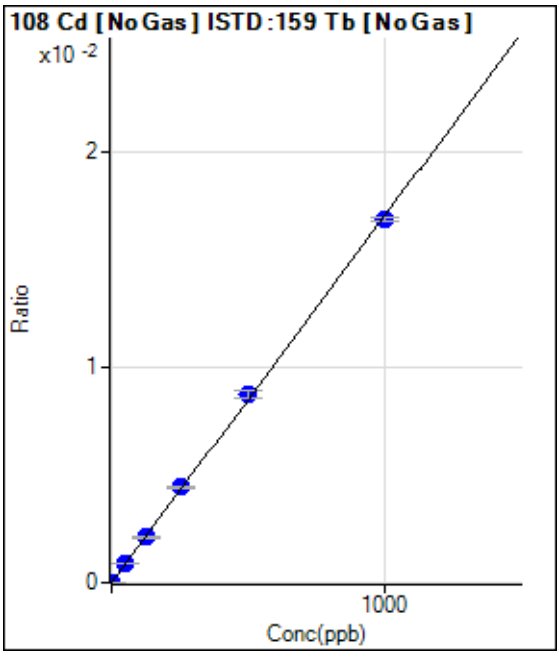
Reviewed By:jaswal
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0000	P	5.6
2	☐	1.000	1.034	34946.42	0.0012	P	1.3
3	☐	50.000	52.083	1705840.46	0.0608	A	2.0
4	☐	125.000	126.357	4296673.06	0.1474	A	3.6
5	☐	250.000	259.500	8582205.22	0.3027	A	0.7
6	☐	500.000	512.911	17281789.88	0.5983	A	3.5
7	☐	1000.000	990.896	34468722.27	1.1559	A	1.1
8	☐			4640.81	0.0002	P	21.1

y = 0.0012 * x + 4.9195E-006
R = 0.9998
DL = 0.0007113
BEC = 0.004217

Weight: <None>
Min Conc: 0

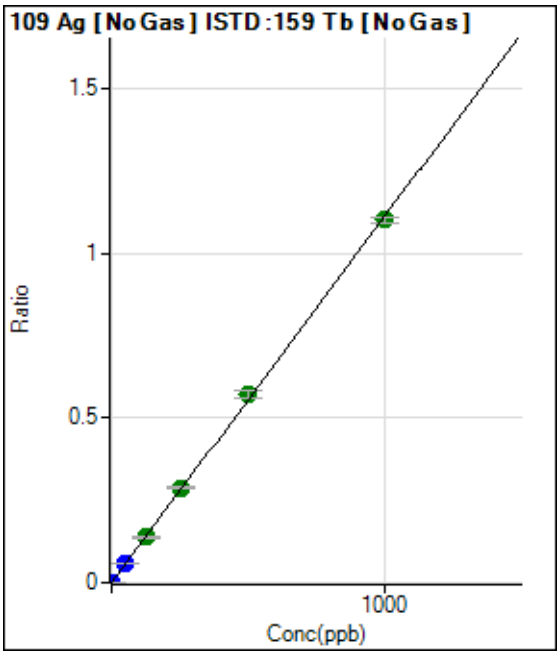


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	72.8
2	☐	1.000	1.068	545.57	0.0000	P	7.1
3	☐	50.000	52.019	24889.18	0.0009	P	2.7
4	☐	125.000	124.561	61848.79	0.0021	P	4.6
5	☐	250.000	259.751	125438.49	0.0044	P	0.8
6	☐	500.000	515.207	253406.62	0.0088	P	4.7
7	☐	1000.000	989.913	502747.08	0.0169	P	1.2
8	☐			191.11	0.0000	P	13.8

y = 1.7031E-005 * x + 7.0297E-007
R = 0.9998
DL = 0.0902
BEC = 0.04128

Weight: <None>
Min Conc: 0

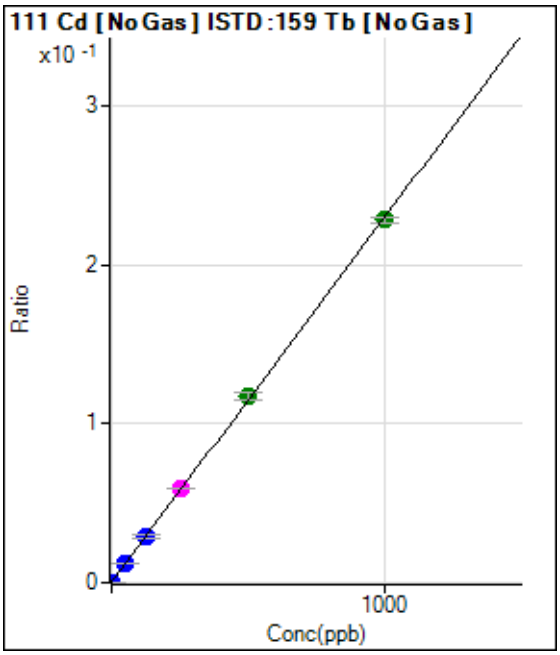
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0000	P	17.6
2	☐	1.000	1.033	33164.63	0.0011	P	2.4
3	☐	50.000	51.866	1618096.33	0.0576	P	2.5
4	☐	125.000	125.762	4073343.06	0.1398	A	4.3
5	☐	250.000	259.247	8167796.41	0.2881	A	1.5
6	☐	500.000	512.901	16461410.87	0.5700	A	4.0
7	☐	1000.000	991.049	32838215.07	1.1013	A	1.7
8	☐			4418.52	0.0002	P	24.2

y = 0.0011 * x + 1.7192E-006
R = 0.9998
DL = 0.000818
BEC = 0.001547

Weight: <None>
Min Conc: 0

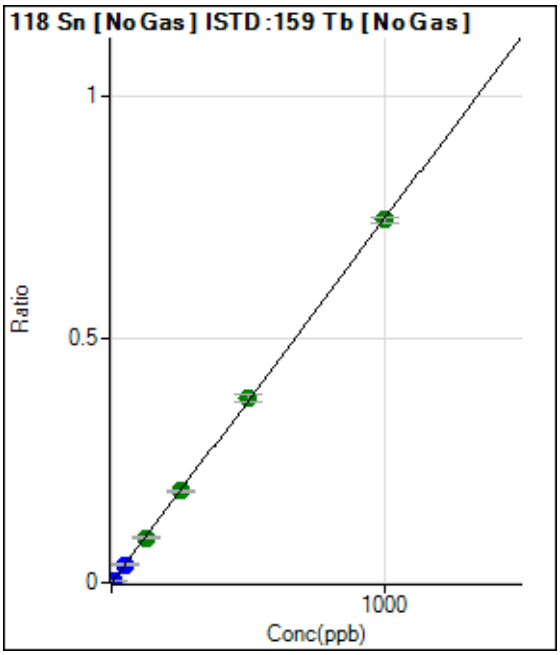


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6252.76	0.0002	P	1.1
2	☐	1.000	1.106	13661.87	0.0005	P	2.0
3	☐	50.000	51.506	337734.57	0.0120	P	2.9
4	☐	125.000	125.440	844829.99	0.0290	P	4.4
5	☐	250.000	256.104	1671307.79	0.0589	M	0.9
6	☐	500.000	509.638	3381736.68	0.1171	A	4.4
7	☐	1000.000	993.525	6800249.60	0.2281	A	1.6
8	☐			6943.93	0.0003	P	6.3

y = 2.2932E-004 * x + 2.1978E-004
R = 0.9999
DL = 0.03259
BEC = 0.9584

Weight: <None>
Min Conc: 0

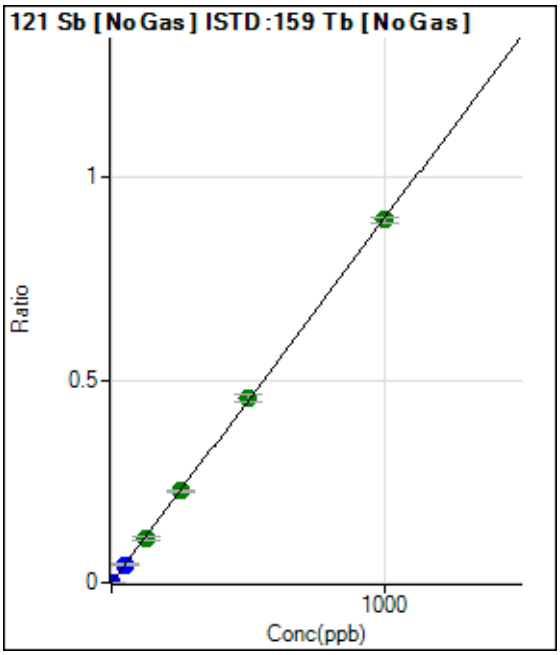
Reviewed By:jaswal
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1982.38	0.0001	P	3.0
2	☐	5.000	5.106	112058.02	0.0039	P	0.7
3	☐	50.000	50.029	1050765.44	0.0374	P	3.1
4	☐	125.000	121.876	2654827.61	0.0911	A	4.5
5	☐	250.000	251.147	5319618.81	0.1876	A	1.7
6	☐	500.000	505.981	10915547.89	0.3779	A	4.2
7	☐	1000.000	997.111	22206424.11	0.7447	A	1.6
8	☐			14550.83	0.0006	P	8.2

y = 7.4682E-004 * x + 6.9685E-005
R = 1.0000
DL = 0.008319
BEC = 0.09331

Weight: <None>
Min Conc: 0

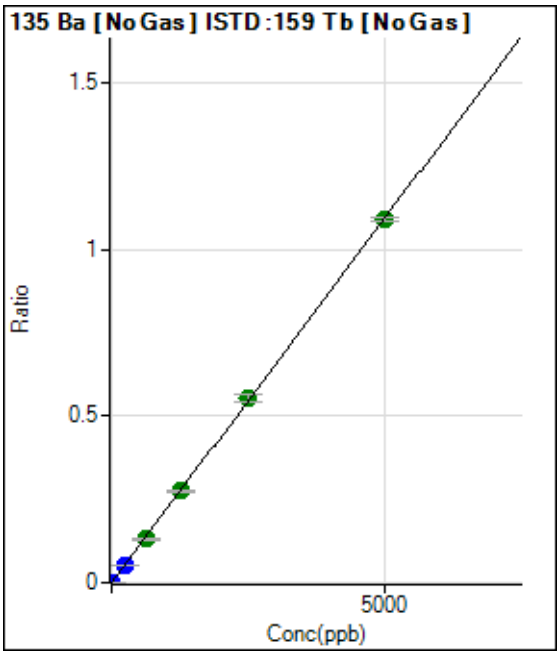


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	17.2
2	☐	2.000	2.080	53976.37	0.0019	P	0.5
3	☐	50.000	49.541	1249460.89	0.0445	P	2.6
4	☐	125.000	121.383	3178181.86	0.1090	A	4.6
5	☐	250.000	252.230	6424321.57	0.2266	A	1.6
6	☐	500.000	508.189	13184807.17	0.4565	A	4.3
7	☐	1000.000	995.823	26676262.94	0.8946	A	1.4
8	☐			17966.96	0.0007	P	5.8

y = 8.9836E-004 * x + 2.0694E-006
R = 0.9999
DL = 0.001186
BEC = 0.002304

Weight: <None>
Min Conc: 0

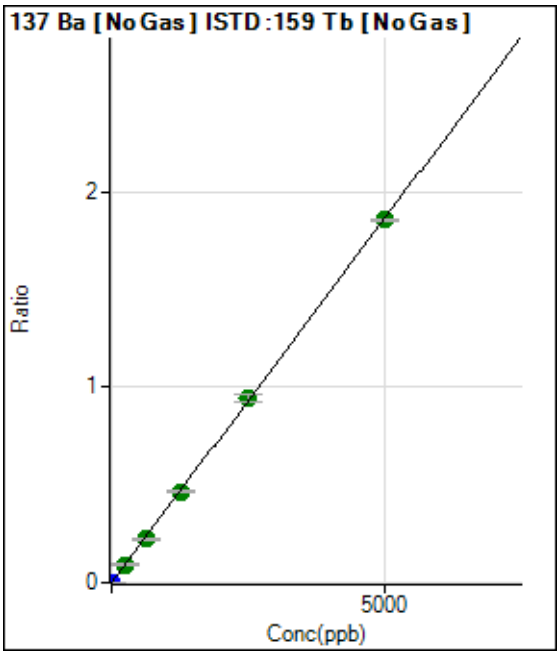
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.78	0.0000	P	18.0
2	☐	10.000	10.011	63299.84	0.0022	P	0.6
3	☐	250.000	245.107	1505464.21	0.0536	P	2.7
4	☐	625.000	602.644	3842791.65	0.1318	A	4.7
5	☐	1250.000	1255.575	7787872.73	0.2747	A	0.7
6	☐	2500.000	2538.182	16038200.73	0.5553	A	3.9
7	☐	5000.000	4982.554	32505863.96	1.0901	A	1.1
8	☐			12946.03	0.0005	P	10.4

y = 2.1878E-004 * x + 3.0808E-006
R = 0.9999
DL = 0.007606
BEC = 0.01408

Weight: <None>
Min Conc: 0

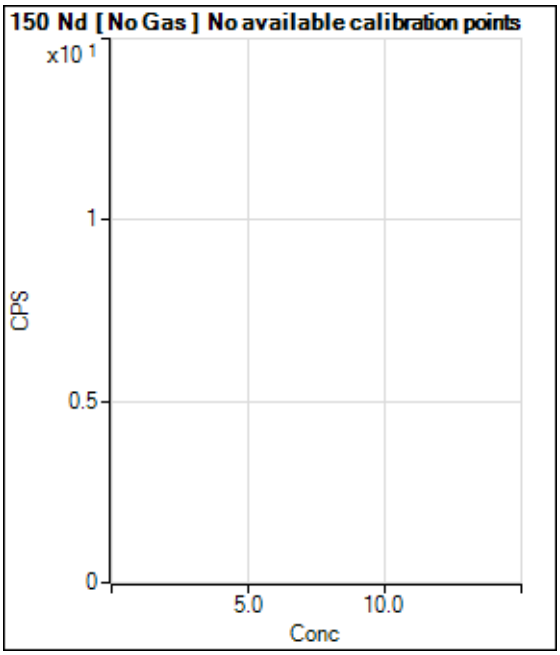


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0000	P	28.2
2	☐	10.000	10.095	108666.65	0.0038	P	1.3
3	☐	250.000	248.610	2599110.32	0.0926	A	3.8
4	☐	625.000	603.096	6546089.28	0.2246	A	5.0
5	☐	1250.000	1253.874	13239940.78	0.4670	A	1.4
6	☐	2500.000	2536.241	27280472.09	0.9446	A	4.2
7	☐	5000.000	4983.718	55351774.17	1.8561	A	0.7
8	☐			22071.89	0.0008	P	11.7

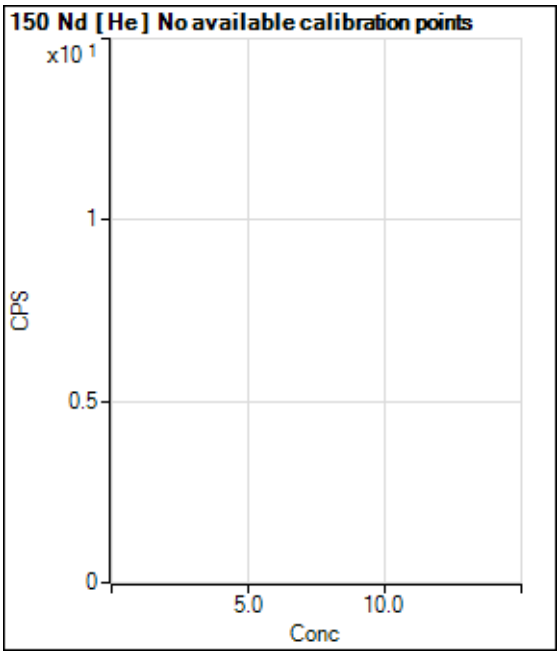
y = 3.7244E-004 * x + 5.7281E-006
R = 0.9999
DL = 0.01301
BEC = 0.01538

Weight: <None>
Min Conc: 0

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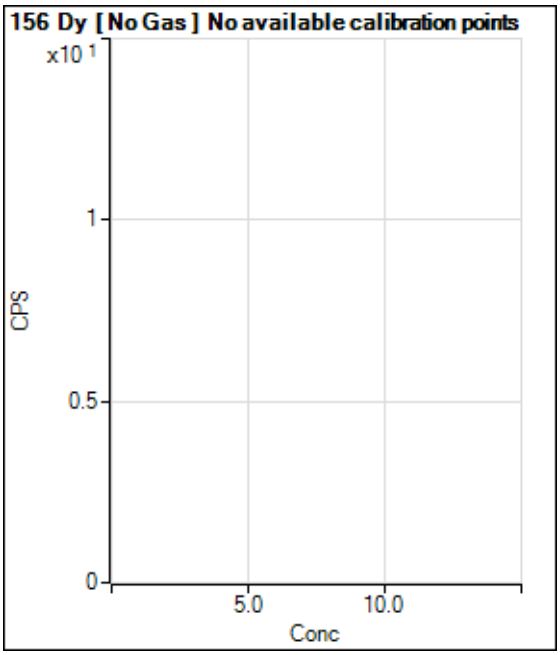


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			20.00		P	28.9
2	☐			23.33		P	37.8
3	☐			78.89		P	13.6
4	☐			201.11		P	13.5
5	☐			364.45		P	10.4
6	☐			647.80		P	4.8
7	☐			1345.64		P	4.1
8	☐			525.57		P	3.8

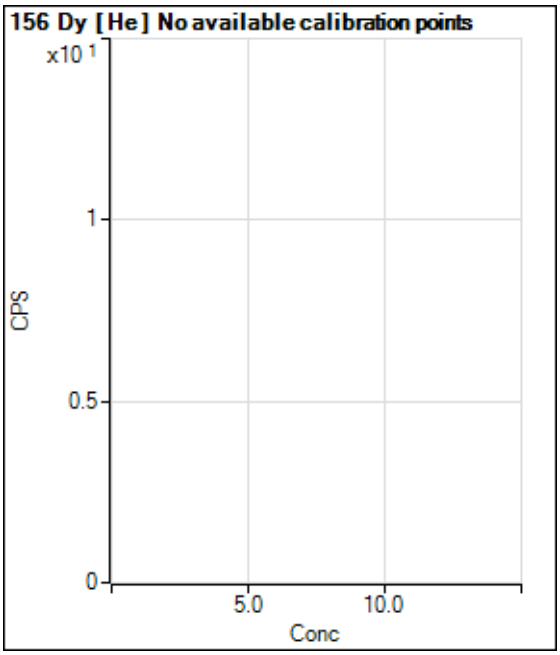


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			7.78		P	65.5
2	☐			16.67		P	87.2
3	☐			22.22		P	52.7
4	☐			51.11		P	10.0
5	☐			78.89		P	23.3
6	☐			154.45		P	13.7
7	☐			346.68		P	4.2
8	☐			313.34		P	2.8

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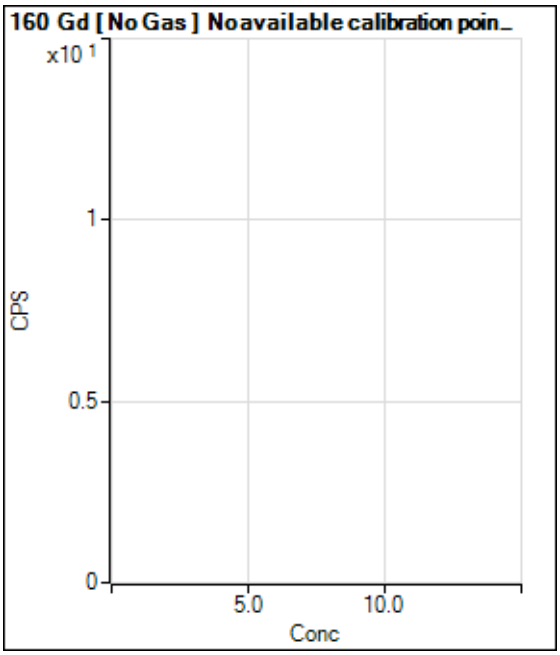


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.55		P	15.1
2	☐			27.78		P	30.2
3	☐			51.11		P	18.8
4	☐			75.56		P	11.1
5	☐			167.78		P	10.2
6	☐			250.01		P	4.8
7	☐			490.02		P	8.5
8	☐			860.04		P	10.4

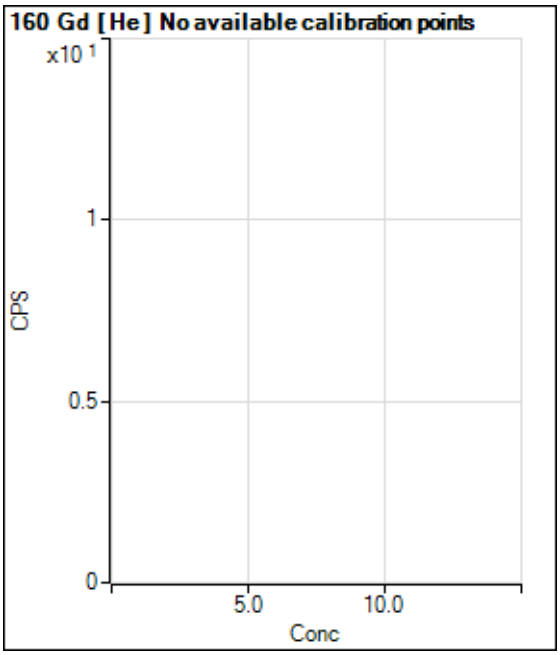


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			12.22		P	41.7
2	☐			16.67		P	20.0
3	☐			71.11		P	11.8
4	☐			168.89		P	25.8
5	☐			373.34		P	6.7
6	☐			698.91		P	1.8
7	☐			1420.09		P	1.5
8	☐			713.36		P	10.1

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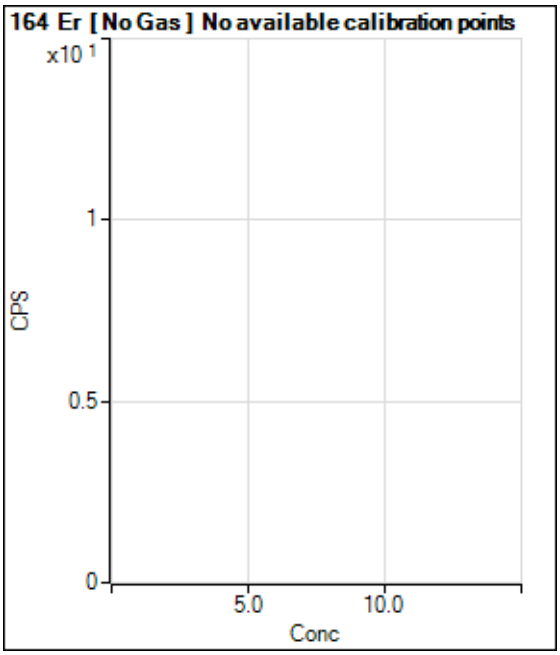


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			163.34		P	15.9
2	☐			175.56		P	15.2
3	☐			163.34		P	14.7
4	☐			214.45		P	10.4
5	☐			235.56		P	4.3
6	☐			292.23		P	12.7
7	☐			402.23		P	3.4
8	☐			864.48		P	2.0

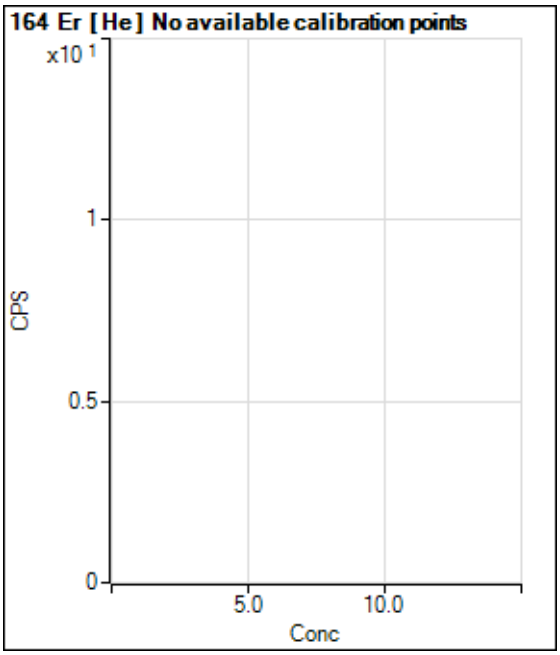


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1025.60		P	10.9
2	☐			1081.16		P	3.7
3	☐			1057.83		P	3.8
4	☐			1053.38		P	5.5
5	☐			1128.95		P	5.5
6	☐			1131.17		P	6.1
7	☐			1275.63		P	3.5
8	☐			1524.55		P	4.7

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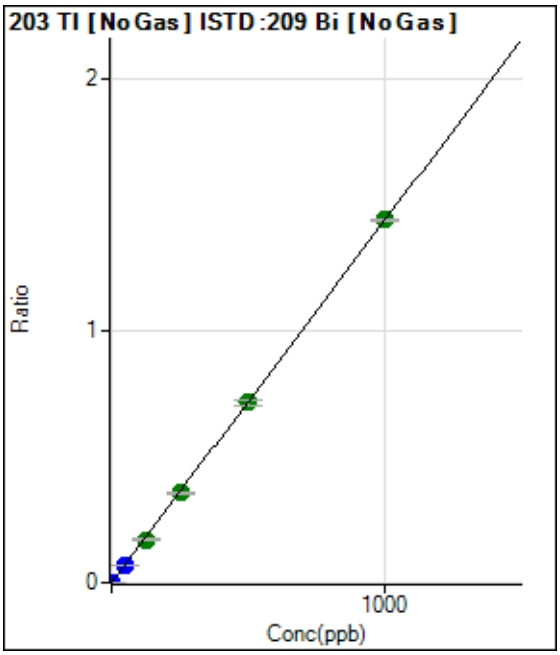


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			203.34		P	5.9
2	☐			180.00		P	1.9
3	☐			227.78		P	8.9
4	☐			234.45		P	7.0
5	☐			313.34		P	3.2
6	☐			352.23		P	9.7
7	☐			480.01		P	9.1
8	☐			1031.16		P	8.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			128.89		P	18.3
2	☐			153.34		P	24.2
3	☐			154.45		P	14.7
4	☐			171.11		P	14.6
5	☐			173.34		P	8.4
6	☐			227.78		P	11.4
7	☐			343.34		P	12.1
8	☐			731.14		P	7.4

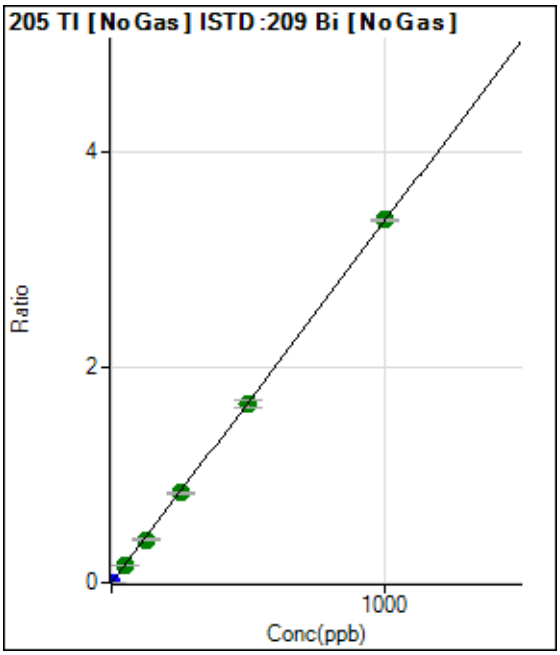
Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	201.12	0.0000	P	13.6
2	☐	1.000	0.986	23726.30	0.0014	P	1.3
3	☐	50.000	49.381	1131601.65	0.0711	P	2.9
4	☐	125.000	118.831	2838403.92	0.1710	A	3.5
5	☐	250.000	247.864	5717433.46	0.3567	A	1.7
6	☐	500.000	497.369	11480316.77	0.7157	A	3.4
7	☐	1000.000	1002.652	23141384.10	1.4427	A	0.5
8	☐			2254.67	0.0002	P	34.1

y = 0.0014 * x + 1.2271E-005
R = 1.0000
DL = 0.003475
BEC = 0.008528

Weight: <None>
Min Conc: 0

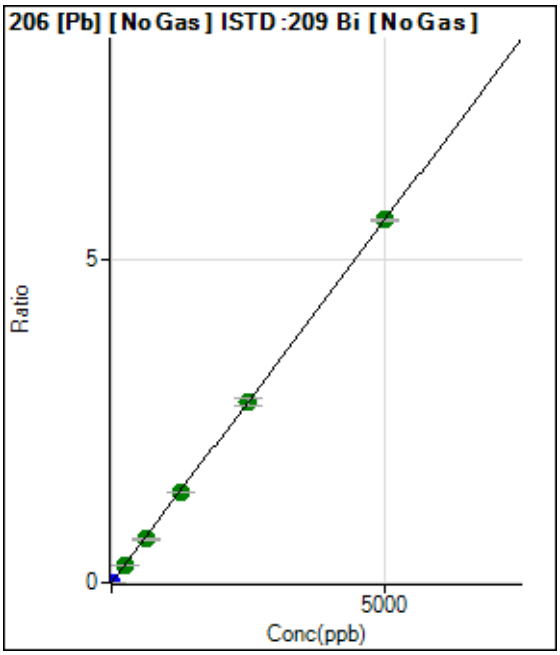


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	377.79	0.0000	P	9.9
2	☐	1.000	0.990	55439.03	0.0033	P	0.1
3	☐	50.000	48.438	2586755.01	0.1625	A	4.1
4	☐	125.000	118.852	6616317.68	0.3986	A	3.9
5	☐	250.000	247.628	13313619.39	0.8305	A	0.5
6	☐	500.000	494.191	26584860.71	1.6574	A	3.9
7	☐	1000.000	1004.344	54028890.86	3.3683	A	0.6
8	☐			5168.88	0.0004	P	27.5

y = 0.0034 * x + 2.3042E-005
R = 1.0000
DL = 0.002045
BEC = 0.00687

Weight: <None>
Min Conc: 0

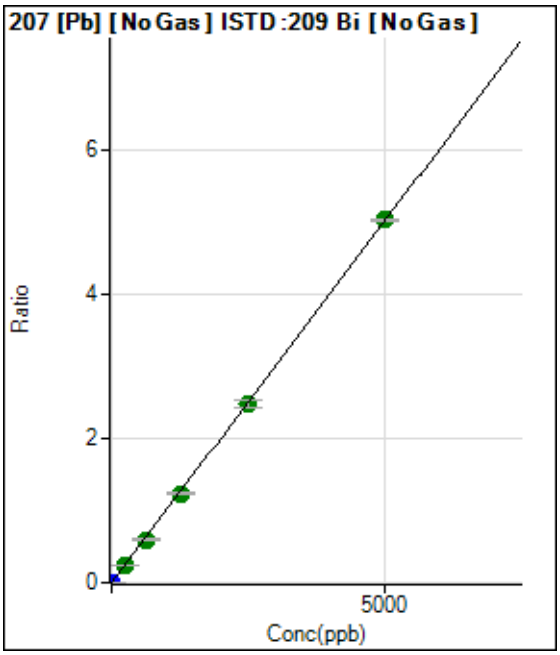
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	424.45	0.0000	P	5.5
2	☐	1.000	1.013	19263.69	0.0012	P	0.6
3	☐	250.000	243.509	4350468.41	0.2732	A	3.6
4	☐	625.000	597.996	11135222.33	0.6709	A	4.2
5	☐	1250.000	1243.388	22362655.78	1.3950	A	1.3
6	☐	2500.000	2496.903	44933594.88	2.8013	A	3.7
7	☐	5000.000	5006.901	90100591.99	5.6172	A	0.6
8	☐			16479.55	0.0013	P	24.4

y = 0.0011 * x + 2.5889E-005
R = 1.0000
DL = 0.003831
BEC = 0.02308

Weight: <None>
Min Conc: 0

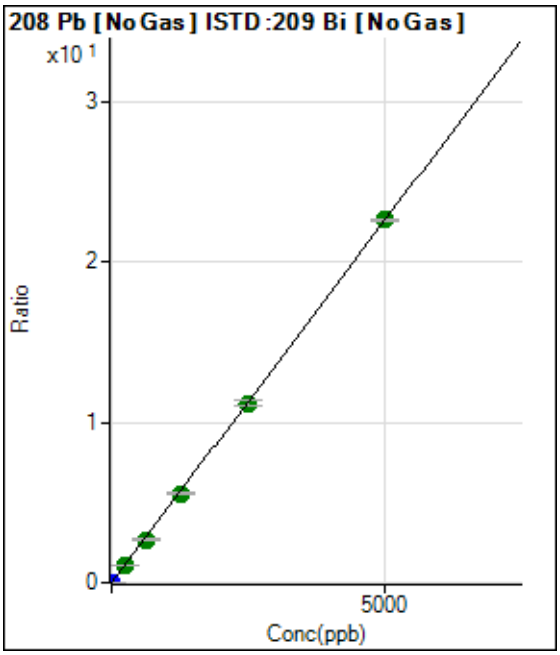


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.34	0.0000	P	7.5
2	☐	1.000	0.990	16859.45	0.0010	P	1.3
3	☐	250.000	244.178	3897331.61	0.2448	A	3.8
4	☐	625.000	593.340	9870467.42	0.5948	A	4.7
5	☐	1250.000	1230.505	19772717.62	1.2334	A	1.7
6	☐	2500.000	2480.458	39881249.96	2.4863	A	3.8
7	☐	5000.000	5018.893	80693009.91	5.0307	A	0.5
8	☐			14334.71	0.0011	P	23.7

y = 0.0010 * x + 2.4602E-005
R = 1.0000
DL = 0.005488
BEC = 0.02454

Weight: <None>
Min Conc: 0

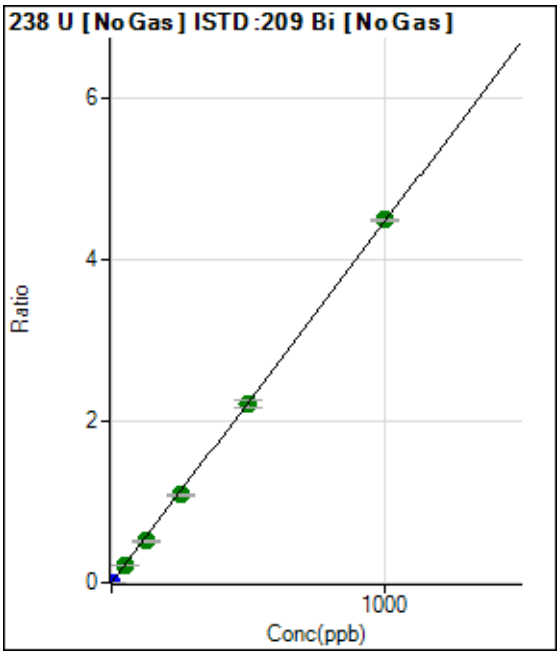
Reviewed By:jaswal
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1686.73	0.0001	P	5.6
2	☐	1.000	0.998	76437.27	0.0046	P	0.5
3	☐	250.000	243.231	17497400.37	1.0988	A	2.8
4	☐	625.000	596.941	44754525.51	2.6966	A	4.5
5	☐	1250.000	1235.784	89491889.92	5.5825	A	1.7
6	☐	2500.000	2484.791	180044938.98	11.2245	A	3.8
7	☐	5000.000	5015.004	363376623.47	22.6542	A	0.6
8	☐			65157.40	0.0050	P	23.5

y = 0.0045 * x + 1.0288E-004
R = 1.0000
DL = 0.003833
BEC = 0.02277

Weight: <None>
Min Conc: 0

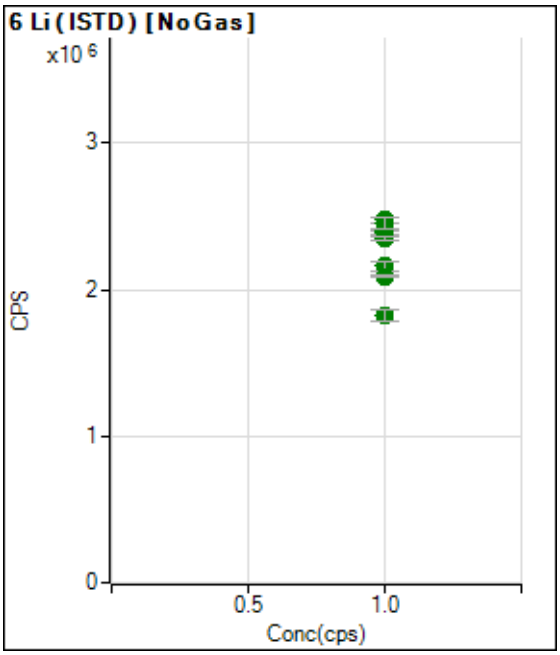


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	29.5
2	☐	1.000	0.939	69613.86	0.0042	P	1.1
3	☐	50.000	47.302	3366207.24	0.2114	A	1.5
4	☐	125.000	115.429	8561274.67	0.5158	A	3.8
5	☐	250.000	244.163	17490034.46	1.0910	A	1.5
6	☐	500.000	494.193	35421251.69	2.2083	A	3.9
7	☐	1000.000	1005.694	72081300.04	4.4939	A	0.4
8	☐			5624.14	0.0004	P	73.5

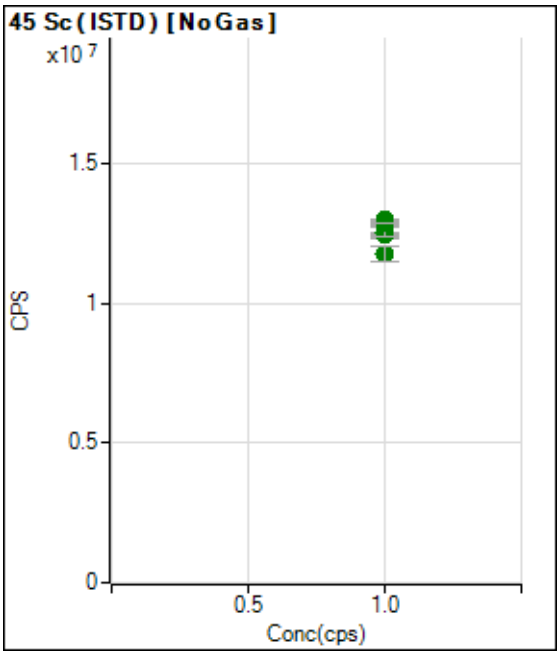
y = 0.0045 * x + 3.3883E-006
R = 0.9999
DL = 0.0006711
BEC = 0.0007583

Weight: <None>
Min Conc: 0

Reviewed By:jaswal
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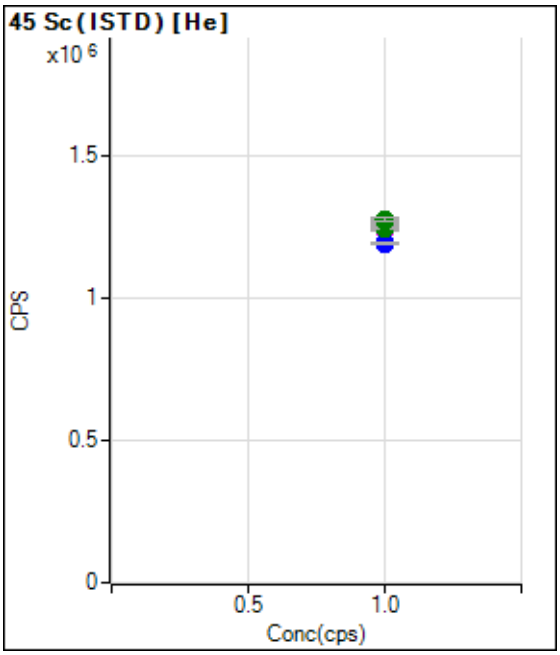


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1	☐	1.000		2389402.44		A	1.0
2	☐	1.000		2474674.30		A	1.4
3	☐	1.000		2397032.10		A	1.9
4	☐	1.000		2453791.02		A	3.0
5	☐	1.000		2348768.59		A	0.8
6	☐	1.000		2161067.97		A	3.1
7	☐	1.000		2088905.37		A	0.7
8	☐	1.000		1824547.34		A	4.8

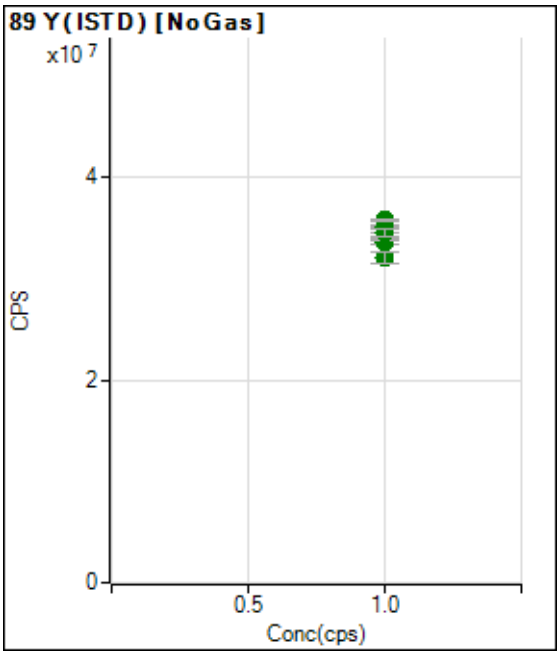


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12867065.92		A	0.7
2	☐	1.000		12976020.22		A	0.5
3	☐	1.000		12433491.62		A	1.4
4	☐	1.000		12846007.58		A	2.1
5	☐	1.000		12432347.04		A	0.5
6	☐	1.000		12548602.59		A	2.7
7	☐	1.000		12846876.48		A	0.3
8	☐	1.000		11772432.46		A	4.3

Reviewed By:jaswal
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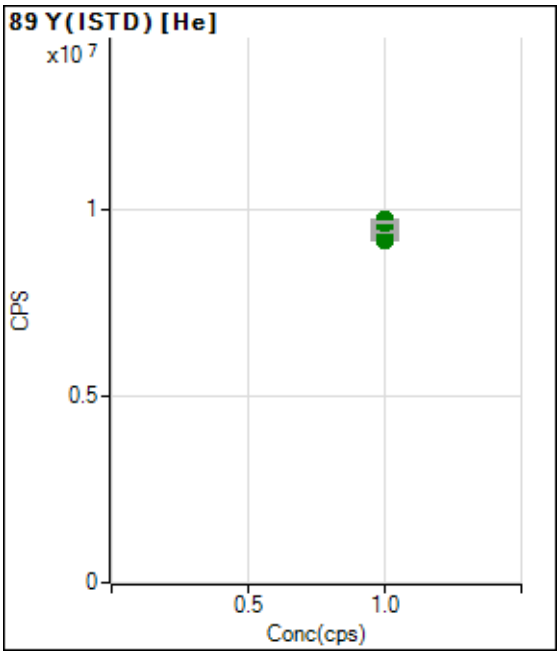


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1	☐	1.000		1233974.59		M	0.0
2	☐	1.000		1249525.17		A	0.7
3	☐	1.000		1194470.99		P	0.4
4	☐	1.000		1190592.41		P	0.5
5	☐	1.000		1193181.86		P	0.3
6	☐	1.000		1244934.53		A	0.3
7	☐	1.000		1268131.24		A	0.8
8	☐	1.000		1273602.50		A	1.0

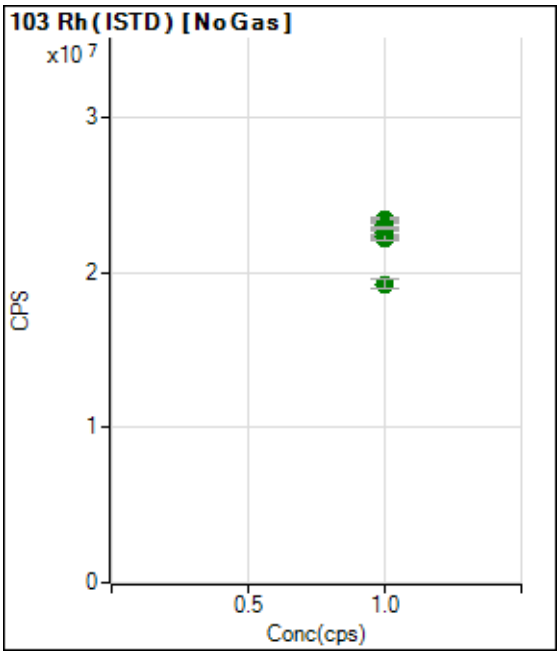


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		34548496.98		A	0.1
2	☐	1.000		35181900.86		A	0.7
3	☐	1.000		33587080.33		A	1.5
4	☐	1.000		35072502.81		A	3.0
5	☐	1.000		33768814.77		A	0.5
6	☐	1.000		34480397.26		A	2.5
7	☐	1.000		35776435.30		A	0.8
8	☐	1.000		31995602.85		A	3.7

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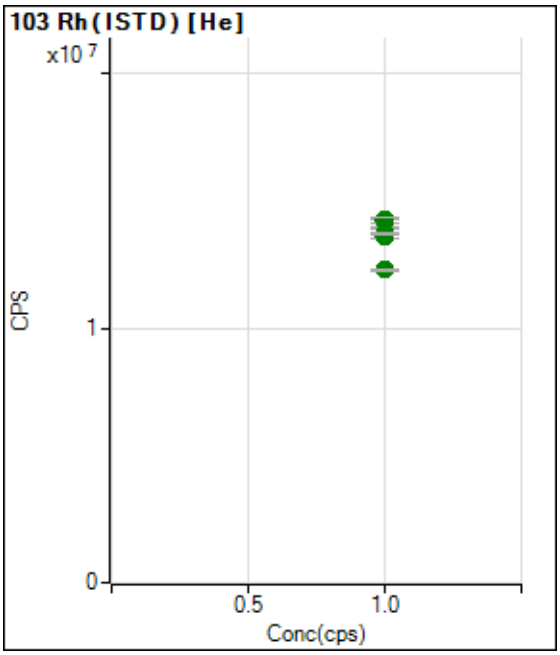


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9502576.94		A	0.9
2	☐	1.000		9604426.25		A	0.6
3	☐	1.000		9194469.24		A	0.9
4	☐	1.000		9288102.43		A	0.5
5	☐	1.000		9403216.32		A	0.5
6	☐	1.000		9723805.96		A	0.6
7	☐	1.000		9709742.77		A	0.6
8	☐	1.000		9659630.48		A	1.0

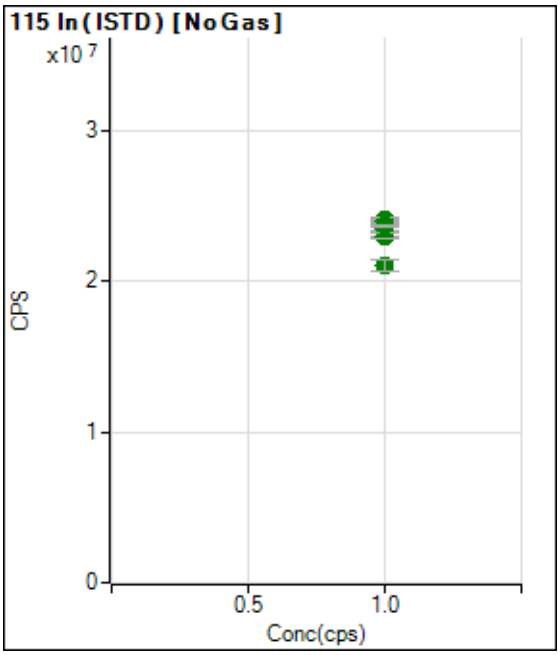


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		23263658.26		A	0.8
2	☐	1.000		23430194.93		A	1.0
3	☐	1.000		22558857.44		A	1.0
4	☐	1.000		23152574.93		A	2.5
5	☐	1.000		22250644.95		A	0.6
6	☐	1.000		22413363.00		A	2.7
7	☐	1.000		22918401.32		A	0.6
8	☐	1.000		19255280.69		A	3.3

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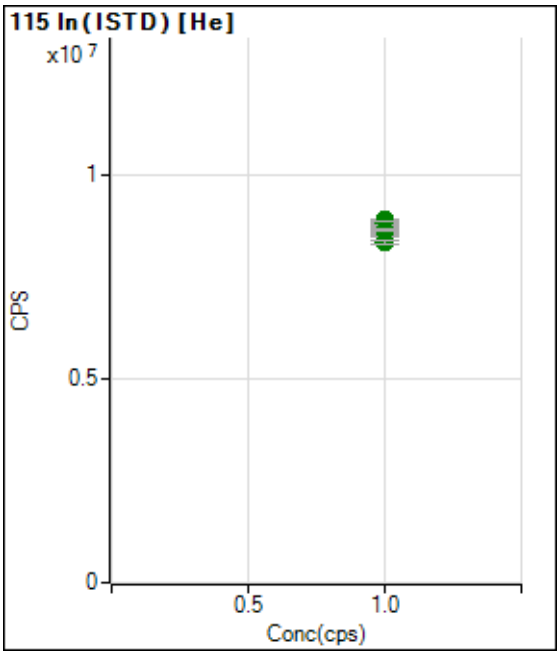


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14189501.04		A	1.0
2	☐	1.000		14254586.87		A	1.5
3	☐	1.000		13625680.77		A	1.4
4	☐	1.000		13709475.63		A	0.8
5	☐	1.000		13727874.52		A	0.4
6	☐	1.000		13959749.10		A	0.4
7	☐	1.000		13734606.05		A	0.6
8	☐	1.000		12280908.98		A	1.1

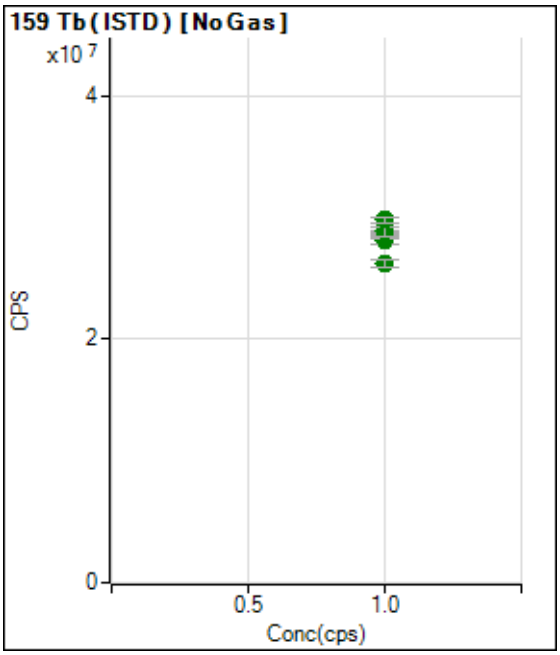


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		23812170.20		A	0.7
2	☐	1.000		24056507.97		A	0.3
3	☐	1.000		23164940.25		A	1.3
4	☐	1.000		23980907.13		A	2.5
5	☐	1.000		23012491.63		A	1.8
6	☐	1.000		23464747.98		A	2.5
7	☐	1.000		23666303.42		A	0.4
8	☐	1.000		21048461.66		A	3.5

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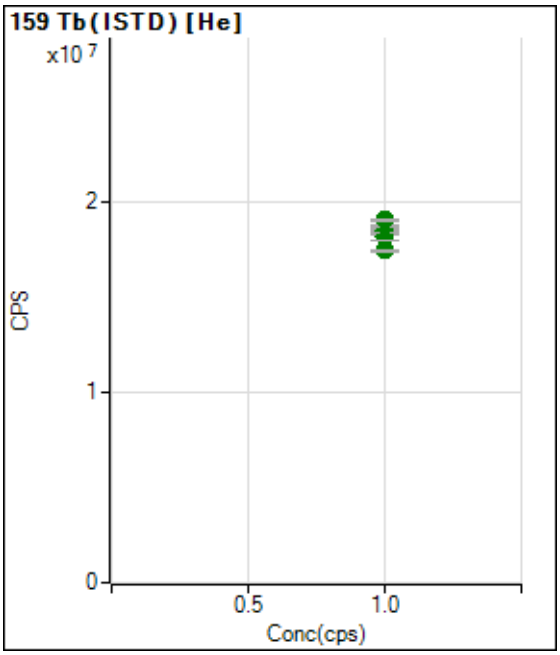


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1	☐	1.000		8834736.46		A	0.7
2	☐	1.000		8891439.04		A	0.9
3	☐	1.000		8554838.82		A	0.7
4	☐	1.000		8513980.27		A	0.7
5	☐	1.000		8665656.83		A	0.7
6	☐	1.000		8795829.47		A	1.2
7	☐	1.000		8647894.11		A	0.3
8	☐	1.000		8344487.11		A	1.2

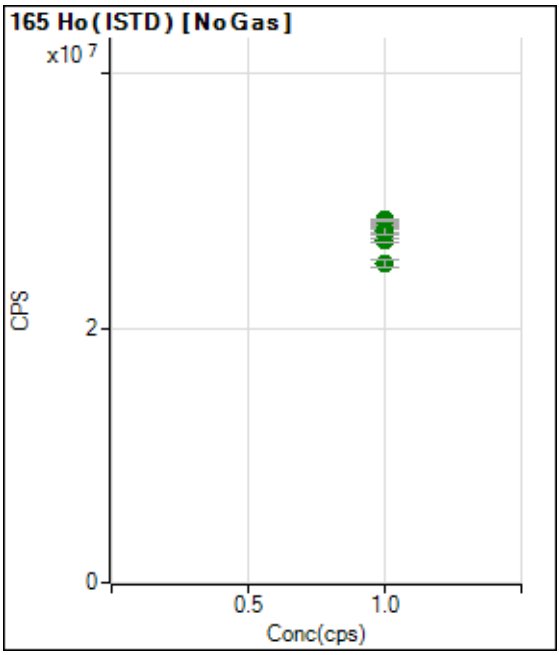


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		28451967.08		A	1.2
2	☐	1.000		28860893.46		A	0.5
3	☐	1.000		28078880.97		A	1.4
4	☐	1.000		29166100.96		A	2.4
5	☐	1.000		28351060.41		A	0.2
6	☐	1.000		28900932.07		A	2.6
7	☐	1.000		29824022.06		A	1.9
8	☐	1.000		26292481.55		A	2.3

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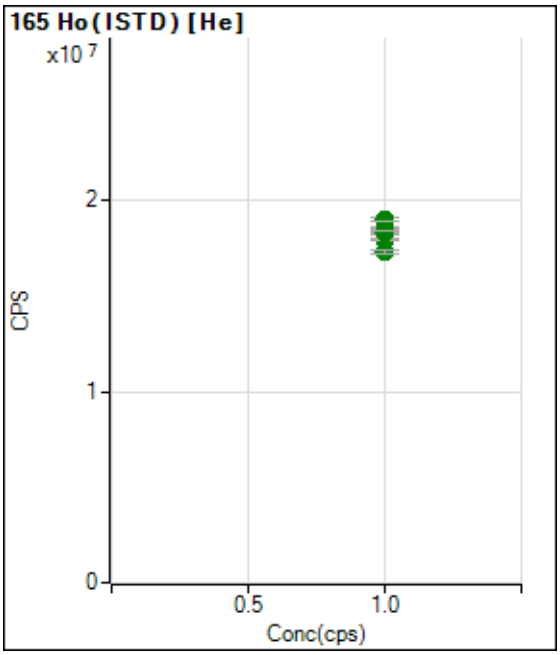


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18600051.67		A	0.3
2	☐	1.000		18716099.72		A	0.5
3	☐	1.000		18216543.76		A	1.7
4	☐	1.000		18534175.56		A	0.7
5	☐	1.000		18802855.69		A	0.6
6	☐	1.000		19094606.38		A	0.1
7	☐	1.000		19100521.38		A	0.7
8	☐	1.000		17484904.32		A	0.4

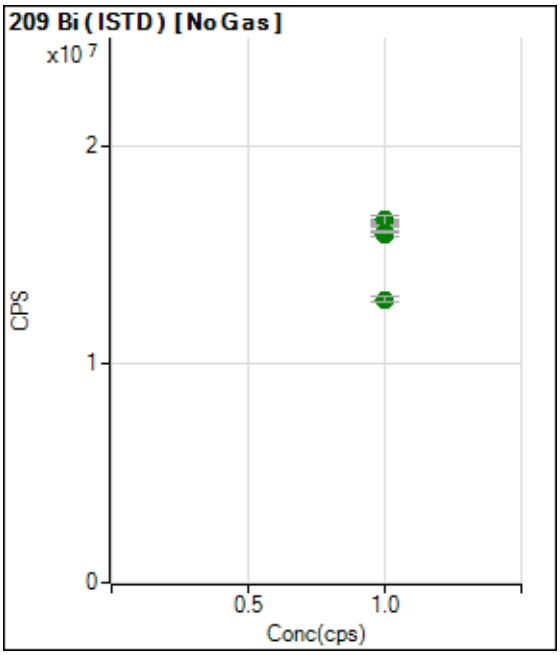


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		27601158.48		A	1.4
2	☐	1.000		27882782.92		A	0.7
3	☐	1.000		26888856.54		A	1.5
4	☐	1.000		28052925.97		A	1.8
5	☐	1.000		27444339.59		A	0.8
6	☐	1.000		27725531.53		A	3.1
7	☐	1.000		28521049.57		A	0.5
8	☐	1.000		25038233.79		A	2.5

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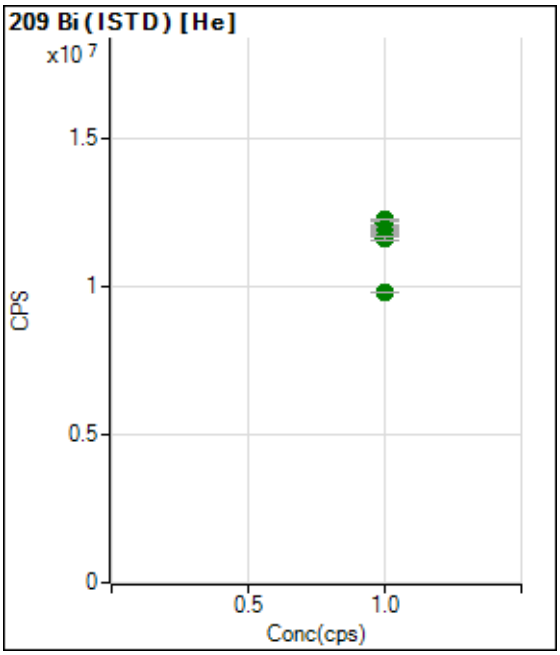


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1	☐	1.000		18306992.78		A	0.3
2	☐	1.000		18550472.08		A	0.4
3	☐	1.000		17946994.73		A	0.6
4	☐	1.000		18343079.03		A	0.8
5	☐	1.000		18428589.45		A	0.4
6	☐	1.000		18992962.22		A	1.1
7	☐	1.000		18906943.89		A	0.2
8	☐	1.000		17332162.10		A	1.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16393535.86		A	0.3
2	☐	1.000		16576785.45		A	0.7
3	☐	1.000		15927693.79		A	1.5
4	☐	1.000		16609273.23		A	2.6
5	☐	1.000		16030789.48		A	0.5
6	☐	1.000		16050783.10		A	2.6
7	☐	1.000		16039801.15		A	0.6
8	☐	1.000		12952764.25		A	2.1

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12172369.68		A	1.3
2	☐	1.000		12276839.12		A	0.7
3	☐	1.000		11812433.16		A	0.4
4	☐	1.000		11987954.54		A	0.9
5	☐	1.000		12004298.99		A	0.5
6	☐	1.000		11853009.68		A	0.3
7	☐	1.000		11645208.86		A	0.8
8	☐	1.000		9826586.87		A	0.4

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7110824MS3.b
Acq. Date-Time	2024-11-09 20:58:33
Report Comment	---
Instrument Name	G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		26982	269816.18			0.530	5.000
24		152985	1529846.67			0.905	5.000
25		19922	199215.55			0.428	5.000
26		23039	230387.27			0.184	5.000
59		206180	2061804.17			0.828	5.000
113		27109	271092.32			0.514	5.000
115		338719	3387192.52			2.314	5.000
206		67299	672993.03			0.984	5.000
207		57552	575521.40			0.637	5.000
208		136567	1365665.59			1.437	5.000
220		0	2.70			28.085	

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

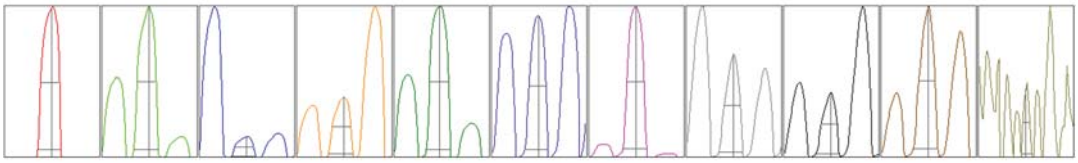
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27055	27073	27071	26973	26737
24	152299	151496	153749	154995	152385
25	19822	19903	19884	19949	20051
26	23027	22995	23066	23008	23098
59	207443	206399	208173	204542	204344
113	27338	27081	27126	27015	26986
115	348064	345772	332331	336687	330742
206	68179	67657	67208	67033	66420
207	58046	57626	57650	57389	57050
208	139321	135451	137812	135782	134466

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	47277.24	9.00	8.90 - 9.10	
24	269186.41	24.00	23.90 - 24.10	
25	35353.94	25.00	24.90 - 25.10	
26	41410.96	26.00	25.90 - 26.10	
59	353962.63	58.95	58.90 - 59.10	
113	52453.35	113.00	112.90 - 113.10	
115	649960.78	115.00	114.90 - 115.10	
206	138270.53	206.00	205.90 - 206.10	
207	119607.44	207.00	206.90 - 207.10	
208	277813.46	208.00	207.90 - 208.10	
220	0.45	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.734	0.900	
24	0.60	0.777	0.900	
25	0.60	0.745	0.900	
26	0.59	0.778	0.900	
59	0.60	0.770	0.900	
113	0.53	0.736	0.900	
115	0.53	0.761	0.900	
206	0.50	0.758	0.900	
207	0.50	0.719	0.900	
208	0.51	0.772	0.900	
220	0.24	0.338		

Integration Time [sec] 0.1
Acquisition Time [sec] 256.770000000002
Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.9
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.2 V	Deflect	15.8 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2195 V	Pulse HV	941 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		73951	739514.50			0.916	
89		112524	1125236.09			0.651	
205		66937	669366.97			1.326	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	74802	74405	73787	73720	73044
89	113307	112883	112563	111339	112527
205	68119	67470	66791	66478	65825

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	3.4 V

US EPA Tune Check Report

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7
ClientSampleId :TUNE001

Extract 2	-170.0 V	Cell Entrance	-40 V	Plate Bias	-60
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2195 V	Pulse HV	941 V

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.03	0.00	-0.03	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	-0.01	0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	-0.03	0.02	0.00	N/A	ppb
Cadmium	106-1	-0.15	0.13	0.02	0.00	N/A	ppb
Cadmium	111-1	-0.01	0.01	0.00	0.00	N/A	ppb
Calcium	43-1	4.57	-2.59	-1.97	0.00	N/A	ppb
Calcium	44-1	4.30	-2.27	-2.03	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.00	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.00	0.00	0.00	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.03	0.04	-0.02	0.00	N/A	ppb
Iron	57-2	0.16	-0.12	-0.05	0.00	N/A	ppb
Iron	54-2	-0.04	-0.27	0.31	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	207-1	0.00	0.00	0.00	0.00	N/A	ppb
Lead	208-1	0.00	0.00	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.00	0.05	-0.05	0.00	N/A	ppb
Manganese	55-2	-0.01	-0.01	0.01	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	0.00	0.00	N/A	ppb
Phosphorus	31-2	-13.90	-15.67	-14.60	-14.72		ppb
Potassium	39-2	0.41	-0.04	-0.37	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.00	0.06	-0.06	0.00	N/A	ppb
Selenium	77-2	0.05	-0.03	-0.03	0.00	N/A	ppb
Selenium	78-2	0.06	-0.21	0.15	0.00	N/A	ppb
Silicon	28-1	0.10	-0.44	0.34	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	0.36	-0.42	0.06	0.00	N/A	ppb
Strontium	86-1	0.01	-0.01	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-3.63	-45.92	-40.10	-29.88		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	0.00	0.00	N/A	ppb
Titanium	47-1	0.01	0.00	-0.01	0.00	N/A	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	-0.01	0.04	-0.02	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.67	20.02	19.82	19.83	0.88	ppb
Antimony	121-1	2.07	2.09	2.08	2.08	0.50	ppb
Arsenic	75-2	1.08	1.06	1.09	1.08	1.44	ppb
Barium	135-1	9.99	10.08	9.97	10.01	0.57	ppb
Barium	137-1	10.00	10.24	10.04	10.09	1.26	ppb
Beryllium	9-1	0.95	1.08	1.07	1.03	6.95	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.16	1.02	1.03	1.07	7.33	ppb
Cadmium	106-1	1.16	1.15	0.65	0.99	29.22	ppb
Cadmium	111-1	1.14	1.12	1.06	1.11	3.77	ppb
Calcium	43-1	511.17	522.40	517.28	516.95	1.09	ppb
Calcium	44-1	516.26	518.32	517.11	517.23	0.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.07	2.12	2.09	2.09	1.19	ppb
Cobalt	59-2	1.11	1.07	1.09	1.09	2.05	ppb
Copper	63-2	2.01	2.07	2.05	2.05	1.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	56-2	55.27	56.32	55.59	55.73	0.96	ppb
Iron	57-2	56.57	57.05	58.88	57.50	2.12	ppb
Iron	54-2	55.82	58.13	56.09	56.68	2.23	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.01	1.02	1.01	1.01	0.64	ppb
Lead	207-1	0.98	0.98	1.00	0.99	1.29	ppb
Lead	208-1	0.99	1.00	1.00	1.00	0.54	ppb
Lithium	6-1				104		%
Magnesium	24-2	549.41	557.26	554.28	553.65	0.72	ppb
Manganese	55-2	1.04	1.05	1.04	1.04	0.62	ppb
Molybdenum	94-1	5.72	5.67	5.79	5.73	1.05	ppb
Molybdenum	95-1	4.84	4.85	4.85	4.85	0.11	ppb
Molybdenum	96-1	4.92	4.93	4.90	4.91	0.34	ppb
Molybdenum	97-1	4.97	4.83	4.96	4.92	1.56	ppb
Molybdenum	98-1	4.88	4.81	4.82	4.84	0.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.12	1.07	1.07	1.08	2.47	ppb
Phosphorus	31-2	14.64	14.12	15.41	14.72	4.43	ppb
Potassium	39-2	509.99	519.50	514.72	514.74	0.92	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	5.20	5.39	5.25	5.28	1.87	ppb
Selenium	77-2	6.15	5.52	5.34	5.67	7.47	ppb
Selenium	78-2	5.34	5.43	5.57	5.45	2.14	ppb
Silicon	28-1	1.04	3.85	4.21	3.03	57.23	ppb
Silver	107-1	1.02	1.05	1.03	1.03	1.30	ppb
Silver	109-1	1.00	1.04	1.05	1.03	2.42	ppb
Sodium	23-2	506.30	515.13	511.70	511.05	0.87	ppb
Strontium	86-1	0.96	1.01	0.93	0.97	4.48	ppb
Strontium	88-1	0.95	0.96	0.96	0.95	0.29	ppb
Sulfur	34-1	8.89	58.99	21.78	29.88	87.05	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.98	1.00	0.97	0.99	1.30	ppb
Thallium	205-1	0.99	0.99	0.99	0.99	0.06	ppb
Tin	118-1	5.08	5.15	5.09	5.11	0.73	ppb
Titanium	47-1	4.97	4.86	4.87	4.90	1.22	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.95	0.94	0.94	1.06	ppb
Vanadium	51-2	5.02	5.16	5.10	5.10	1.38	ppb
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	5.43	5.56	5.29	5.43	2.56	ppb
Zirconium	90-1	0.98	0.97	0.98	0.98	0.23	ppb
Zirconium	91-1	0.96	0.96	0.95	0.96	1.00	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1132.83	1124.94	1119.49	1125.75	0.60	ppb
Antimony	121-1	48.13	50.61	49.88	49.54	2.57	ppb
Arsenic	75-2	49.37	50.19	49.46	49.67	0.91	ppb
Barium	135-1	237.60	249.24	248.48	245.11	2.66	ppb
Barium	137-1	239.54	258.41	247.88	248.61	3.80	ppb
Beryllium	9-1	48.56	49.97	48.53	49.02	1.67	ppb
Bismuth	209-1				97		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	50.96	53.60	51.50	52.02	2.68	ppb
Cadmium	106-1	49.94	54.13	51.85	51.97	4.04	ppb
Cadmium	111-1	49.94	52.95	51.64	51.51	2.93	ppb
Calcium	43-1	4931.51	5158.76	5254.65	5114.97	3.24	ppb
Calcium	44-1	4730.42	4983.23	4934.34	4882.66	2.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.00	51.42	51.38	51.60	0.68	ppb
Cobalt	59-2	52.31	52.00	51.64	51.98	0.65	ppb
Copper	63-2	539.30	534.26	529.75	534.44	0.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	56-2	2742.60	2707.20	2693.53	2714.44	0.93	ppb
Iron	57-2	2833.02	2787.01	2780.25	2800.10	1.03	ppb
Iron	54-2	2804.39	2742.12	2728.41	2758.31	1.47	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	233.81	251.12	245.60	243.51	3.63	ppb
Lead	207-1	233.37	249.88	249.29	244.18	3.84	ppb
Lead	208-1	235.29	247.44	246.96	243.23	2.83	ppb
Lithium	6-1				100		%
Magnesium	24-2	5687.01	5598.26	5580.93	5622.07	1.01	ppb
Manganese	55-2	522.44	510.15	511.76	514.78	1.30	ppb
Molybdenum	94-1	473.71	489.90	504.24	489.28	3.12	ppb
Molybdenum	95-1	477.22	495.57	505.67	492.82	2.93	ppb
Molybdenum	96-1	481.57	499.35	504.23	495.05	2.41	ppb
Molybdenum	97-1	480.48	495.65	504.20	493.44	2.43	ppb
Molybdenum	98-1	488.34	499.96	508.73	499.01	2.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.61	53.15	52.92	53.23	0.66	ppb
Phosphorus	31-2	1067.76	1026.95	1061.72	1052.14	2.09	ppb
Potassium	39-2	2569.59	2537.49	2535.87	2547.65	0.75	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	49.67	49.93	52.41	50.67	2.98	ppb
Selenium	77-2	47.48	51.28	49.68	49.48	3.86	ppb
Selenium	78-2	53.02	51.02	51.58	51.87	1.98	ppb
Silicon	28-1	57.47	60.16	61.95	59.86	3.76	ppb
Silver	107-1	50.90	52.52	52.83	52.08	2.00	ppb
Silver	109-1	50.39	52.68	52.52	51.87	2.46	ppb
Sodium	23-2	5433.92	5416.75	5441.21	5430.63	0.23	ppb
Strontium	86-1	46.24	48.17	49.63	48.01	3.54	ppb
Strontium	88-1	47.56	49.45	49.73	48.92	2.42	ppb
Sulfur	34-1	970.29	1132.29	1146.80	1083.13	9.05	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	47.86	49.64	50.64	49.38	2.85	ppb
Thallium	205-1	46.19	49.20	49.92	48.44	4.08	ppb
Tin	118-1	48.30	51.33	50.46	50.03	3.11	ppb
Titanium	47-1	480.96	500.24	506.24	495.82	2.66	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	46.48	47.75	47.68	47.30	1.51	ppb
Vanadium	51-2	51.26	50.57	50.24	50.69	1.03	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	532.79	527.18	524.21	528.06	0.83	ppb
Zirconium	90-1	48.35	49.89	50.22	49.49	2.01	ppb
Zirconium	91-1	47.42	49.04	50.43	48.96	3.08	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2620.36	2609.32	2653.76	2627.81	0.88	ppb
Antimony	121-1	115.14	123.16	125.85	121.38	4.59	ppb
Arsenic	75-2	122.58	122.59	123.81	123.00	0.57	ppb
Barium	135-1	570.29	621.00	616.65	602.64	4.66	ppb
Barium	137-1	568.50	614.93	625.86	603.10	5.05	ppb
Beryllium	9-1	111.07	121.24	121.85	118.05	5.13	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	117.92	127.81	127.96	124.56	4.62	ppb
Cadmium	106-1	119.55	127.57	130.38	125.83	4.47	ppb
Cadmium	111-1	119.13	127.91	129.29	125.44	4.39	ppb
Calcium	43-1	11900.20	12681.22	12780.67	12454.03	3.87	ppb
Calcium	44-1	11532.02	12110.80	12304.14	11982.32	3.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	129.75	129.28	128.24	129.09	0.60	ppb
Cobalt	59-2	131.55	129.92	132.09	131.19	0.86	ppb
Copper	63-2	1326.25	1326.47	1331.98	1328.23	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	56-2	6805.29	6812.41	6778.21	6798.64	0.27	ppb
Iron	57-2	6841.80	6660.74	6765.20	6755.91	1.35	ppb
Iron	54-2	6832.00	6872.35	6904.69	6869.68	0.53	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	570.69	603.78	619.52	598.00	4.17	ppb
Lead	207-1	561.92	603.22	614.88	593.34	4.69	ppb
Lead	208-1	567.27	604.95	618.60	596.94	4.45	ppb
Lithium	6-1				103		%
Magnesium	24-2	14153.41	14253.79	14338.65	14248.62	0.65	ppb
Manganese	55-2	1289.85	1291.56	1290.66	1290.69	0.07	ppb
Molybdenum	94-1	1122.14	1215.03	1247.84	1195.00	5.46	ppb
Molybdenum	95-1	1142.84	1218.97	1246.56	1202.79	4.47	ppb
Molybdenum	96-1	1133.32	1214.76	1247.59	1198.56	4.91	ppb
Molybdenum	97-1	1134.37	1212.57	1234.54	1193.83	4.41	ppb
Molybdenum	98-1	1127.55	1218.07	1242.20	1195.94	5.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	131.84	131.57	132.47	131.96	0.35	ppb
Phosphorus	31-2	2643.50	2647.30	2682.63	2657.81	0.81	ppb
Potassium	39-2	6328.98	6283.08	6430.12	6347.39	1.19	ppb
Rhodium	103-1				100		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	116.52	125.43	125.82	122.59	4.29	ppb
Selenium	77-2	129.43	130.37	128.61	129.47	0.68	ppb
Selenium	78-2	126.41	125.54	129.55	127.17	1.66	ppb
Silicon	28-1	122.88	135.08	137.60	131.85	5.97	ppb
Silver	107-1	121.14	128.67	129.26	126.36	3.58	ppb
Silver	109-1	119.68	127.49	130.11	125.76	4.31	ppb
Sodium	23-2	13528.62	13570.95	13622.86	13574.14	0.35	ppb
Strontium	86-1	109.97	117.56	119.77	115.77	4.44	ppb
Strontium	88-1	111.71	119.85	122.49	118.02	4.76	ppb
Sulfur	34-1	2107.86	2369.56	2403.54	2293.66	7.05	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	114.12	120.24	122.13	118.83	3.52	ppb
Thallium	205-1	113.81	119.65	123.09	118.85	3.95	ppb
Tin	118-1	115.60	124.09	125.93	121.88	4.52	ppb
Titanium	47-1	1153.55	1229.31	1242.04	1208.30	3.96	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	110.43	116.95	118.92	115.43	3.85	ppb
Vanadium	51-2	126.52	126.06	127.35	126.64	0.52	ppb
Yttrium	89-1				102		%
Yttrium	89-2				98		%
Zinc	66-2	1292.36	1316.83	1319.66	1309.62	1.15	ppb
Zirconium	90-1	113.36	121.69	124.49	119.84	4.83	ppb
Zirconium	91-1	111.48	120.85	122.58	118.30	5.05	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5324.11	5273.74	5204.96	5267.60	1.14	ppb
Antimony	121-1	247.61	254.88	254.20	252.23	1.59	ppb
Arsenic	75-2	249.14	247.93	249.44	248.84	0.32	ppb
Barium	135-1	1245.43	1263.32	1257.98	1255.58	0.73	ppb
Barium	137-1	1233.77	1262.87	1264.98	1253.87	1.39	ppb
Beryllium	9-1	238.52	244.02	243.96	242.16	1.30	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	257.40	260.71	261.14	259.75	0.79	ppb
Cadmium	106-1	256.91	258.98	260.17	258.69	0.64	ppb
Cadmium	111-1	253.55	257.08	257.68	256.10	0.87	ppb
Calcium	43-1	24241.32	25422.75	24827.80	24830.62	2.38	ppb
Calcium	44-1	24584.35	25285.59	24779.28	24883.07	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	263.47	263.56	265.29	264.11	0.39	ppb
Cobalt	59-2	269.00	265.02	263.28	265.77	1.10	ppb
Copper	63-2	2693.41	2697.55	2660.41	2683.79	0.76	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				101		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	56-2	13769.68	13619.44	13607.87	13665.66	0.66	ppb
Iron	57-2	13792.80	13718.52	13520.54	13677.29	1.03	ppb
Iron	54-2	13868.59	13977.66	13770.47	13872.24	0.75	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1225.79	1248.61	1255.76	1243.39	1.26	ppb
Lead	207-1	1210.18	1230.52	1250.81	1230.50	1.65	ppb
Lead	208-1	1214.17	1238.02	1255.16	1235.78	1.67	ppb
Lithium	6-1				98		%
Magnesium	24-2	28533.81	27986.00	27970.36	28163.39	1.14	ppb
Manganese	55-2	2646.96	2608.98	2621.74	2625.89	0.74	ppb
Molybdenum	94-1	2481.09	2496.53	2531.77	2503.13	1.04	ppb
Molybdenum	95-1	2470.82	2511.32	2544.52	2508.89	1.47	ppb
Molybdenum	96-1	2487.24	2489.12	2544.17	2506.85	1.29	ppb
Molybdenum	97-1	2475.13	2488.41	2539.53	2501.02	1.36	ppb
Molybdenum	98-1	2496.65	2499.18	2554.95	2516.93	1.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	265.18	262.96	263.89	264.01	0.42	ppb
Phosphorus	31-2	5287.79	5305.39	5227.53	5273.57	0.77	ppb
Potassium	39-2	12877.01	12919.05	12787.21	12861.09	0.52	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	251.73	255.56	255.97	254.42	0.92	ppb
Selenium	77-2	246.41	248.28	256.23	250.31	2.08	ppb
Selenium	78-2	256.60	247.00	259.53	254.38	2.58	ppb
Silicon	28-1	263.87	279.17	277.35	273.46	3.06	ppb
Silver	107-1	258.13	261.55	258.82	259.50	0.70	ppb
Silver	109-1	254.80	260.62	262.32	259.25	1.52	ppb
Sodium	23-2	27166.40	27046.76	26684.99	26966.05	0.93	ppb
Strontium	86-1	245.70	247.60	250.71	248.00	1.02	ppb
Strontium	88-1	243.29	248.56	248.81	246.89	1.26	ppb
Sulfur	34-1	4719.70	4786.08	4653.27	4719.68	1.41	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	245.76	244.98	252.85	247.86	1.75	ppb
Thallium	205-1	246.56	247.23	249.09	247.63	0.53	ppb
Tin	118-1	246.29	252.87	254.29	251.15	1.70	ppb
Titanium	47-1	2475.51	2504.07	2488.53	2489.37	0.57	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	241.19	242.98	248.31	244.16	1.52	ppb
Vanadium	51-2	258.02	257.66	259.91	258.53	0.47	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	2657.34	2649.38	2613.66	2640.12	0.88	ppb
Zirconium	90-1	246.75	249.18	256.05	250.66	1.92	ppb
Zirconium	91-1	250.76	250.52	251.38	250.89	0.18	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9898.93	9867.43	9968.86	9911.74	0.52	ppb
Antimony	121-1	485.57	528.80	510.20	508.19	4.27	ppb
Arsenic	75-2	490.97	485.71	494.10	490.26	0.87	ppb
Barium	135-1	2426.95	2621.01	2566.58	2538.18	3.94	ppb
Barium	137-1	2424.35	2633.29	2551.08	2536.24	4.15	ppb
Beryllium	9-1	479.85	537.41	507.00	508.09	5.67	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	489.42	537.16	519.04	515.21	4.68	ppb
Cadmium	106-1	485.03	530.46	519.97	511.82	4.65	ppb
Cadmium	111-1	484.31	525.90	518.70	509.64	4.36	ppb
Calcium	43-1	48073.17	51436.20	50872.04	50127.14	3.59	ppb
Calcium	44-1	47646.23	51430.91	50821.55	49966.23	4.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	509.42	507.54	505.28	507.42	0.41	ppb
Cobalt	59-2	508.83	514.76	508.30	510.63	0.70	ppb
Copper	63-2	5154.64	5165.23	5179.32	5166.40	0.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				104		%
Indium	115-1				99		%
Indium	115-2				100		%
Iron	56-2	26555.27	26556.91	26679.86	26597.35	0.27	ppb
Iron	57-2	26206.74	26415.40	26411.30	26344.48	0.45	ppb
Iron	54-2	26703.36	27053.90	27030.24	26929.17	0.73	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2390.87	2563.12	2536.72	2496.90	3.72	ppb
Lead	207-1	2374.19	2547.61	2519.58	2480.46	3.75	ppb
Lead	208-1	2379.51	2558.40	2516.47	2484.79	3.77	ppb
Lithium	6-1				90		%
Magnesium	24-2	53305.82	52881.10	53699.93	53295.61	0.77	ppb
Manganese	55-2	5076.41	5079.38	5104.71	5086.83	0.31	ppb
Molybdenum	94-1	4800.80	5205.64	5081.25	5029.23	4.12	ppb
Molybdenum	95-1	4843.63	5249.86	5071.08	5054.86	4.03	ppb
Molybdenum	96-1	4796.63	5248.25	5064.30	5036.39	4.51	ppb
Molybdenum	97-1	4737.96	5193.41	5044.40	4991.92	4.65	ppb
Molybdenum	98-1	4818.83	5244.53	5095.61	5052.99	4.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	521.33	516.79	521.85	519.99	0.54	ppb
Phosphorus	31-2	10058.67	10008.97	10101.91	10056.52	0.46	ppb
Potassium	39-2	24713.98	24769.74	24763.84	24749.19	0.12	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	489.54	528.82	510.21	509.52	3.86	ppb
Selenium	77-2	489.20	499.60	517.47	502.09	2.85	ppb
Selenium	78-2	499.15	494.08	504.92	499.38	1.09	ppb
Silicon	28-1	507.24	549.57	544.25	533.69	4.32	ppb
Silver	107-1	493.62	528.58	516.53	512.91	3.46	ppb
Silver	109-1	490.84	531.53	516.33	512.90	4.01	ppb
Sodium	23-2	51185.89	50550.78	51481.62	51072.76	0.93	ppb
Strontium	86-1	475.23	510.90	498.77	494.97	3.66	ppb
Strontium	88-1	473.44	515.85	496.25	495.18	4.29	ppb
Sulfur	34-1	10267.23	11268.02	11199.87	10911.70	5.12	ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	478.39	511.10	502.61	497.37	3.41	ppb
Thallium	205-1	473.20	511.42	497.95	494.19	3.92	ppb
Tin	118-1	482.53	523.28	512.13	505.98	4.16	ppb
Titanium	47-1	4780.02	5222.21	5126.17	5042.80	4.61	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	472.06	506.61	503.91	494.19	3.89	ppb
Vanadium	51-2	507.79	501.72	509.27	506.26	0.79	ppb
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	5106.95	5121.54	5143.37	5123.95	0.36	ppb
Zirconium	90-1	483.39	522.64	511.50	505.84	4.00	ppb
Zirconium	91-1	476.87	523.29	505.52	501.90	4.67	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19452.94	19758.87	19467.72	19559.84	0.88	ppb
Antimony	121-1	1011.13	990.90	985.45	995.82	1.36	ppb
Arsenic	75-2	995.18	1013.86	1007.25	1005.43	0.94	ppb
Barium	135-1	5038.89	4973.70	4935.08	4982.55	1.05	ppb
Barium	137-1	5025.94	4969.18	4956.03	4983.72	0.75	ppb
Beryllium	9-1	997.19	985.62	1013.68	998.83	1.41	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1003.46	981.32	984.96	989.91	1.20	ppb
Cadmium	106-1	1008.80	982.56	983.79	991.72	1.49	ppb
Cadmium	111-1	1011.55	981.09	987.93	993.52	1.61	ppb
Calcium	43-1	97972.74	99789.41	97948.22	98570.12	1.07	ppb
Calcium	44-1	98855.47	99208.93	99338.33	99134.24	0.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	992.82	1001.55	982.15	992.17	0.98	ppb
Cobalt	59-2	999.10	999.88	970.63	989.87	1.68	ppb
Copper	63-2	9868.99	9957.91	9751.16	9859.35	1.05	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	56-2	52163.32	51698.81	51326.29	51729.47	0.81	ppb
Iron	57-2	51754.00	52253.51	50437.45	51481.65	1.82	ppb
Iron	54-2	52715.05	52354.01	52100.76	52389.94	0.59	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4984.04	5040.73	4995.93	5006.90	0.60	ppb
Lead	207-1	4997.54	5049.18	5009.96	5018.89	0.54	ppb
Lead	208-1	4992.44	5050.51	5002.06	5015.00	0.62	ppb
Lithium	6-1				87		%
Magnesium	24-2	106590.02	107299.19	105320.84	106403.35	0.94	ppb
Manganese	55-2	10006.32	9869.93	9881.60	9919.28	0.76	ppb
Molybdenum	94-1	10021.60	9973.94	9980.51	9992.01	0.26	ppb
Molybdenum	95-1	10003.23	9940.80	9985.80	9976.61	0.32	ppb
Molybdenum	96-1	9953.92	10080.84	9925.56	9986.77	0.83	ppb
Molybdenum	97-1	10055.13	10075.72	9902.55	10011.13	0.94	ppb
Molybdenum	98-1	10075.83	9961.02	9891.39	9976.08	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	983.57	999.05	973.79	985.47	1.29	ppb
Phosphorus	31-2	19882.30	20034.00	19726.75	19881.02	0.77	ppb
Potassium	39-2	49024.04	49051.70	48310.19	48795.31	0.86	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				103		%
Selenium	82-1	999.00	994.22	989.98	994.40	0.45	ppb
Selenium	77-2	995.94	1000.74	998.36	998.34	0.24	ppb
Selenium	78-2	998.59	994.82	1003.13	998.85	0.42	ppb
Silicon	28-1	982.21	972.77	973.05	976.01	0.55	ppb
Silver	107-1	1002.46	980.90	989.33	990.90	1.10	ppb
Silver	109-1	1010.97	980.72	981.46	991.05	1.74	ppb
Sodium	23-2	100309.00	101329.86	97699.66	99779.51	1.88	ppb
Strontium	86-1	1006.22	999.77	1006.82	1004.27	0.39	ppb
Strontium	88-1	998.49	1009.39	1004.46	1004.11	0.54	ppb
Sulfur	34-1	19525.16	19697.18	19685.25	19635.86	0.49	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	1000.22	1008.52	999.21	1002.65	0.51	ppb
Thallium	205-1	999.16	1011.18	1002.69	1004.34	0.62	ppb
Tin	118-1	1014.75	991.43	985.15	997.11	1.56	ppb
Titanium	47-1	10023.52	9925.69	10010.82	9986.68	0.53	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1003.74	1002.83	1010.51	1005.69	0.42	ppb
Vanadium	51-2	1006.34	999.57	977.59	994.50	1.51	ppb
Yttrium	89-1				104		%
Yttrium	89-2				102		%
Zinc	66-2	9890.18	10020.17	9772.06	9894.14	1.25	ppb
Zirconium	90-1	995.48	1000.45	996.82	997.58	0.26	ppb
Zirconium	91-1	996.19	1005.98	996.99	999.72	0.54	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100692.86	100353.01	99191.20	100079.02	0.79	ppb
Antimony	121-1	0.75	0.72	0.81	0.76	5.84	ppb
Arsenic	75-2	0.52	0.51	0.56	0.53	4.62	ppb
Barium	135-1	2.51	2.12	2.09	2.24	10.42	ppb
Barium	137-1	2.54	2.15	2.04	2.24	11.81	ppb
Beryllium	9-1	0.24	0.13	0.15	0.17	34.39	ppb
Bismuth	209-1				79		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.45	0.35	0.35	0.39	15.28	ppb
Cadmium	106-1	1.02	0.52	0.57	0.70	39.15	ppb
Cadmium	111-1	0.28	0.15	0.15	0.19	37.30	ppb
Calcium	43-1	503174.01	502317.42	495353.72	500281.71	0.86	ppb
Calcium	44-1	506244.00	498671.04	495674.37	500196.47	1.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.97	2.98	2.97	2.97	0.13	ppb
Cobalt	59-2	2.52	2.55	2.51	2.53	0.86	ppb
Copper	63-2	8.38	8.41	8.24	8.34	1.11	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				91		%
Holmium	165-2				95		%
Indium	115-1				88		%
Indium	115-2				94		%
Iron	56-2	249162.66	251103.43	247994.59	249420.23	0.63	ppb
Iron	57-2	249714.06	248565.09	250204.97	249494.71	0.34	ppb
Iron	54-2	248226.11	251377.46	248123.65	249242.41	0.74	ppb
Krypton	83-1						cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.43	0.99	0.92	1.11	24.89	ppb
Lead	207-1	1.38	0.98	0.89	1.08	24.26	ppb
Lead	208-1	1.39	0.99	0.90	1.09	24.00	ppb
Lithium	6-1				76		%
Magnesium	24-2	493533.03	502385.97	498625.83	498181.61	0.89	ppb
Manganese	55-2	4.87	4.78	4.74	4.80	1.43	ppb
Molybdenum	94-1	3.78	2.75	2.69	3.08	20.00	ppb
Molybdenum	95-1	2.35	1.41	1.32	1.69	33.60	ppb
Molybdenum	96-1	3.90	2.92	2.79	3.20	19.07	ppb
Molybdenum	97-1	2.40	1.41	1.34	1.72	34.64	ppb
Molybdenum	98-1	2.32	1.35	1.26	1.65	35.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.75	3.66	3.64	3.68	1.68	ppb
Phosphorus	31-2	-5.35	-5.64	-0.65	-3.88		ppb
Potassium	39-2	247888.77	253349.72	249496.58	250245.02	1.12	ppb
Rhodium	103-1				83		%
Rhodium	103-2				87		%
Scandium	45-1				91		%
Scandium	45-2				103		%
Selenium	82-1	0.28	0.21	0.34	0.28	23.83	ppb
Selenium	77-2	0.05	0.29	0.59	0.31	87.24	ppb
Selenium	78-2	1.83	1.08	0.62	1.18	51.97	ppb
Silicon	28-1	28.49	26.35	22.42	25.75	11.96	ppb
Silver	107-1	0.18	0.14	0.12	0.15	21.75	ppb
Silver	109-1	0.19	0.14	0.12	0.15	24.43	ppb
Sodium	23-2	499079.01	504709.11	495633.93	499807.35	0.92	ppb
Strontium	86-1	3.02	2.72	2.83	2.86	5.25	ppb
Strontium	88-1	2.98	2.85	2.84	2.89	2.72	ppb
Sulfur	34-1	-373.43	-493.37	-567.55	-478.12		ppb
Terbium	159-1				92		%
Terbium	159-2				94		%
Thallium	203-1	0.16	0.10	0.08	0.11	36.65	ppb
Thallium	205-1	0.15	0.10	0.09	0.11	29.20	ppb
Tin	118-1	0.72	0.63	0.60	0.65	9.39	ppb
Titanium	47-1	2.09	0.97	0.89	1.31	51.03	ppb

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.18	0.06	0.05	0.10	74.10	ppb
Vanadium	51-2	0.19	0.18	0.18	0.18	3.64	ppb
Yttrium	89-1				93		%
Yttrium	89-2				102		%
Zinc	66-2	4.71	4.72	4.66	4.69	0.73	ppb
Zirconium	90-1	0.98	0.84	0.84	0.89	9.23	ppb
Zirconium	91-1	1.03	0.85	0.84	0.90	11.72	ppb

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	507.07	525.68	513.82	515.52	1.83	ppb
Antimony	121-1	190.73	213.39	211.09	205.07	6.08	ppb
Arsenic	75-2	197.16	197.18	201.83	198.72	1.35	ppb
Barium	135-1	95.62	108.33	107.92	103.96	6.95	ppb
Barium	137-1	97.62	110.02	109.18	105.61	6.56	ppb
Beryllium	9-1	89.95	102.62	100.37	97.64	6.92	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	87.72	97.75	98.66	94.71	6.41	ppb
Cadmium	106-1	85.38	96.42	96.63	92.81	6.93	ppb
Cadmium	111-1	97.96	111.33	110.16	106.48	6.95	ppb
Calcium	43-1	1894.39	2104.25	2100.88	2033.17	5.91	ppb
Calcium	44-1	1848.95	2054.88	2045.88	1983.23	5.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	105.48	109.43	107.18	107.36	1.84	ppb
Cobalt	59-2	106.30	109.22	108.79	108.10	1.46	ppb
Copper	63-2	102.93	106.03	104.61	104.52	1.49	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				105		%
Indium	115-1				107		%
Indium	115-2				106		%
Iron	56-2	2121.04	2204.47	2178.72	2168.08	1.97	ppb
Iron	57-2	2174.46	2262.08	2245.33	2227.29	2.09	ppb
Iron	54-2	2233.13	2288.98	2249.45	2257.19	1.27	ppb
Krypton	83-1						cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	191.30	214.26	215.99	207.18	6.65	ppb
Lead	207-1	184.70	203.07	202.99	196.92	5.38	ppb
Lead	208-1	186.78	208.96	208.19	201.31	6.25	ppb
Lithium	6-1				95		%
Magnesium	24-2	1257.26	1266.65	1264.10	1262.67	0.38	ppb
Manganese	55-2	102.47	106.01	104.50	104.33	1.70	ppb
Molybdenum	94-1	0.21	0.22	0.27	0.24	12.25	ppb
Molybdenum	95-1	0.05	0.04	0.04	0.04	15.24	ppb
Molybdenum	96-1	0.07	0.08	0.07	0.08	4.09	ppb
Molybdenum	97-1	0.05	0.04	0.05	0.05	7.29	ppb
Molybdenum	98-1	0.05	0.05	0.04	0.05	15.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	107.69	111.73	109.56	109.66	1.84	ppb
Phosphorus	31-2	-12.53	-12.23	-11.80	-12.19		ppb
Potassium	39-2	2024.60	2044.66	2014.49	2027.92	0.76	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				109		%
Scandium	45-2				111		%
Selenium	82-1	186.41	206.86	205.19	199.49	5.69	ppb
Selenium	77-2	194.20	201.55	200.47	198.74	2.00	ppb
Selenium	78-2	200.69	202.68	206.01	203.13	1.32	ppb
Silicon	28-1	6.80	15.00	13.00	11.60	36.84	ppb
Silver	107-1	50.21	55.25	55.02	53.49	5.32	ppb
Silver	109-1	49.92	55.64	55.40	53.65	6.03	ppb
Sodium	23-2	2066.39	2133.99	2100.33	2100.24	1.61	ppb
Strontium	86-1	0.23	0.31	0.26	0.27	15.44	ppb
Strontium	88-1	0.25	0.27	0.28	0.27	5.17	ppb
Sulfur	34-1	-654.86	-509.68	-555.15	-573.23		ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	188.78	204.44	208.89	200.71	5.26	ppb
Thallium	205-1	186.87	209.12	208.38	201.46	6.27	ppb
Tin	118-1	0.33	0.40	0.35	0.36	9.11	ppb
Titanium	47-1	0.07	0.07	0.06	0.07	8.45	ppb

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	16.26	ppb
Vanadium	51-2	100.61	104.37	102.84	102.60	1.84	ppb
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	195.00	202.66	197.18	198.28	1.99	ppb
Zirconium	90-1	0.09	0.10	0.12	0.10	17.21	ppb
Zirconium	91-1	0.13	0.15	0.16	0.14	11.86	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.12	1.13	0.86	1.04	14.30	ppb
Antimony	121-1	0.09	0.07	0.06	0.07	21.57	ppb
Arsenic	75-2	0.01	0.00	0.01	0.01	55.34	ppb
Barium	135-1	0.05	0.02	0.02	0.03	67.04	ppb
Barium	137-1	0.04	0.03	0.01	0.03	64.18	ppb
Beryllium	9-1	0.05	0.04	0.01	0.03	67.44	ppb
Bismuth	209-1				105		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.07	0.03	0.02	0.04	62.00	ppb
Cadmium	106-1	0.51	-0.05	0.10	0.19	155.78	ppb
Cadmium	111-1	0.06	0.03	0.03	0.04	50.06	ppb
Calcium	43-1	-0.16	-1.96	-1.96	-1.36		ppb
Calcium	44-1	13.26	13.53	11.85	12.88	6.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.01	-0.01	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	15.16	ppb
Copper	63-2	0.00	-0.01	0.00	0.00		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				107		%
Indium	115-1				113		%
Indium	115-2				113		%
Iron	56-2	1.47	1.43	1.49	1.46	2.05	ppb
Iron	57-2	0.99	1.58	1.39	1.32	22.57	ppb
Iron	54-2	0.91	1.36	1.18	1.15	19.97	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.10	0.06	0.04	0.07	42.07	ppb
Lead	207-1	0.09	0.05	0.04	0.06	37.25	ppb
Lead	208-1	0.09	0.06	0.05	0.07	36.33	ppb
Lithium	6-1				98		%
Magnesium	24-2	0.15	0.36	0.43	0.31	47.33	ppb
Manganese	55-2	0.03	0.03	0.01	0.02	47.99	ppb
Molybdenum	94-1	0.02	0.01	0.01	0.01	30.54	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	52.79	ppb
Molybdenum	96-1	0.02	0.01	0.01	0.01	62.77	ppb
Molybdenum	97-1	0.01	0.01	0.00	0.01	44.64	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	35.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	0.01	0.00	0.01	110.21	ppb
Phosphorus	31-2	-17.21	-18.58	-16.65	-17.48		ppb
Potassium	39-2	-2.86	-0.66	0.19	-1.11		ppb
Rhodium	103-1				113		%
Rhodium	103-2				112		%
Scandium	45-1				114		%
Scandium	45-2				117		%
Selenium	82-1	-0.08	-0.07	-0.33	-0.16		ppb
Selenium	77-2	0.04	0.11	-0.03	0.04	163.67	ppb
Selenium	78-2	0.83	0.96	0.42	0.74	38.71	ppb
Silicon	28-1	-1.78	-0.54	-4.30	-2.21		ppb
Silver	107-1	0.04	0.03	0.02	0.03	33.97	ppb
Silver	109-1	0.03	0.02	0.02	0.03	34.13	ppb
Sodium	23-2	7.92	8.15	7.99	8.02	1.47	ppb
Strontium	86-1	-0.01	0.00	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	361.81	ppb
Sulfur	34-1	-698.16	-674.57	-746.15	-706.29		ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	0.07	0.04	0.03	0.05	35.24	ppb
Thallium	205-1	0.07	0.05	0.03	0.05	40.12	ppb
Tin	118-1	0.00	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.02	0.01	-0.01	0.01	236.56	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	113.24	ppb
Vanadium	51-2	0.01	0.01	0.00	0.01	29.78	ppb
Yttrium	89-1				115		%
Yttrium	89-2				115		%
Zinc	66-2	0.05	0.02	0.03	0.03	41.01	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	76.58	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	89502.86	89558.60	89977.53	89679.66	0.29	ppb
Antimony	121-1	1.11	1.13	1.13	1.12	1.16	ppb
Arsenic	75-2	0.30	0.34	0.33	0.32	5.97	ppb
Barium	135-1	1.44	1.47	1.51	1.47	2.28	ppb
Barium	137-1	1.41	1.49	1.52	1.47	3.71	ppb
Beryllium	9-1	0.25	0.34	0.31	0.30	15.86	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.56	8.35	8.17	8.36	2.34	ppb
Cadmium	106-1	-0.24	-0.33	-0.46	-0.34		ppb
Cadmium	111-1	0.34	0.33	0.30	0.32	6.97	ppb
Calcium	43-1	93780.70	98677.23	99454.90	97304.27	3.16	ppb
Calcium	44-1	94625.19	98770.12	98475.04	97290.12	2.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.97	19.93	20.27	20.06	0.93	ppb
Cobalt	59-2	1.22	1.26	1.26	1.25	2.07	ppb
Copper	63-2	7.10	7.13	7.19	7.14	0.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				105		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	56-2	102287.88	102142.68	103466.32	102632.29	0.71	ppb
Iron	57-2	102382.06	102639.15	101959.10	102326.77	0.34	ppb
Iron	54-2	103527.42	103829.38	103444.26	103600.35	0.20	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.89	4.95	4.93	4.92	0.62	ppb
Lead	207-1	4.39	4.47	4.24	4.37	2.66	ppb
Lead	208-1	4.58	4.66	4.56	4.60	1.15	ppb
Lithium	6-1				75		%
Magnesium	24-2	97182.59	98220.25	98102.78	97835.21	0.58	ppb
Manganese	55-2	7.95	8.00	8.07	8.00	0.74	ppb
Molybdenum	94-1	1541.65	1563.00	1571.37	1558.67	0.98	ppb
Molybdenum	95-1	1845.60	1906.11	1899.75	1883.82	1.77	ppb
Molybdenum	96-1	1820.86	1870.98	1861.61	1851.15	1.44	ppb
Molybdenum	97-1	1842.46	1913.19	1909.95	1888.53	2.11	ppb
Molybdenum	98-1	1839.44	1917.92	1911.78	1889.71	2.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.46	5.42	5.26	5.38	2.05	ppb
Phosphorus	31-2	96844.24	98074.87	97923.30	97614.14	0.69	ppb
Potassium	39-2	96952.16	97060.13	99357.98	97790.09	1.39	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				113		%
Selenium	82-1	-0.33	-0.45	-0.49	-0.42		ppb
Selenium	77-2	0.40	0.12	0.11	0.21	78.43	ppb
Selenium	78-2	0.43	0.63	0.10	0.39	68.42	ppb
Silicon	28-1	10.23	14.27	12.75	12.42	16.44	ppb
Silver	107-1	0.04	0.04	0.04	0.04	10.97	ppb
Silver	109-1	0.04	0.04	0.04	0.04	1.79	ppb
Sodium	23-2	96802.13	95541.48	98361.29	96901.64	1.46	ppb
Strontium	86-1	31.14	32.42	32.27	31.94	2.19	ppb
Strontium	88-1	32.41	32.91	32.55	32.62	0.80	ppb
Sulfur	34-1	90383.15	93480.60	92972.72	92278.82	1.80	ppb
Terbium	159-1				109		%
Terbium	159-2				104		%
Thallium	203-1	0.19	0.17	0.15	0.17	13.17	ppb
Thallium	205-1	0.18	0.17	0.15	0.17	8.75	ppb
Tin	118-1	0.28	0.30	0.29	0.29	2.91	ppb
Titanium	47-1	1922.86	2019.97	1974.62	1972.48	2.46	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	3.68	ppb
Vanadium	51-2	0.21	0.21	0.22	0.21	2.66	ppb
Yttrium	89-1				111		%
Yttrium	89-2				112		%
Zinc	66-2	14.77	14.87	14.92	14.85	0.50	ppb
Zirconium	90-1	0.06	0.06	0.06	0.06	3.32	ppb
Zirconium	91-1	0.06	0.07	0.06	0.06	2.60	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	89978.64	89947.50	88153.07	89359.74	1.17	ppb
Antimony	121-1	20.97	21.53	21.84	21.45	2.07	ppb
Arsenic	75-2	20.55	19.75	19.81	20.04	2.22	ppb
Barium	135-1	20.67	21.39	21.78	21.28	2.64	ppb
Barium	137-1	20.96	21.54	22.14	21.55	2.75	ppb
Beryllium	9-1	21.65	21.45	21.78	21.63	0.78	ppb
Bismuth	209-1				99		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	25.01	25.53	25.51	25.35	1.15	ppb
Cadmium	106-1	16.48	16.52	16.59	16.53	0.33	ppb
Cadmium	111-1	19.78	20.33	20.61	20.24	2.08	ppb
Calcium	43-1	95197.11	97733.49	100024.52	97651.71	2.47	ppb
Calcium	44-1	95611.55	97134.72	99760.24	97502.17	2.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.95	40.04	40.11	40.04	0.19	ppb
Cobalt	59-2	21.19	21.01	20.97	21.06	0.56	ppb
Copper	63-2	25.92	25.73	25.69	25.78	0.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				105		%
Iron	56-2	104164.67	104316.90	103458.27	103979.94	0.44	ppb
Iron	57-2	103524.08	103616.72	103223.50	103454.77	0.20	ppb
Iron	54-2	105013.33	104453.46	104348.34	104605.04	0.34	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.55	25.94	25.45	25.31	2.77	ppb
Lead	207-1	22.97	24.39	24.04	23.80	3.11	ppb
Lead	208-1	23.56	25.07	24.53	24.39	3.14	ppb
Lithium	6-1				62		%
Magnesium	24-2	97986.81	97329.79	96395.46	97237.35	0.82	ppb
Manganese	55-2	27.62	27.49	27.60	27.57	0.26	ppb
Molybdenum	94-1	1515.14	1563.23	1556.53	1544.97	1.69	ppb
Molybdenum	95-1	1859.69	1921.79	1884.43	1888.63	1.66	ppb
Molybdenum	96-1	1804.12	1869.84	1856.55	1843.51	1.89	ppb
Molybdenum	97-1	1826.77	1907.36	1904.94	1879.69	2.44	ppb
Molybdenum	98-1	1855.77	1898.86	1905.40	1886.68	1.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.23	24.98	24.53	24.91	1.42	ppb
Phosphorus	31-2	97256.27	96781.58	95793.98	96610.61	0.77	ppb
Potassium	39-2	97998.73	98217.90	98468.67	98228.44	0.24	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				103		%
Scandium	45-2				112		%
Selenium	82-1	18.96	19.59	19.65	19.40	1.99	ppb
Selenium	77-2	19.29	18.81	21.33	19.81	6.74	ppb
Selenium	78-2	21.24	21.51	19.58	20.78	5.02	ppb
Silicon	28-1	8.78	10.14	11.36	10.09	12.79	ppb
Silver	107-1	18.59	19.16	19.51	19.09	2.43	ppb
Silver	109-1	18.65	19.09	19.59	19.11	2.45	ppb
Sodium	23-2	97656.83	96444.52	97942.33	97347.90	0.82	ppb
Strontium	86-1	31.20	32.56	32.41	32.06	2.33	ppb
Strontium	88-1	31.99	32.47	32.86	32.44	1.34	ppb
Sulfur	34-1	86672.00	89820.28	90742.44	89078.24	2.40	ppb
Terbium	159-1				110		%
Terbium	159-2				104		%
Thallium	203-1	19.93	20.81	20.76	20.50	2.40	ppb
Thallium	205-1	19.78	21.05	20.69	20.51	3.20	ppb
Tin	118-1	0.31	0.30	0.29	0.30	2.65	ppb
Titanium	47-1	1920.66	1980.81	1992.48	1964.65	1.96	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	2.68	ppb
Vanadium	51-2	19.69	19.64	19.63	19.65	0.16	ppb
Yttrium	89-1				113		%
Yttrium	89-2				112		%
Zinc	66-2	31.64	31.60	31.82	31.69	0.36	ppb
Zirconium	90-1	0.02	0.01	0.02	0.02	9.50	ppb
Zirconium	91-1	0.03	0.02	0.03	0.02	18.15	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	46810.62	47875.11	47622.99	47436.24	1.17	ppb
Antimony	121-1	478.55	468.10	477.97	474.88	1.24	ppb
Arsenic	75-2	475.60	484.15	483.46	481.07	0.99	ppb
Barium	135-1	2340.00	2349.25	2372.55	2353.93	0.71	ppb
Barium	137-1	2359.60	2350.95	2378.35	2362.97	0.59	ppb
Beryllium	9-1	472.84	487.72	480.83	480.46	1.55	ppb
Bismuth	209-1				93		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	477.22	476.27	480.40	477.96	0.45	ppb
Cadmium	106-1	473.81	476.86	483.58	478.08	1.05	ppb
Cadmium	111-1	478.79	481.47	489.13	483.13	1.11	ppb
Calcium	43-1	233284.59	228030.36	233474.97	231596.64	1.33	ppb
Calcium	44-1	233624.14	228388.70	233933.39	231982.07	1.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	452.55	455.96	460.35	456.29	0.86	ppb
Cobalt	59-2	479.25	484.37	485.26	482.96	0.67	ppb
Copper	63-2	4546.00	4652.12	4636.91	4611.67	1.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				103		%
Indium	115-1				103		%
Indium	115-2				102		%
Iron	56-2	119861.80	120368.43	118921.45	119717.23	0.61	ppb
Iron	57-2	117957.76	120499.41	118919.03	119125.40	1.08	ppb
Iron	54-2	119194.85	120159.58	119882.48	119745.64	0.41	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2363.15	2390.43	2371.65	2375.08	0.59	ppb
Lead	207-1	2342.83	2363.06	2355.49	2353.79	0.43	ppb
Lead	208-1	2342.97	2365.99	2363.81	2357.59	0.54	ppb
Lithium	6-1				75		%
Magnesium	24-2	233330.85	233923.26	234882.74	234045.62	0.33	ppb
Manganese	55-2	4583.58	4628.49	4596.95	4603.00	0.50	ppb
Molybdenum	94-1	4599.62	4701.89	4678.66	4660.06	1.15	ppb
Molybdenum	95-1	4576.48	4639.16	4634.41	4616.68	0.76	ppb
Molybdenum	96-1	4583.87	4658.06	4603.57	4615.17	0.83	ppb
Molybdenum	97-1	4607.43	4631.31	4609.89	4616.21	0.28	ppb
Molybdenum	98-1	4637.44	4687.88	4630.25	4651.86	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	468.37	485.91	482.64	478.97	1.95	ppb
Phosphorus	31-2	9057.51	9124.15	9193.14	9124.93	0.74	ppb
Potassium	39-2	118492.27	119533.48	119103.99	119043.25	0.44	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				105		%
Scandium	45-2				113		%
Selenium	82-1	483.41	489.84	486.06	486.44	0.66	ppb
Selenium	77-2	484.42	491.14	494.68	490.08	1.06	ppb
Selenium	78-2	481.42	492.29	481.44	485.05	1.29	ppb
Silicon	28-1	467.10	448.00	468.79	461.30	2.50	ppb
Silver	107-1	467.92	467.78	478.38	471.36	1.29	ppb
Silver	109-1	467.20	460.35	475.48	467.67	1.62	ppb
Sodium	23-2	235191.62	236324.42	236529.97	236015.33	0.31	ppb
Strontium	86-1	448.74	454.55	452.54	451.94	0.65	ppb
Strontium	88-1	453.46	452.71	453.09	453.09	0.08	ppb
Sulfur	34-1	7612.75	7419.03	9025.65	8019.14	10.94	ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	484.78	474.10	477.07	478.65	1.15	ppb
Thallium	205-1	475.45	477.90	473.76	475.70	0.44	ppb
Tin	118-1	473.52	475.14	487.77	478.81	1.63	ppb
Titanium	47-1	4646.02	4545.41	4721.80	4637.74	1.91	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	479.46	482.34	477.22	479.67	0.54	ppb
Vanadium	51-2	461.34	465.88	461.44	462.89	0.56	ppb
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	4651.96	4774.52	4766.88	4731.12	1.45	ppb
Zirconium	90-1	464.90	470.03	474.44	469.79	1.02	ppb
Zirconium	91-1	466.41	470.23	474.60	470.41	0.87	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.88	0.88	0.90	0.89	1.26	ppb
Antimony	121-1	0.11	0.14	0.16	0.14	16.80	ppb
Arsenic	75-2	0.01	0.01	0.02	0.01	16.66	ppb
Barium	135-1	0.09	0.06	0.06	0.07	21.24	ppb
Barium	137-1	0.09	0.06	0.06	0.07	24.98	ppb
Beryllium	9-1	0.06	0.06	0.04	0.05	24.13	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.01	0.06	0.01	0.02	116.94	ppb
Cadmium	106-1	0.04	-0.13	-0.94	-0.34		ppb
Cadmium	111-1	0.04	0.01	-0.05	0.00		ppb
Calcium	43-1	7.50	3.49	2.60	4.53	57.63	ppb
Calcium	44-1	29.86	27.65	25.92	27.81	7.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.00	0.01	0.00	3417.24	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	14.73	ppb
Copper	63-2	0.08	0.09	0.08	0.08	5.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				114		%
Iron	56-2	3.45	3.28	3.23	3.32	3.46	ppb
Iron	57-2	3.16	3.40	3.22	3.26	3.92	ppb
Iron	54-2	2.97	3.19	2.47	2.87	12.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.15	0.10	0.10	0.12	23.81	ppb
Lead	207-1	0.15	0.11	0.10	0.12	21.67	ppb
Lead	208-1	0.15	0.11	0.10	0.12	21.04	ppb
Lithium	6-1				86		%
Magnesium	24-2	4.90	4.42	4.41	4.58	6.12	ppb
Manganese	55-2	0.10	0.09	0.09	0.09	6.08	ppb
Molybdenum	94-1	0.26	0.20	0.19	0.22	18.92	ppb
Molybdenum	95-1	0.24	0.20	0.17	0.20	18.11	ppb
Molybdenum	96-1	0.24	0.20	0.18	0.21	15.55	ppb
Molybdenum	97-1	0.26	0.19	0.19	0.21	17.95	ppb
Molybdenum	98-1	0.25	0.19	0.18	0.21	19.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.01	0.00	0.01	134.11	ppb
Phosphorus	31-2	-17.23	-17.95	-17.09	-17.42		ppb
Potassium	39-2	13.83	15.62	13.73	14.40	7.38	ppb
Rhodium	103-1				113		%
Rhodium	103-2				114		%
Scandium	45-1				112		%
Scandium	45-2				120		%
Selenium	82-1	-0.34	-0.91	-0.16	-0.47		ppb
Selenium	77-2	0.11	0.11	-0.03	0.06	123.01	ppb
Selenium	78-2	0.03	0.70	0.48	0.40	84.15	ppb
Silicon	28-1	-4.79	-3.94	-5.24	-4.66		ppb
Silver	107-1	0.04	0.03	0.03	0.03	9.40	ppb
Silver	109-1	0.04	0.03	0.03	0.03	19.47	ppb
Sodium	23-2	26.03	26.54	25.41	25.99	2.17	ppb
Strontium	86-1	0.01	0.01	0.01	0.01	11.03	ppb
Strontium	88-1	0.02	0.01	0.01	0.01	41.88	ppb
Sulfur	34-1	-1042.63	-961.63	-1008.34	-1004.20		ppb
Terbium	159-1				112		%
Terbium	159-2				109		%
Thallium	203-1	0.09	0.08	0.06	0.08	18.56	ppb
Thallium	205-1	0.08	0.08	0.07	0.08	11.20	ppb
Tin	118-1	0.02	0.02	0.01	0.02	24.03	ppb
Titanium	47-1	0.23	0.15	0.09	0.16	42.49	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.01	0.01	0.01	27.45	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	19.94	ppb
Yttrium	89-1				116		%
Yttrium	89-2				117		%
Zinc	66-2	0.10	0.08	0.07	0.08	18.78	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	8.49	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	18.57	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.47	0.66	0.44	0.52	22.47	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	25.30	ppb
Arsenic	75-2	0.00	0.00	0.01	0.00	193.03	ppb
Barium	135-1	0.02	0.01	0.01	0.01	35.78	ppb
Barium	137-1	0.02	0.01	0.01	0.01	49.22	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	17.23	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.01	-0.02	-0.01		ppb
Cadmium	106-1	-1.81	-1.32	-0.67	-1.27		ppb
Cadmium	111-1	-0.13	-0.09	-0.04	-0.09		ppb
Calcium	43-1	-1.92	-1.92	-2.51	-2.12		ppb
Calcium	44-1	18.49	16.08	16.44	17.00	7.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	-0.01	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	191.64	ppb
Copper	63-2	0.02	0.01	0.01	0.01	48.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				110		%
Indium	115-1				116		%
Indium	115-2				116		%
Iron	56-2	1.44	1.42	1.19	1.35	10.34	ppb
Iron	57-2	0.93	2.03	0.87	1.28	51.02	ppb
Iron	54-2	1.59	1.87	1.10	1.52	25.43	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.03	0.03	0.03	0.03	7.83	ppb
Lead	207-1	0.04	0.03	0.03	0.03	12.83	ppb
Lead	208-1	0.04	0.03	0.03	0.03	11.31	ppb
Lithium	6-1				81		%
Magnesium	24-2	1.99	1.83	1.86	1.89	4.39	ppb
Manganese	55-2	0.02	0.01	0.02	0.02	35.56	ppb
Molybdenum	94-1	0.04	0.03	0.04	0.04	12.18	ppb
Molybdenum	95-1	0.04	0.03	0.03	0.04	15.14	ppb
Molybdenum	96-1	0.04	0.03	0.02	0.03	24.67	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.04	20.52	ppb
Molybdenum	98-1	0.04	0.03	0.03	0.03	24.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	-0.01	0.00		ppb
Phosphorus	31-2	-19.35	-15.29	-17.25	-17.30		ppb
Potassium	39-2	4.33	6.19	2.27	4.26	46.03	ppb
Rhodium	103-1				116		%
Rhodium	103-2				115		%
Scandium	45-1				114		%
Scandium	45-2				121		%
Selenium	82-1	-0.19	-0.10	-0.30	-0.20		ppb
Selenium	77-2	-0.03	0.10	0.04	0.04	167.76	ppb
Selenium	78-2	0.37	0.36	0.53	0.42	22.14	ppb
Silicon	28-1	0.80	-1.43	-1.87	-0.83		ppb
Silver	107-1	0.00	0.00	0.00	0.00	9.07	ppb
Silver	109-1	0.00	0.00	0.00	0.00	19.25	ppb
Sodium	23-2	15.55	15.66	14.66	15.29	3.59	ppb
Strontium	86-1	0.01	0.01	0.00	0.01	73.63	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	133.13	ppb
Sulfur	34-1	-811.09	-860.91	-803.00	-825.00		ppb
Terbium	159-1				112		%
Terbium	159-2				110		%
Thallium	203-1	0.02	0.02	0.02	0.02	6.40	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.92	ppb
Tin	118-1	0.01	0.01	0.01	0.01	21.99	ppb
Titanium	47-1	0.03	0.00	0.03	0.02	89.75	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	39.54	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	59.48	ppb
Yttrium	89-1				117		%
Yttrium	89-2				121		%
Zinc	66-2	0.00	-0.02	-0.08	-0.03		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	77.61	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	36.39	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	44.11	45.55	44.32	44.66	1.74	ppb
Antimony	121-1	4.07	4.24	4.33	4.21	3.10	ppb
Arsenic	75-2	2.08	2.16	2.12	2.12	1.71	ppb
Barium	135-1	19.35	20.23	20.66	20.08	3.34	ppb
Barium	137-1	19.64	20.68	20.91	20.41	3.32	ppb
Beryllium	9-1	1.90	2.05	2.14	2.03	6.00	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.02	1.94	2.18	2.05	6.09	ppb
Cadmium	106-1	1.99	1.94	2.34	2.09	10.47	ppb
Cadmium	111-1	2.05	2.12	2.25	2.14	4.76	ppb
Calcium	43-1	936.82	988.71	986.61	970.71	3.03	ppb
Calcium	44-1	935.57	985.82	994.58	971.99	3.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.18	4.26	4.19	4.21	1.00	ppb
Cobalt	59-2	2.09	2.11	2.10	2.10	0.52	ppb
Copper	63-2	4.39	4.48	4.32	4.40	1.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				111		%
Indium	115-1				119		%
Indium	115-2				116		%
Iron	56-2	433.22	434.90	432.01	433.37	0.34	ppb
Iron	57-2	440.35	447.25	439.20	442.27	0.98	ppb
Iron	54-2	446.20	451.65	445.54	447.80	0.75	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.03	2.04	2.13	2.06	2.67	ppb
Lead	207-1	1.98	2.05	2.09	2.04	2.56	ppb
Lead	208-1	1.99	2.05	2.10	2.05	2.63	ppb
Lithium	6-1				87		%
Magnesium	24-2	1084.89	1088.73	1081.26	1084.96	0.34	ppb
Manganese	55-2	2.13	2.15	2.08	2.12	1.68	ppb
Molybdenum	94-1	10.94	11.64	11.53	11.37	3.30	ppb
Molybdenum	95-1	9.11	9.70	9.73	9.51	3.69	ppb
Molybdenum	96-1	9.29	9.94	9.81	9.68	3.55	ppb
Molybdenum	97-1	9.11	9.71	9.76	9.52	3.81	ppb
Molybdenum	98-1	9.19	9.73	9.73	9.55	3.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.23	2.12	2.13	2.16	2.68	ppb
Phosphorus	31-2	-18.40	-17.58	-19.15	-18.38		ppb
Potassium	39-2	1031.40	1044.10	1036.85	1037.45	0.61	ppb
Rhodium	103-1				118		%
Rhodium	103-2				116		%
Scandium	45-1				117		%
Scandium	45-2				121		%
Selenium	82-1	10.03	10.29	10.49	10.27	2.22	ppb
Selenium	77-2	10.68	11.10	11.69	11.16	4.54	ppb
Selenium	78-2	11.73	11.07	12.05	11.62	4.29	ppb
Silicon	28-1	7.47	11.62	14.51	11.20	31.58	ppb
Silver	107-1	2.01	2.09	2.17	2.09	3.76	ppb
Silver	109-1	1.97	2.11	2.14	2.07	4.40	ppb
Sodium	23-2	1032.98	1043.32	1042.41	1039.57	0.55	ppb
Strontium	86-1	1.78	1.88	1.91	1.86	3.69	ppb
Strontium	88-1	1.82	1.94	1.94	1.90	3.63	ppb
Sulfur	34-1	-898.23	-769.23	-785.29	-817.58		ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	1.89	1.96	2.02	1.96	3.31	ppb
Thallium	205-1	1.95	2.02	2.00	1.99	1.75	ppb
Tin	118-1	0.07	0.07	0.08	0.07	10.35	ppb
Titanium	47-1	9.31	9.78	9.91	9.67	3.27	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.78	1.85	1.88	1.84	2.81	ppb
Vanadium	51-2	10.11	10.23	10.08	10.14	0.80	ppb
Yttrium	89-1				121		%
Yttrium	89-2				121		%
Zinc	66-2	11.04	10.73	11.02	10.93	1.58	ppb
Zirconium	90-1	1.87	2.03	2.00	1.97	4.26	ppb
Zirconium	91-1	1.90	2.00	1.98	1.96	2.76	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.25	0.24	0.26	0.25	5.94	ppb
Antimony	121-1	0.01	0.01	0.02	0.01	32.94	ppb
Arsenic	75-2	0.00	-0.01	0.00	0.00		ppb
Barium	135-1	0.00	0.00	0.00	0.00		ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.01	0.01	0.00	0.00	86.98	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.01	-0.02	0.00	728.73	ppb
Cadmium	106-1	-0.20	-0.26	-0.37	-0.27		ppb
Cadmium	111-1	-0.01	-0.02	-0.02	-0.02		ppb
Calcium	43-1	-2.25	-2.15	-2.50	-2.30		ppb
Calcium	44-1	13.61	12.24	14.31	13.39	7.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	-0.01	0.00		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.01	-0.01	-0.01	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				109		%
Indium	115-1				116		%
Indium	115-2				116		%
Iron	56-2	0.84	0.95	0.97	0.92	7.39	ppb
Iron	57-2	0.97	1.14	0.93	1.02	11.01	ppb
Iron	54-2	0.86	1.09	0.84	0.93	14.88	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	0.02	0.02	0.02	11.15	ppb
Lead	207-1	0.01	0.02	0.02	0.02	17.58	ppb
Lead	208-1	0.02	0.02	0.02	0.02	4.96	ppb
Lithium	6-1				86		%
Magnesium	24-2	0.99	0.94	0.98	0.97	2.89	ppb
Manganese	55-2	0.00	0.00	0.01	0.00	246.29	ppb
Molybdenum	94-1	0.01	0.02	0.02	0.02	23.45	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	16.62	ppb
Molybdenum	96-1	0.01	0.00	0.01	0.01	31.33	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	56.22	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	18.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.00	0.00	0.00		ppb
Phosphorus	31-2	-19.07	-16.94	-15.97	-17.33		ppb
Potassium	39-2	3.35	3.80	1.76	2.97	35.95	ppb
Rhodium	103-1				116		%
Rhodium	103-2				115		%
Scandium	45-1				114		%
Scandium	45-2				121		%
Selenium	82-1	-0.48	-0.37	-0.27	-0.37		ppb
Selenium	77-2	0.04	-0.03	-0.03	0.00		ppb
Selenium	78-2	0.67	0.83	0.44	0.65	30.56	ppb
Silicon	28-1	0.71	-1.86	1.73	0.19	957.82	ppb
Silver	107-1	0.01	0.01	0.01	0.01	5.37	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.21	ppb
Sodium	23-2	12.71	13.00	12.51	12.74	1.96	ppb
Strontium	86-1	0.00	0.00	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-730.78	-758.25	-655.59	-714.87		ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	0.01	0.02	0.02	0.02	14.29	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	10.67	ppb
Tin	118-1	0.00	0.00	0.00	0.00	42.97	ppb
Titanium	47-1	0.02	0.01	0.00	0.01	148.30	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	95.11	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	45.81	ppb
Yttrium	89-1				118		%
Yttrium	89-2				119		%
Zinc	66-2	-0.06	-0.05	-0.04	-0.05		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	3883.79	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	129.83	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.85	40.47	40.28	40.20	0.80	ppb
Antimony	121-1	4.33	4.35	4.38	4.36	0.58	ppb
Arsenic	75-2	2.18	2.13	2.07	2.13	2.50	ppb
Barium	135-1	20.82	20.92	20.79	20.84	0.34	ppb
Barium	137-1	20.94	21.24	21.10	21.09	0.72	ppb
Beryllium	9-1	2.00	2.02	2.03	2.02	0.88	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.10	2.38	2.25	2.24	6.31	ppb
Cadmium	106-1	2.66	2.57	2.32	2.52	7.07	ppb
Cadmium	111-1	2.25	2.27	2.23	2.25	0.78	ppb
Calcium	43-1	990.16	1017.70	1019.01	1008.96	1.61	ppb
Calcium	44-1	1018.45	999.78	1005.71	1007.98	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.16	4.27	4.28	4.24	1.50	ppb
Cobalt	59-2	2.15	2.15	2.17	2.16	0.67	ppb
Copper	63-2	4.31	4.33	4.37	4.34	0.65	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				117		%
Indium	115-2				114		%
Iron	56-2	440.15	442.21	446.01	442.79	0.67	ppb
Iron	57-2	446.99	450.20	445.98	447.72	0.49	ppb
Iron	54-2	449.61	456.47	457.23	454.44	0.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.14	2.17	2.12	2.15	1.14	ppb
Lead	207-1	2.11	2.15	2.16	2.14	1.33	ppb
Lead	208-1	2.13	2.15	2.14	2.14	0.55	ppb
Lithium	6-1				89		%
Magnesium	24-2	1116.33	1109.88	1119.34	1115.18	0.43	ppb
Manganese	55-2	2.17	2.22	2.13	2.18	2.17	ppb
Molybdenum	94-1	11.71	11.92	11.87	11.83	0.90	ppb
Molybdenum	95-1	9.85	9.95	9.82	9.87	0.72	ppb
Molybdenum	96-1	10.14	10.03	10.13	10.10	0.65	ppb
Molybdenum	97-1	9.87	9.90	10.02	9.93	0.82	ppb
Molybdenum	98-1	9.94	10.01	10.00	9.98	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.16	2.20	2.16	2.17	1.10	ppb
Phosphorus	31-2	-18.73	-16.58	-16.12	-17.14		ppb
Potassium	39-2	1045.76	1041.37	1055.49	1047.54	0.69	ppb
Rhodium	103-1				116		%
Rhodium	103-2				114		%
Scandium	45-1				114		%
Scandium	45-2				120		%
Selenium	82-1	10.88	10.59	10.80	10.76	1.38	ppb
Selenium	77-2	11.62	11.60	10.38	11.20	6.32	ppb
Selenium	78-2	11.28	11.10	11.98	11.45	4.05	ppb
Silicon	28-1	14.19	13.47	16.26	14.64	9.86	ppb
Silver	107-1	2.11	2.19	2.16	2.15	1.71	ppb
Silver	109-1	2.14	2.15	2.16	2.15	0.61	ppb
Sodium	23-2	1052.00	1068.19	1054.08	1058.09	0.83	ppb
Strontium	86-1	1.99	1.93	2.00	1.97	1.87	ppb
Strontium	88-1	1.97	1.97	1.98	1.98	0.24	ppb
Sulfur	34-1	-594.55	-615.84	-573.66	-594.69		ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	2.08	2.10	2.09	2.09	0.53	ppb
Thallium	205-1	2.06	2.09	2.09	2.08	0.76	ppb
Tin	118-1	0.04	0.02	0.03	0.03	26.76	ppb
Titanium	47-1	9.96	10.27	10.05	10.09	1.58	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.93	1.96	1.95	1.95	0.88	ppb
Vanadium	51-2	10.19	10.18	10.22	10.20	0.23	ppb
Yttrium	89-1				119		%
Yttrium	89-2				119		%
Zinc	66-2	10.85	10.87	11.03	10.92	0.91	ppb
Zirconium	90-1	2.02	2.02	2.03	2.02	0.36	ppb
Zirconium	91-1	2.05	2.05	2.01	2.03	1.15	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.13	19.89	20.11	20.04	0.66	ppb
Antimony	121-1	2.16	2.15	2.20	2.17	1.32	ppb
Arsenic	75-2	1.01	1.03	0.98	1.01	2.45	ppb
Barium	135-1	10.12	10.30	10.48	10.30	1.75	ppb
Barium	137-1	10.34	10.37	10.54	10.41	1.05	ppb
Beryllium	9-1	1.01	1.06	1.20	1.09	8.96	ppb
Bismuth	209-1				107		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.10	0.88	1.20	1.06	15.52	ppb
Cadmium	106-1	0.99	1.12	1.68	1.26	28.84	ppb
Cadmium	111-1	1.06	1.12	1.16	1.11	4.64	ppb
Calcium	43-1	480.88	488.10	504.05	491.01	2.42	ppb
Calcium	44-1	505.06	509.78	514.46	509.77	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.11	2.05	2.13	2.09	2.04	ppb
Cobalt	59-2	1.08	1.04	1.08	1.07	2.35	ppb
Copper	63-2	2.17	2.04	2.19	2.13	3.81	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				108		%
Indium	115-1				115		%
Indium	115-2				113		%
Iron	56-2	220.83	215.39	221.20	219.14	1.48	ppb
Iron	57-2	227.80	223.55	228.20	226.52	1.14	ppb
Iron	54-2	230.64	222.19	228.73	227.19	1.95	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.05	1.06	1.06	1.06	0.42	ppb
Lead	207-1	1.06	1.04	1.02	1.04	1.80	ppb
Lead	208-1	1.04	1.06	1.04	1.05	1.15	ppb
Lithium	6-1				89		%
Magnesium	24-2	544.15	528.73	544.69	539.19	1.68	ppb
Manganese	55-2	1.08	1.02	1.02	1.04	2.89	ppb
Molybdenum	94-1	5.76	5.89	5.99	5.88	1.99	ppb
Molybdenum	95-1	4.75	4.91	4.95	4.87	2.17	ppb
Molybdenum	96-1	4.84	5.03	5.11	4.99	2.73	ppb
Molybdenum	97-1	4.78	4.83	4.96	4.86	1.97	ppb
Molybdenum	98-1	4.85	4.91	4.92	4.90	0.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.09	1.12	1.12	1.11	1.62	ppb
Phosphorus	31-2	-16.55	-18.15	-17.02	-17.24		ppb
Potassium	39-2	537.60	517.47	542.46	532.51	2.49	ppb
Rhodium	103-1				116		%
Rhodium	103-2				113		%
Scandium	45-1				114		%
Scandium	45-2				117		%
Selenium	82-1	4.60	5.06	5.42	5.03	8.20	ppb
Selenium	77-2	4.92	5.16	5.54	5.21	6.04	ppb
Selenium	78-2	6.27	5.77	5.97	6.00	4.16	ppb
Silicon	28-1	4.30	3.71	7.33	5.11	38.01	ppb
Silver	107-1	1.04	1.09	1.09	1.07	2.36	ppb
Silver	109-1	1.02	1.07	1.10	1.07	3.74	ppb
Sodium	23-2	512.39	500.63	513.81	508.95	1.42	ppb
Strontium	86-1	0.97	1.01	0.95	0.97	3.24	ppb
Strontium	88-1	0.96	0.98	1.00	0.98	1.64	ppb
Sulfur	34-1	-625.80	-604.50	-539.71	-590.00		ppb
Terbium	159-1				111		%
Terbium	159-2				108		%
Thallium	203-1	1.00	1.03	1.01	1.01	1.54	ppb
Thallium	205-1	0.99	1.03	1.02	1.02	1.88	ppb
Tin	118-1	0.02	0.01	0.02	0.02	38.15	ppb
Titanium	47-1	4.90	4.87	4.99	4.92	1.28	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.95	0.95	0.94	1.41	ppb
Vanadium	51-2	5.18	4.99	5.12	5.09	1.93	ppb
Yttrium	89-1				117		%
Yttrium	89-2				117		%
Zinc	66-2	5.70	5.47	5.59	5.59	2.10	ppb
Zirconium	90-1	1.01	1.00	1.03	1.01	1.31	ppb
Zirconium	91-1	0.99	1.03	1.05	1.03	3.01	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9326.34	9411.40	9352.54	9363.43	0.47	ppb
Antimony	121-1	0.04	0.05	0.06	0.05	13.77	ppb
Arsenic	75-2	3.21	3.15	3.33	3.23	2.78	ppb
Barium	135-1	194.42	192.86	195.95	194.41	0.80	ppb
Barium	137-1	197.88	198.92	197.36	198.06	0.40	ppb
Beryllium	9-1	1.23	1.20	1.40	1.28	8.60	ppb
Bismuth	209-1				109		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.31	0.26	0.42	0.33	23.90	ppb
Cadmium	106-1	0.99	0.93	0.60	0.84	25.41	ppb
Cadmium	111-1	0.15	0.14	0.12	0.14	11.56	ppb
Calcium	43-1	13070.61	13564.90	13576.39	13403.96	2.15	ppb
Calcium	44-1	12801.01	13214.91	13299.72	13105.21	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.83	18.78	18.85	18.82	0.20	ppb
Cobalt	59-2	13.80	13.87	13.93	13.86	0.48	ppb
Copper	63-2	270.11	275.32	267.22	270.88	1.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				108		%
Indium	115-1				118		%
Indium	115-2				113		%
Iron	56-2	13432.69	13504.16	13708.11	13548.32	1.05	ppb
Iron	57-2	13485.09	13470.85	13279.92	13411.95	0.85	ppb
Iron	54-2	13418.54	13622.37	13524.46	13521.79	0.75	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.78	13.94	14.14	13.95	1.27	ppb
Lead	207-1	12.88	13.03	12.99	12.97	0.59	ppb
Lead	208-1	13.32	13.45	13.37	13.38	0.48	ppb
Lithium	6-1				72		%
Magnesium	24-2	9544.29	9650.19	9709.35	9634.61	0.87	ppb
Manganese	55-2	597.29	612.48	604.70	604.82	1.26	ppb
Molybdenum	94-1	3.08	3.17	3.11	3.12	1.50	ppb
Molybdenum	95-1	0.06	0.05	0.07	0.06	11.10	ppb
Molybdenum	96-1	0.44	0.44	0.45	0.44	0.63	ppb
Molybdenum	97-1	0.06	0.06	0.06	0.06	4.31	ppb
Molybdenum	98-1	0.05	0.06	0.05	0.05	6.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.11	27.96	28.13	28.07	0.33	ppb
Phosphorus	31-2	887.81	894.12	880.38	887.44	0.78	ppb
Potassium	39-2	1585.85	1588.65	1585.79	1586.76	0.10	ppb
Rhodium	103-1				116		%
Rhodium	103-2				115		%
Scandium	45-1				114		%
Scandium	45-2				120		%
Selenium	82-1	0.13	-0.27	-0.14	-0.09		ppb
Selenium	77-2	12.18	10.84	12.67	11.90	7.98	ppb
Selenium	78-2	2.24	2.39	3.22	2.62	19.99	ppb
Silicon	28-1	3897.90	3991.77	3885.01	3924.89	1.48	ppb
Silver	107-1	0.24	0.23	0.23	0.23	0.89	ppb
Silver	109-1	0.23	0.23	0.22	0.23	3.35	ppb
Sodium	23-2	597.78	618.61	597.21	604.53	2.02	ppb
Strontium	86-1	43.15	44.82	43.82	43.93	1.91	ppb
Strontium	88-1	44.61	46.26	45.22	45.36	1.84	ppb
Sulfur	34-1	-922.83	-903.84	-988.68	-938.45		ppb
Terbium	159-1				116		%
Terbium	159-2				108		%
Thallium	203-1	0.27	0.25	0.26	0.26	4.03	ppb
Thallium	205-1	0.28	0.27	0.26	0.27	4.39	ppb
Tin	118-1	1.17	1.16	1.23	1.19	3.01	ppb
Titanium	47-1	68.53	72.36	71.95	70.95	2.97	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.23	1.25	1.19	1.22	2.27	ppb
Vanadium	51-2	25.80	26.27	26.11	26.06	0.92	ppb
Yttrium	89-1				126		%
Yttrium	89-2				123		%
Zinc	66-2	55.91	56.67	56.55	56.38	0.73	ppb
Zirconium	90-1	1.71	1.77	1.71	1.73	2.07	ppb
Zirconium	91-1	1.73	1.75	1.76	1.74	1.02	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10020.14	10402.91	10104.00	10175.68	1.98	ppb
Antimony	121-1	0.05	0.06	0.06	0.06	7.24	ppb
Arsenic	75-2	4.46	4.44	4.61	4.50	2.09	ppb
Barium	135-1	200.16	199.83	201.58	200.52	0.46	ppb
Barium	137-1	204.55	206.06	211.57	207.39	1.78	ppb
Beryllium	9-1	1.67	1.66	1.59	1.64	2.44	ppb
Bismuth	209-1				107		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.69	0.63	0.60	0.64	6.60	ppb
Cadmium	106-1	0.80	-0.13	0.11	0.26	184.77	ppb
Cadmium	111-1	0.11	0.04	0.08	0.08	44.88	ppb
Calcium	43-1	18369.23	19085.00	18849.99	18768.07	1.94	ppb
Calcium	44-1	18487.77	19289.82	18644.34	18807.31	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.55	19.85	19.53	19.64	0.89	ppb
Cobalt	59-2	15.88	16.20	15.71	15.93	1.55	ppb
Copper	63-2	558.31	563.51	556.77	559.53	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				106		%
Indium	115-1				113		%
Indium	115-2				109		%
Iron	56-2	15975.66	16357.18	15879.59	16070.81	1.57	ppb
Iron	57-2	15700.65	16186.42	15639.36	15842.14	1.89	ppb
Iron	54-2	15913.83	16169.53	15768.13	15950.50	1.27	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.43	15.27	15.08	15.26	1.15	ppb
Lead	207-1	14.21	13.89	13.98	14.02	1.18	ppb
Lead	208-1	14.64	14.51	14.53	14.56	0.47	ppb
Lithium	6-1				57		%
Magnesium	24-2	10720.07	10867.51	10430.95	10672.84	2.08	ppb
Manganese	55-2	762.93	777.68	750.14	763.58	1.81	ppb
Molybdenum	94-1	4.48	4.74	4.75	4.65	3.31	ppb
Molybdenum	95-1	0.06	0.06	0.07	0.06	2.24	ppb
Molybdenum	96-1	0.62	0.62	0.63	0.62	1.27	ppb
Molybdenum	97-1	0.06	0.07	0.07	0.06	8.02	ppb
Molybdenum	98-1	0.05	0.06	0.06	0.06	9.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	31.92	32.73	31.75	32.13	1.63	ppb
Phosphorus	31-2	934.32	952.81	912.42	933.18	2.17	ppb
Potassium	39-2	1751.43	1812.15	1749.93	1771.17	2.00	ppb
Rhodium	103-1				113		%
Rhodium	103-2				113		%
Scandium	45-1				104		%
Scandium	45-2				118		%
Selenium	82-1	-0.18	-0.12	-0.19	-0.17		ppb
Selenium	77-2	12.62	13.92	13.44	13.33	4.91	ppb
Selenium	78-2	2.88	2.59	2.37	2.61	9.75	ppb
Silicon	28-1	3318.12	3586.68	3528.34	3477.71	4.06	ppb
Silver	107-1	0.36	0.37	0.39	0.37	3.42	ppb
Silver	109-1	0.35	0.37	0.37	0.36	4.23	ppb
Sodium	23-2	533.87	541.58	531.81	535.75	0.96	ppb
Strontium	86-1	47.70	48.25	49.40	48.45	1.78	ppb
Strontium	88-1	48.98	50.07	50.89	49.98	1.92	ppb
Sulfur	34-1	-1065.34	-974.85	-962.69	-1000.96		ppb
Terbium	159-1				114		%
Terbium	159-2				108		%
Thallium	203-1	0.25	0.23	0.26	0.25	5.13	ppb
Thallium	205-1	0.25	0.24	0.25	0.25	1.45	ppb
Tin	118-1	0.55	0.56	0.57	0.56	1.85	ppb
Titanium	47-1	84.68	88.78	87.42	86.96	2.40	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.83	1.82	1.82	1.82	0.23	ppb
Vanadium	51-2	30.89	31.52	30.64	31.02	1.46	ppb
Yttrium	89-1				121		%
Yttrium	89-2				120		%
Zinc	66-2	66.38	66.74	66.27	66.46	0.38	ppb
Zirconium	90-1	2.55	2.59	2.57	2.57	0.78	ppb
Zirconium	91-1	2.57	2.59	2.63	2.60	1.21	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7669.56	7873.65	7583.11	7708.78	1.94	ppb
Antimony	121-1	0.05	0.06	0.05	0.05	11.03	ppb
Arsenic	75-2	3.39	3.16	3.14	3.23	4.17	ppb
Barium	135-1	180.66	186.11	181.42	182.73	1.62	ppb
Barium	137-1	183.24	189.38	182.46	185.03	2.05	ppb
Beryllium	9-1	1.17	1.18	1.11	1.15	3.31	ppb
Bismuth	209-1				108		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.38	0.35	0.33	0.36	7.25	ppb
Cadmium	106-1	0.28	-0.09	-0.55	-0.12		ppb
Cadmium	111-1	0.07	0.04	0.00	0.04	91.14	ppb
Calcium	43-1	11885.42	12183.25	11931.92	12000.20	1.34	ppb
Calcium	44-1	11784.84	12107.27	11760.78	11884.30	1.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	15.64	16.05	15.64	15.78	1.51	ppb
Cobalt	59-2	11.60	11.66	11.57	11.61	0.41	ppb
Copper	63-2	403.74	402.99	401.20	402.64	0.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				107		%
Indium	115-1				115		%
Indium	115-2				109		%
Iron	56-2	10812.92	11095.36	10853.50	10920.59	1.40	ppb
Iron	57-2	10779.07	11154.13	10830.66	10921.29	1.86	ppb
Iron	54-2	10849.26	11272.52	10917.01	11012.93	2.06	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.01	13.55	13.49	13.35	2.22	ppb
Lead	207-1	12.30	12.19	12.42	12.30	0.96	ppb
Lead	208-1	12.52	12.84	12.74	12.70	1.32	ppb
Lithium	6-1				58		%
Magnesium	24-2	7918.89	8044.78	7866.50	7943.39	1.15	ppb
Manganese	55-2	494.04	501.45	497.25	497.58	0.75	ppb
Molybdenum	94-1	3.55	3.65	3.66	3.62	1.66	ppb
Molybdenum	95-1	0.04	0.05	0.05	0.04	8.55	ppb
Molybdenum	96-1	0.47	0.48	0.49	0.48	2.18	ppb
Molybdenum	97-1	0.04	0.04	0.05	0.04	18.66	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	3.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	22.94	23.30	22.82	23.02	1.09	ppb
Phosphorus	31-2	912.85	922.93	896.05	910.61	1.49	ppb
Potassium	39-2	1467.29	1498.54	1440.63	1468.82	1.97	ppb
Rhodium	103-1				113		%
Rhodium	103-2				112		%
Scandium	45-1				102		%
Scandium	45-2				115		%
Selenium	82-1	-0.53	-0.29	-0.48	-0.43		ppb
Selenium	77-2	12.68	12.67	12.85	12.73	0.83	ppb
Selenium	78-2	2.84	2.38	2.30	2.51	11.57	ppb
Silicon	28-1	3316.95	3279.77	3202.00	3266.24	1.80	ppb
Silver	107-1	0.29	0.31	0.29	0.30	2.62	ppb
Silver	109-1	0.29	0.31	0.31	0.30	3.02	ppb
Sodium	23-2	528.23	539.96	527.67	531.95	1.31	ppb
Strontium	86-1	43.62	45.55	45.28	44.82	2.33	ppb
Strontium	88-1	44.53	46.58	45.54	45.55	2.25	ppb
Sulfur	34-1	-1082.79	-1088.37	-1175.14	-1115.43		ppb
Terbium	159-1				114		%
Terbium	159-2				108		%
Thallium	203-1	0.18	0.19	0.19	0.18	3.88	ppb
Thallium	205-1	0.18	0.18	0.18	0.18	0.56	ppb
Tin	118-1	0.48	0.50	0.46	0.48	3.60	ppb
Titanium	47-1	65.40	66.41	64.11	65.31	1.77	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.21	1.23	1.23	1.23	0.84	ppb
Vanadium	51-2	22.75	22.94	22.48	22.73	1.02	ppb
Yttrium	89-1				120		%
Yttrium	89-2				118		%
Zinc	66-2	48.43	48.66	47.82	48.30	0.90	ppb
Zirconium	90-1	1.98	2.06	2.02	2.02	1.83	ppb
Zirconium	91-1	1.95	2.10	2.05	2.03	3.62	ppb

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13702.97	13634.83	13646.31	13661.37	0.27	ppb
Antimony	121-1	0.05	0.05	0.06	0.05	7.41	ppb
Arsenic	75-2	26.19	26.00	26.55	26.25	1.06	ppb
Barium	135-1	264.77	267.65	264.82	265.75	0.62	ppb
Barium	137-1	267.92	277.01	259.13	268.02	3.34	ppb
Beryllium	9-1	1.83	1.86	1.98	1.89	4.20	ppb
Bismuth	209-1				110		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.74	0.69	0.80	0.75	7.45	ppb
Cadmium	106-1	0.50	0.29	-0.01	0.26	96.89	ppb
Cadmium	111-1	0.35	0.32	0.29	0.32	8.95	ppb
Calcium	43-1	25989.28	27306.37	26653.99	26649.88	2.47	ppb
Calcium	44-1	25848.91	27068.22	26425.39	26447.51	2.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.80	30.18	30.94	30.64	1.31	ppb
Cobalt	59-2	21.96	22.01	22.07	22.02	0.25	ppb
Copper	63-2	5526.70	5501.28	5604.22	5544.07	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				107		%
Indium	115-1				114		%
Indium	115-2				108		%
Iron	56-2	20829.83	21241.55	21125.60	21065.66	1.01	ppb
Iron	57-2	21098.83	20815.31	21014.63	20976.26	0.69	ppb
Iron	54-2	20803.14	20730.75	21204.50	20912.80	1.22	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	19.53	19.65	19.72	19.63	0.50	ppb
Lead	207-1	17.86	18.22	18.07	18.05	1.02	ppb
Lead	208-1	18.62	19.01	18.79	18.81	1.05	ppb
Lithium	6-1				54		%
Magnesium	24-2	14196.89	14265.40	14192.20	14218.16	0.29	ppb
Manganese	55-2	1128.92	1128.90	1142.01	1133.28	0.67	ppb
Molybdenum	94-1	4.92	4.97	5.05	4.98	1.32	ppb
Molybdenum	95-1	0.09	0.09	0.08	0.09	4.22	ppb
Molybdenum	96-1	0.70	0.72	0.70	0.71	1.61	ppb
Molybdenum	97-1	0.09	0.08	0.07	0.08	8.94	ppb
Molybdenum	98-1	0.06	0.07	0.07	0.07	8.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	42.95	42.89	43.22	43.02	0.40	ppb
Phosphorus	31-2	1175.41	1157.51	1162.98	1165.30	0.79	ppb
Potassium	39-2	2157.03	2130.28	2175.20	2154.17	1.05	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				100		%
Scandium	45-2				115		%
Selenium	82-1	-0.06	-0.17	-0.10	-0.11		ppb
Selenium	77-2	17.05	17.47	17.34	17.29	1.25	ppb
Selenium	78-2	3.37	3.70	3.84	3.64	6.69	ppb
Silicon	28-1	3997.98	4231.80	4128.82	4119.53	2.84	ppb
Silver	107-1	1.74	1.74	1.73	1.74	0.37	ppb
Silver	109-1	1.72	1.73	1.72	1.72	0.52	ppb
Sodium	23-2	747.56	736.03	742.13	741.91	0.78	ppb
Strontium	86-1	64.00	63.69	64.53	64.08	0.66	ppb
Strontium	88-1	65.55	64.90	66.57	65.67	1.28	ppb
Sulfur	34-1	-933.48	-838.67	-855.96	-876.04		ppb
Terbium	159-1				115		%
Terbium	159-2				107		%
Thallium	203-1	0.22	0.25	0.25	0.24	6.59	ppb
Thallium	205-1	0.25	0.24	0.24	0.24	1.27	ppb
Tin	118-1	0.91	0.69	0.68	0.76	16.86	ppb
Titanium	47-1	91.88	96.82	95.77	94.82	2.75	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.11	2.15	2.10	2.12	1.31	ppb
Vanadium	51-2	40.16	40.07	40.49	40.24	0.55	ppb
Yttrium	89-1				121		%
Yttrium	89-2				117		%
Zinc	66-2	90.15	89.11	91.27	90.18	1.20	ppb
Zirconium	90-1	2.77	2.73	2.74	2.75	0.86	ppb
Zirconium	91-1	2.73	2.70	2.74	2.72	0.66	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8865.54	9047.20	8929.96	8947.57	1.03	ppb
Antimony	121-1	0.04	0.04	0.05	0.04	4.79	ppb
Arsenic	75-2	4.03	3.76	3.98	3.93	3.64	ppb
Barium	135-1	198.56	199.95	200.89	199.80	0.59	ppb
Barium	137-1	203.19	201.28	208.03	204.17	1.70	ppb
Beryllium	9-1	1.40	1.35	1.44	1.40	3.27	ppb
Bismuth	209-1				109		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.41	0.35	0.49	0.42	16.72	ppb
Cadmium	106-1	-0.17	-0.50	-0.50	-0.39		ppb
Cadmium	111-1	0.06	0.05	0.04	0.05	24.45	ppb
Calcium	43-1	14127.15	15035.56	14685.02	14615.91	3.13	ppb
Calcium	44-1	13992.68	14888.77	14448.35	14443.27	3.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.37	19.85	19.24	19.49	1.64	ppb
Cobalt	59-2	13.15	13.34	13.19	13.23	0.75	ppb
Copper	63-2	260.51	261.74	262.63	261.62	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				107		%
Indium	115-1				115		%
Indium	115-2				106		%
Iron	56-2	12806.76	12848.88	12611.88	12755.84	0.99	ppb
Iron	57-2	12606.02	12946.07	12530.54	12694.21	1.74	ppb
Iron	54-2	12755.23	12745.80	12733.25	12744.76	0.09	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	14.47	15.57	15.18	15.07	3.68	ppb
Lead	207-1	13.74	14.29	14.18	14.07	2.06	ppb
Lead	208-1	13.99	14.80	14.61	14.47	2.92	ppb
Lithium	6-1				58		%
Magnesium	24-2	8993.75	9153.53	9072.75	9073.34	0.88	ppb
Manganese	55-2	590.37	596.86	600.69	595.97	0.88	ppb
Molybdenum	94-1	3.04	3.15	3.05	3.08	2.06	ppb
Molybdenum	95-1	0.05	0.06	0.05	0.05	2.06	ppb
Molybdenum	96-1	0.42	0.47	0.44	0.44	4.74	ppb
Molybdenum	97-1	0.05	0.05	0.06	0.05	1.69	ppb
Molybdenum	98-1	0.05	0.05	0.05	0.05	5.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.17	27.25	26.76	27.06	0.96	ppb
Phosphorus	31-2	943.42	944.04	905.85	931.10	2.35	ppb
Potassium	39-2	1725.96	1718.60	1682.59	1709.05	1.36	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				100		%
Scandium	45-2				110		%
Selenium	82-1	-0.18	-0.05	-0.21	-0.15		ppb
Selenium	77-2	15.03	14.71	13.64	14.46	5.03	ppb
Selenium	78-2	2.25	3.04	2.24	2.51	18.31	ppb
Silicon	28-1	3727.42	3877.87	3792.20	3799.16	1.99	ppb
Silver	107-1	0.15	0.14	0.14	0.14	2.27	ppb
Silver	109-1	0.13	0.13	0.14	0.13	3.56	ppb
Sodium	23-2	558.27	565.50	555.86	559.88	0.90	ppb
Strontium	86-1	51.83	53.88	53.31	53.01	2.00	ppb
Strontium	88-1	52.86	54.73	54.76	54.12	2.02	ppb
Sulfur	34-1	-1156.40	-1071.03	-1119.90	-1115.77		ppb
Terbium	159-1				117		%
Terbium	159-2				107		%
Thallium	203-1	0.16	0.17	0.17	0.17	5.28	ppb
Thallium	205-1	0.17	0.18	0.17	0.17	1.29	ppb
Tin	118-1	0.56	0.54	0.55	0.55	1.62	ppb
Titanium	47-1	65.31	69.34	66.31	66.98	3.13	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.39	1.49	1.46	1.45	3.26	ppb
Vanadium	51-2	27.83	27.89	27.74	27.82	0.26	ppb
Yttrium	89-1				119		%
Yttrium	89-2				115		%
Zinc	66-2	54.24	55.06	54.67	54.66	0.76	ppb
Zirconium	90-1	1.65	1.75	1.71	1.70	3.00	ppb
Zirconium	91-1	1.66	1.76	1.70	1.71	2.85	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9291.96	9299.34	9332.04	9307.78	0.23	ppb
Antimony	121-1	0.06	0.06	0.05	0.06	6.69	ppb
Arsenic	75-2	3.73	3.70	3.65	3.69	1.15	ppb
Barium	135-1	222.65	218.51	215.96	219.04	1.54	ppb
Barium	137-1	222.47	225.54	220.02	222.67	1.24	ppb
Beryllium	9-1	1.45	1.42	1.36	1.41	3.17	ppb
Bismuth	209-1				112		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.28	0.39	0.34	0.34	17.24	ppb
Cadmium	106-1	-0.16	-0.56	-0.74	-0.49		ppb
Cadmium	111-1	0.05	0.01	0.00	0.02	133.13	ppb
Calcium	43-1	14720.93	15148.47	15076.12	14981.84	1.53	ppb
Calcium	44-1	14667.53	15226.82	14535.96	14810.10	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.17	17.31	17.39	17.29	0.66	ppb
Cobalt	59-2	13.18	13.30	13.44	13.31	0.97	ppb
Copper	63-2	280.37	284.59	290.00	284.99	1.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				107		%
Iron	56-2	12358.53	12326.22	12394.25	12359.67	0.28	ppb
Iron	57-2	12308.83	12404.16	12449.01	12387.33	0.58	ppb
Iron	54-2	12386.61	12419.72	12378.05	12394.79	0.18	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.96	16.25	15.91	16.04	1.15	ppb
Lead	207-1	14.63	15.01	14.70	14.78	1.39	ppb
Lead	208-1	15.20	15.70	15.28	15.39	1.75	ppb
Lithium	6-1				58		%
Magnesium	24-2	9045.28	9173.63	9210.99	9143.30	0.95	ppb
Manganese	55-2	608.72	622.54	629.35	620.20	1.69	ppb
Molybdenum	94-1	3.27	3.25	3.14	3.22	2.17	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	6.75	ppb
Molybdenum	96-1	0.43	0.46	0.44	0.44	3.60	ppb
Molybdenum	97-1	0.04	0.04	0.05	0.04	10.43	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	4.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.41	26.38	26.42	26.40	0.08	ppb
Phosphorus	31-2	1008.40	1009.78	1007.60	1008.59	0.11	ppb
Potassium	39-2	1637.29	1631.07	1636.54	1634.97	0.21	ppb
Rhodium	103-1				111		%
Rhodium	103-2				111		%
Scandium	45-1				100		%
Scandium	45-2				110		%
Selenium	82-1	-0.60	-0.04	-0.65	-0.43		ppb
Selenium	77-2	16.00	14.44	14.01	14.82	7.05	ppb
Selenium	78-2	1.89	1.83	2.65	2.12	21.51	ppb
Silicon	28-1	3974.81	4003.04	3985.62	3987.82	0.36	ppb
Silver	107-1	0.27	0.26	0.25	0.26	3.41	ppb
Silver	109-1	0.26	0.26	0.26	0.26	0.41	ppb
Sodium	23-2	574.56	578.41	584.64	579.21	0.88	ppb
Strontium	86-1	52.54	54.03	52.47	53.02	1.66	ppb
Strontium	88-1	53.85	55.53	53.93	54.44	1.75	ppb
Sulfur	34-1	-1147.22	-1110.29	-1139.08	-1132.20		ppb
Terbium	159-1				116		%
Terbium	159-2				109		%
Thallium	203-1	0.15	0.16	0.15	0.15	4.32	ppb
Thallium	205-1	0.16	0.15	0.16	0.16	0.43	ppb
Tin	118-1	0.56	0.55	0.54	0.55	2.38	ppb
Titanium	47-1	52.78	53.64	53.05	53.16	0.83	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.64	1.70	1.64	1.66	1.95	ppb
Vanadium	51-2	25.11	25.31	25.31	25.24	0.45	ppb
Yttrium	89-1				119		%
Yttrium	89-2				115		%
Zinc	66-2	65.78	66.52	66.92	66.40	0.87	ppb
Zirconium	90-1	1.74	1.80	1.74	1.76	2.01	ppb
Zirconium	91-1	1.78	1.79	1.71	1.76	2.42	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9813.17	9683.56	9598.15	9698.29	1.12	ppb
Antimony	121-1	0.03	0.04	0.05	0.04	14.90	ppb
Arsenic	75-2	4.02	4.01	4.02	4.02	0.14	ppb
Barium	135-1	227.84	230.42	230.94	229.73	0.72	ppb
Barium	137-1	228.86	232.06	231.11	230.68	0.71	ppb
Beryllium	9-1	1.42	1.62	1.55	1.53	6.51	ppb
Bismuth	209-1				113		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.23	0.41	0.41	0.35	29.78	ppb
Cadmium	106-1	-0.44	-0.85	-0.90	-0.73		ppb
Cadmium	111-1	0.03	-0.02	0.00	0.00	495.61	ppb
Calcium	43-1	16142.63	16387.60	16368.88	16299.70	0.84	ppb
Calcium	44-1	15892.85	16525.54	16046.53	16154.97	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.17	19.81	19.72	19.90	1.21	ppb
Cobalt	59-2	15.17	15.09	14.90	15.05	0.92	ppb
Copper	63-2	386.36	381.34	378.87	382.19	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				109		%
Indium	115-1				115		%
Indium	115-2				106		%
Iron	56-2	14080.68	13747.24	13834.51	13887.48	1.25	ppb
Iron	57-2	14209.43	13948.66	13681.01	13946.37	1.89	ppb
Iron	54-2	14074.72	13819.36	13718.75	13870.94	1.32	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	16.57	16.81	16.58	16.66	0.80	ppb
Lead	207-1	15.40	15.73	15.19	15.44	1.74	ppb
Lead	208-1	15.89	16.26	15.99	16.04	1.20	ppb
Lithium	6-1				58		%
Magnesium	24-2	10237.28	10100.17	10094.74	10144.06	0.80	ppb
Manganese	55-2	717.50	699.17	702.10	706.26	1.39	ppb
Molybdenum	94-1	3.77	3.88	3.83	3.83	1.43	ppb
Molybdenum	95-1	0.05	0.06	0.06	0.06	5.86	ppb
Molybdenum	96-1	0.52	0.50	0.52	0.51	2.01	ppb
Molybdenum	97-1	0.05	0.05	0.05	0.05	6.18	ppb
Molybdenum	98-1	0.04	0.05	0.04	0.05	10.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	30.40	30.01	30.06	30.15	0.70	ppb
Phosphorus	31-2	1120.36	1082.23	1069.67	1090.75	2.42	ppb
Potassium	39-2	1760.50	1738.37	1722.01	1740.29	1.11	ppb
Rhodium	103-1				110		%
Rhodium	103-2				110		%
Scandium	45-1				99		%
Scandium	45-2				108		%
Selenium	82-1	-0.17	0.04	-0.26	-0.13		ppb
Selenium	77-2	15.74	15.27	14.80	15.27	3.07	ppb
Selenium	78-2	3.52	2.50	2.79	2.94	17.74	ppb
Silicon	28-1	4032.65	3953.88	3908.92	3965.15	1.58	ppb
Silver	107-1	0.20	0.20	0.20	0.20	1.31	ppb
Silver	109-1	0.20	0.20	0.20	0.20	0.90	ppb
Sodium	23-2	702.83	667.77	683.14	684.58	2.57	ppb
Strontium	86-1	55.12	55.64	56.47	55.74	1.22	ppb
Strontium	88-1	55.54	57.24	57.34	56.70	1.78	ppb
Sulfur	34-1	-1140.60	-1105.95	-1073.44	-1106.67		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	0.16	0.16	0.16	0.16	1.90	ppb
Thallium	205-1	0.16	0.17	0.17	0.17	2.27	ppb
Tin	118-1	0.49	0.52	0.49	0.50	3.81	ppb
Titanium	47-1	61.98	63.24	62.12	62.44	1.10	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.77	1.81	1.78	1.79	1.33	ppb
Vanadium	51-2	28.74	28.12	27.68	28.18	1.87	ppb
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	63.47	62.45	61.36	62.42	1.69	ppb
Zirconium	90-1	2.11	2.12	2.12	2.12	0.19	ppb
Zirconium	91-1	2.10	2.16	2.14	2.13	1.44	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7108.86	7173.27	7035.87	7106.00	0.97	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	13.75	ppb
Arsenic	75-2	3.33	3.20	3.45	3.33	3.80	ppb
Barium	135-1	190.60	193.76	188.26	190.88	1.45	ppb
Barium	137-1	196.46	199.74	195.93	197.37	1.04	ppb
Beryllium	9-1	1.03	1.24	1.20	1.16	9.63	ppb
Bismuth	209-1				114		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.30	0.26	0.21	0.26	18.39	ppb
Cadmium	106-1	-0.14	-1.03	-1.53	-0.90		ppb
Cadmium	111-1	0.04	-0.02	-0.07	-0.02		ppb
Calcium	43-1	14886.97	15244.74	14904.39	15012.03	1.34	ppb
Calcium	44-1	14816.75	15056.42	14952.12	14941.76	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.41	14.45	14.18	14.35	1.00	ppb
Cobalt	59-2	10.89	10.79	10.86	10.85	0.48	ppb
Copper	63-2	186.97	189.35	187.78	188.03	0.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				106		%
Iron	56-2	10072.02	10128.15	9974.13	10058.10	0.77	ppb
Iron	57-2	10055.36	10012.28	10060.72	10042.79	0.26	ppb
Iron	54-2	10119.46	10083.82	10033.66	10078.98	0.43	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	12.92	13.44	13.13	13.16	1.96	ppb
Lead	207-1	12.11	12.44	12.19	12.25	1.38	ppb
Lead	208-1	12.50	12.85	12.60	12.65	1.42	ppb
Lithium	6-1				60		%
Magnesium	24-2	7668.38	7766.77	7597.64	7677.60	1.11	ppb
Manganese	55-2	577.98	568.58	563.85	570.14	1.26	ppb
Molybdenum	94-1	2.95	2.99	2.87	2.94	1.99	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	4.18	ppb
Molybdenum	96-1	0.38	0.39	0.38	0.38	1.48	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	11.02	ppb
Molybdenum	98-1	0.03	0.04	0.03	0.03	4.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.25	21.33	21.53	21.37	0.67	ppb
Phosphorus	31-2	952.96	958.65	962.02	957.88	0.48	ppb
Potassium	39-2	1388.84	1394.41	1387.85	1390.36	0.25	ppb
Rhodium	103-1				111		%
Rhodium	103-2				110		%
Scandium	45-1				98		%
Scandium	45-2				107		%
Selenium	82-1	-0.32	-0.45	-0.56	-0.44		ppb
Selenium	77-2	11.50	13.44	13.35	12.76	8.61	ppb
Selenium	78-2	2.53	1.99	2.27	2.26	12.04	ppb
Silicon	28-1	3606.68	3684.14	3553.84	3614.89	1.81	ppb
Silver	107-1	0.11	0.11	0.11	0.11	0.93	ppb
Silver	109-1	0.11	0.11	0.11	0.11	2.15	ppb
Sodium	23-2	663.03	670.57	666.89	666.83	0.57	ppb
Strontium	86-1	47.33	48.45	47.52	47.77	1.26	ppb
Strontium	88-1	48.69	49.79	48.77	49.08	1.24	ppb
Sulfur	34-1	-1141.03	-1106.47	-1143.67	-1130.39		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	0.12	0.12	0.12	0.12	2.54	ppb
Thallium	205-1	0.12	0.12	0.12	0.12	0.81	ppb
Tin	118-1	0.34	0.34	0.33	0.33	2.23	ppb
Titanium	47-1	44.01	45.49	44.53	44.68	1.68	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.41	1.43	1.40	1.41	1.04	ppb
Vanadium	51-2	21.69	21.63	21.62	21.64	0.18	ppb
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	42.47	42.32	41.42	42.07	1.35	ppb
Zirconium	90-1	1.59	1.63	1.58	1.60	1.80	ppb
Zirconium	91-1	1.68	1.64	1.60	1.64	2.41	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11106.36	11046.60	10829.19	10994.05	1.33	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	3.09	ppb
Arsenic	75-2	4.10	4.00	3.91	4.00	2.32	ppb
Barium	135-1	248.74	263.08	257.24	256.35	2.81	ppb
Barium	137-1	249.68	264.46	259.59	257.91	2.92	ppb
Beryllium	9-1	1.40	1.60	1.47	1.49	6.67	ppb
Bismuth	209-1				116		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.30	0.35	0.42	0.35	17.14	ppb
Cadmium	106-1	-0.61	-0.60	-1.62	-0.94		ppb
Cadmium	111-1	0.01	0.01	-0.08	-0.02		ppb
Calcium	43-1	15612.22	17207.35	16741.78	16520.45	4.97	ppb
Calcium	44-1	15705.12	16679.44	16468.00	16284.19	3.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.23	21.43	20.93	21.20	1.18	ppb
Cobalt	59-2	16.30	16.69	16.19	16.40	1.58	ppb
Copper	63-2	280.62	280.57	276.28	279.16	0.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				120		%
Holmium	165-2				107		%
Indium	115-1				116		%
Indium	115-2				103		%
Iron	56-2	15253.63	15345.12	15183.41	15260.72	0.53	ppb
Iron	57-2	15216.92	15313.71	15067.90	15199.51	0.81	ppb
Iron	54-2	15261.56	15393.64	14997.24	15217.48	1.33	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.63	16.63	16.92	16.39	4.13	ppb
Lead	207-1	14.69	15.53	15.52	15.25	3.18	ppb
Lead	208-1	15.18	16.07	16.17	15.81	3.46	ppb
Lithium	6-1				60		%
Magnesium	24-2	11182.61	11190.75	10937.20	11103.52	1.30	ppb
Manganese	55-2	709.23	714.34	704.08	709.21	0.72	ppb
Molybdenum	94-1	3.47	3.65	3.61	3.58	2.61	ppb
Molybdenum	95-1	0.05	0.06	0.05	0.05	6.05	ppb
Molybdenum	96-1	0.47	0.51	0.50	0.49	3.79	ppb
Molybdenum	97-1	0.04	0.06	0.05	0.05	16.53	ppb
Molybdenum	98-1	0.04	0.05	0.04	0.04	4.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	32.61	32.75	32.56	32.64	0.30	ppb
Phosphorus	31-2	1240.73	1216.44	1204.64	1220.60	1.51	ppb
Potassium	39-2	1911.28	1949.15	1995.08	1951.84	2.15	ppb
Rhodium	103-1				113		%
Rhodium	103-2				107		%
Scandium	45-1				99		%
Scandium	45-2				105		%
Selenium	82-1	-0.08	-0.43	-0.19	-0.23		ppb
Selenium	77-2	17.19	16.65	19.17	17.67	7.53	ppb
Selenium	78-2	3.57	2.43	2.06	2.69	29.27	ppb
Silicon	28-1	5065.63	5530.84	5254.81	5283.76	4.43	ppb
Silver	107-1	0.24	0.26	0.25	0.25	4.15	ppb
Silver	109-1	0.24	0.24	0.26	0.25	5.41	ppb
Sodium	23-2	731.17	728.82	722.93	727.64	0.58	ppb
Strontium	86-1	54.94	58.64	58.65	57.41	3.73	ppb
Strontium	88-1	56.48	60.72	59.41	58.87	3.69	ppb
Sulfur	34-1	-1318.84	-1123.29	-1212.87	-1218.33		ppb
Terbium	159-1				121		%
Terbium	159-2				107		%
Thallium	203-1	0.15	0.16	0.16	0.15	3.53	ppb
Thallium	205-1	0.14	0.15	0.15	0.15	4.43	ppb
Tin	118-1	0.60	0.66	0.62	0.63	5.38	ppb
Titanium	47-1	58.54	66.76	64.86	63.39	6.79	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.74	1.85	1.88	1.82	4.13	ppb
Vanadium	51-2	30.04	29.90	29.27	29.74	1.38	ppb
Yttrium	89-1				120		%
Yttrium	89-2				111		%
Zinc	66-2	88.66	89.61	89.23	89.17	0.54	ppb
Zirconium	90-1	1.88	2.02	1.99	1.96	3.57	ppb
Zirconium	91-1	1.90	2.04	2.00	1.98	3.63	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9351.37	9366.24	9444.97	9387.53	0.54	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.97	ppb
Arsenic	75-2	3.86	3.79	3.78	3.81	1.09	ppb
Barium	135-1	217.53	225.80	224.11	222.48	1.96	ppb
Barium	137-1	222.75	228.26	228.36	226.45	1.42	ppb
Beryllium	9-1	1.29	1.41	1.24	1.32	6.64	ppb
Bismuth	209-1				114		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.35	0.28	0.28	0.30	13.22	ppb
Cadmium	106-1	-1.28	-0.97	-1.50	-1.25		ppb
Cadmium	111-1	-0.05	-0.01	-0.06	-0.04		ppb
Calcium	43-1	16538.54	16854.15	16459.57	16617.42	1.26	ppb
Calcium	44-1	16495.29	16613.99	16374.95	16494.74	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.11	17.35	17.60	17.35	1.42	ppb
Cobalt	59-2	14.28	14.34	14.41	14.34	0.46	ppb
Copper	63-2	298.78	299.42	305.88	301.36	1.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				105		%
Iron	56-2	13091.04	13471.21	13624.89	13395.72	2.05	ppb
Iron	57-2	13226.10	13410.87	13530.13	13389.03	1.14	ppb
Iron	54-2	13156.39	13322.42	13765.15	13414.65	2.35	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.61	15.94	15.95	15.83	1.22	ppb
Lead	207-1	14.51	14.68	14.79	14.66	0.98	ppb
Lead	208-1	15.05	15.19	15.28	15.18	0.77	ppb
Lithium	6-1				60		%
Magnesium	24-2	9706.06	9777.81	9862.40	9782.09	0.80	ppb
Manganese	55-2	703.25	717.12	736.32	718.90	2.31	ppb
Molybdenum	94-1	3.39	3.46	3.37	3.41	1.35	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	3.54	ppb
Molybdenum	96-1	0.44	0.50	0.49	0.47	6.64	ppb
Molybdenum	97-1	0.05	0.05	0.04	0.04	9.89	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	4.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.79	28.65	28.94	28.79	0.50	ppb
Phosphorus	31-2	990.04	1039.22	1014.37	1014.55	2.42	ppb
Potassium	39-2	1577.84	1587.53	1667.45	1610.94	3.05	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				96		%
Scandium	45-2				106		%
Selenium	82-1	-0.23	-0.21	-0.56	-0.34		ppb
Selenium	77-2	15.44	14.51	15.57	15.17	3.81	ppb
Selenium	78-2	3.15	2.90	3.06	3.04	4.24	ppb
Silicon	28-1	4009.54	4091.62	3855.02	3985.39	3.01	ppb
Silver	107-1	0.19	0.18	0.19	0.19	2.60	ppb
Silver	109-1	0.18	0.19	0.18	0.18	2.23	ppb
Sodium	23-2	677.45	664.42	663.52	668.46	1.17	ppb
Strontium	86-1	51.32	53.10	51.39	51.93	1.94	ppb
Strontium	88-1	52.52	54.22	52.64	53.12	1.78	ppb
Sulfur	34-1	-1233.76	-1150.03	-1237.85	-1207.21		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	0.12	0.13	0.13	0.13	4.90	ppb
Thallium	205-1	0.12	0.13	0.12	0.13	3.13	ppb
Tin	118-1	0.42	0.43	0.44	0.43	2.64	ppb
Titanium	47-1	56.72	57.39	55.27	56.46	1.92	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.57	1.56	1.56	1.56	0.31	ppb
Vanadium	51-2	24.99	25.36	25.62	25.32	1.25	ppb
Yttrium	89-1				116		%
Yttrium	89-2				112		%
Zinc	66-2	56.26	56.51	57.61	56.79	1.27	ppb
Zirconium	90-1	1.84	1.93	1.86	1.88	2.58	ppb
Zirconium	91-1	1.89	1.92	1.90	1.90	0.77	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8225.96	8034.32	8226.48	8162.25	1.36	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.28	ppb
Arsenic	75-2	3.32	3.01	3.07	3.13	5.22	ppb
Barium	135-1	194.03	197.90	196.60	196.17	1.00	ppb
Barium	137-1	196.76	203.87	202.77	201.14	1.90	ppb
Beryllium	9-1	1.30	1.27	1.19	1.25	4.49	ppb
Bismuth	209-1				118		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.24	0.26	0.26	0.25	4.91	ppb
Cadmium	106-1	-0.73	-1.12	-1.71	-1.19		ppb
Cadmium	111-1	-0.02	-0.04	-0.10	-0.05		ppb
Calcium	43-1	12250.86	12450.38	12287.86	12329.70	0.86	ppb
Calcium	44-1	12063.15	12118.76	12006.42	12062.77	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	15.91	15.89	16.21	16.00	1.09	ppb
Cobalt	59-2	12.55	12.53	12.76	12.61	1.00	ppb
Copper	63-2	710.23	713.70	718.03	713.99	0.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				110		%
Indium	115-1				115		%
Indium	115-2				105		%
Iron	56-2	12069.74	12239.92	12266.01	12191.89	0.87	ppb
Iron	57-2	12037.12	12160.47	12099.29	12098.96	0.51	ppb
Iron	54-2	12133.77	12211.14	12368.52	12237.81	0.98	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.08	13.19	13.31	13.19	0.86	ppb
Lead	207-1	12.12	12.40	12.54	12.36	1.74	ppb
Lead	208-1	12.55	12.73	12.79	12.69	0.98	ppb
Lithium	6-1				59		%
Magnesium	24-2	8718.84	8724.04	8863.78	8768.89	0.94	ppb
Manganese	55-2	496.35	498.39	495.13	496.62	0.33	ppb
Molybdenum	94-1	3.32	3.34	3.29	3.32	0.67	ppb
Molybdenum	95-1	0.04	0.04	0.03	0.04	7.45	ppb
Molybdenum	96-1	0.44	0.46	0.43	0.45	3.74	ppb
Molybdenum	97-1	0.03	0.05	0.04	0.04	24.01	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	3.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.59	24.57	25.23	24.79	1.51	ppb
Phosphorus	31-2	845.83	853.30	876.28	858.47	1.85	ppb
Potassium	39-2	1500.97	1503.19	1475.61	1493.26	1.03	ppb
Rhodium	103-1				112		%
Rhodium	103-2				110		%
Scandium	45-1				96		%
Scandium	45-2				104		%
Selenium	82-1	-0.16	-0.14	-0.02	-0.11		ppb
Selenium	77-2	11.66	12.79	12.88	12.44	5.44	ppb
Selenium	78-2	2.14	1.53	2.75	2.14	28.56	ppb
Silicon	28-1	3328.64	3303.73	3293.79	3308.72	0.54	ppb
Silver	107-1	0.29	0.29	0.29	0.29	0.30	ppb
Silver	109-1	0.28	0.29	0.29	0.29	2.82	ppb
Sodium	23-2	513.57	520.88	524.40	519.61	1.06	ppb
Strontium	86-1	51.92	53.32	52.73	52.66	1.34	ppb
Strontium	88-1	54.09	54.72	54.05	54.29	0.69	ppb
Sulfur	34-1	-1230.37	-1178.66	-1232.46	-1213.83		ppb
Terbium	159-1				119		%
Terbium	159-2				110		%
Thallium	203-1	0.11	0.11	0.12	0.12	3.02	ppb
Thallium	205-1	0.11	0.12	0.12	0.12	4.65	ppb
Tin	118-1	0.35	0.37	0.35	0.35	3.32	ppb
Titanium	47-1	56.29	57.89	57.27	57.15	1.41	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.35	1.36	1.38	1.37	1.25	ppb
Vanadium	51-2	23.43	23.53	23.80	23.59	0.81	ppb
Yttrium	89-1				117		%
Yttrium	89-2				112		%
Zinc	66-2	49.64	49.69	50.32	49.88	0.76	ppb
Zirconium	90-1	1.82	1.86	1.83	1.84	1.25	ppb
Zirconium	91-1	1.90	1.87	1.88	1.88	0.68	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8579.06	8629.46	8569.69	8592.74	0.37	ppb
Antimony	121-1	0.02	0.03	0.03	0.03	10.10	ppb
Arsenic	75-2	3.61	3.62	3.31	3.52	5.07	ppb
Barium	135-1	188.59	203.68	202.67	198.31	4.25	ppb
Barium	137-1	190.72	209.11	205.87	201.90	4.86	ppb
Beryllium	9-1	1.21	1.42	1.45	1.36	9.40	ppb
Bismuth	209-1				119		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.27	0.43	0.38	0.36	22.60	ppb
Cadmium	106-1	-1.31	-1.81	-1.48	-1.54		ppb
Cadmium	111-1	-0.06	-0.10	-0.08	-0.08		ppb
Calcium	43-1	13026.65	14102.98	14128.26	13752.63	4.57	ppb
Calcium	44-1	12860.30	14044.73	13905.58	13603.54	4.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.38	17.29	16.94	17.20	1.36	ppb
Cobalt	59-2	13.45	13.45	13.13	13.34	1.38	ppb
Copper	63-2	602.48	602.76	591.91	599.05	1.03	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				120		%
Holmium	165-2				111		%
Indium	115-1				116		%
Indium	115-2				107		%
Iron	56-2	12906.43	13063.03	12745.15	12904.87	1.23	ppb
Iron	57-2	12749.16	12823.31	12789.51	12787.33	0.29	ppb
Iron	54-2	12827.75	12878.33	12740.58	12815.55	0.54	ppb
Krypton	83-1						cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.21	14.38	14.30	13.96	4.69	ppb
Lead	207-1	12.36	13.27	13.34	12.99	4.20	ppb
Lead	208-1	12.83	13.82	13.76	13.47	4.11	ppb
Lithium	6-1				59		%
Magnesium	24-2	9255.07	9216.92	9003.85	9158.62	1.48	ppb
Manganese	55-2	555.23	566.68	547.16	556.36	1.76	ppb
Molybdenum	94-1	3.53	3.79	3.78	3.70	3.98	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	2.62	ppb
Molybdenum	96-1	0.47	0.52	0.51	0.50	4.53	ppb
Molybdenum	97-1	0.03	0.04	0.05	0.04	24.41	ppb
Molybdenum	98-1	0.05	0.03	0.03	0.04	18.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.34	26.55	26.01	26.30	1.02	ppb
Phosphorus	31-2	900.97	907.55	888.92	899.14	1.05	ppb
Potassium	39-2	1572.24	1549.33	1530.21	1550.60	1.36	ppb
Rhodium	103-1				112		%
Rhodium	103-2				111		%
Scandium	45-1				97		%
Scandium	45-2				105		%
Selenium	82-1	-0.03	0.03	-0.12	-0.04		ppb
Selenium	77-2	14.30	12.53	12.56	13.13	7.70	ppb
Selenium	78-2	1.85	2.45	3.18	2.50	26.67	ppb
Silicon	28-1	3270.23	3596.79	3449.72	3438.91	4.76	ppb
Silver	107-1	0.28	0.32	0.30	0.30	6.02	ppb
Silver	109-1	0.29	0.31	0.30	0.30	3.19	ppb
Sodium	23-2	543.21	548.20	535.53	542.31	1.18	ppb
Strontium	86-1	50.70	55.09	54.57	53.46	4.48	ppb
Strontium	88-1	50.94	56.00	56.07	54.34	5.41	ppb
Sulfur	34-1	-1334.30	-1140.22	-1125.41	-1199.98		ppb
Terbium	159-1				122		%
Terbium	159-2				111		%
Thallium	203-1	0.12	0.13	0.12	0.12	4.09	ppb
Thallium	205-1	0.11	0.12	0.12	0.12	3.69	ppb
Tin	118-1	0.42	0.46	0.46	0.45	4.96	ppb
Titanium	47-1	54.31	60.48	59.52	58.10	5.71	ppb

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.45	1.59	1.57	1.54	5.19	ppb
Vanadium	51-2	25.28	25.35	24.94	25.19	0.86	ppb
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	57.54	57.06	55.81	56.80	1.57	ppb
Zirconium	90-1	1.94	2.09	2.10	2.04	4.54	ppb
Zirconium	91-1	1.94	2.13	2.10	2.06	5.02	ppb

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1748.44	1758.25	1706.54	1737.75	1.58	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	3.99	ppb
Arsenic	75-2	0.68	0.67	0.59	0.65	7.19	ppb
Barium	135-1	41.68	42.29	41.69	41.89	0.83	ppb
Barium	137-1	42.36	43.09	41.95	42.47	1.36	ppb
Beryllium	9-1	0.27	0.29	0.28	0.28	2.72	ppb
Bismuth	209-1				117		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.06	0.08	0.05	0.07	23.51	ppb
Cadmium	106-1	-1.37	-1.28	-1.84	-1.49		ppb
Cadmium	111-1	-0.09	-0.08	-0.12	-0.10		ppb
Calcium	43-1	2571.19	2679.50	2617.82	2622.84	2.07	ppb
Calcium	44-1	2607.43	2587.24	2525.00	2573.22	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.33	3.37	3.30	3.34	1.00	ppb
Cobalt	59-2	2.73	2.76	2.64	2.71	2.34	ppb
Copper	63-2	155.54	155.70	151.05	154.10	1.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				110		%
Indium	115-1				116		%
Indium	115-2				108		%
Iron	56-2	2639.57	2634.94	2564.70	2613.07	1.61	ppb
Iron	57-2	2678.00	2680.63	2613.45	2657.36	1.43	ppb
Iron	54-2	2717.38	2660.94	2573.38	2650.57	2.74	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2.89	2.85	2.84	2.86	0.88	ppb
Lead	207-1	2.66	2.69	2.63	2.66	1.11	ppb
Lead	208-1	2.77	2.76	2.72	2.75	0.98	ppb
Lithium	6-1				66		%
Magnesium	24-2	1934.66	1937.68	1890.77	1921.04	1.37	ppb
Manganese	55-2	105.84	105.40	101.83	104.36	2.11	ppb
Molybdenum	94-1	0.71	0.71	0.73	0.72	1.64	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	9.20	ppb
Molybdenum	96-1	0.10	0.09	0.10	0.10	1.41	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.01	40.51	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	2.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.53	5.41	5.21	5.38	3.01	ppb
Phosphorus	31-2	167.90	173.80	161.48	167.73	3.67	ppb
Potassium	39-2	347.02	345.99	332.88	341.96	2.31	ppb
Rhodium	103-1				114		%
Rhodium	103-2				111		%
Scandium	45-1				100		%
Scandium	45-2				104		%
Selenium	82-1	-0.80	-0.58	-0.47	-0.62		ppb
Selenium	77-2	3.09	2.82	3.18	3.03	6.09	ppb
Selenium	78-2	0.59	1.20	0.69	0.83	39.38	ppb
Silicon	28-1	706.70	724.34	711.25	714.10	1.28	ppb
Silver	107-1	0.06	0.07	0.07	0.06	5.21	ppb
Silver	109-1	0.06	0.06	0.06	0.06	1.18	ppb
Sodium	23-2	141.12	140.15	136.39	139.22	1.80	ppb
Strontium	86-1	11.35	11.48	11.48	11.44	0.64	ppb
Strontium	88-1	11.53	11.56	11.50	11.53	0.26	ppb
Sulfur	34-1	-1342.66	-1312.69	-1347.58	-1334.31		ppb
Terbium	159-1				118		%
Terbium	159-2				110		%
Thallium	203-1	0.04	0.03	0.03	0.03	5.77	ppb
Thallium	205-1	0.04	0.04	0.03	0.04	2.36	ppb
Tin	118-1	0.13	0.09	0.10	0.11	21.23	ppb
Titanium	47-1	11.76	12.39	12.14	12.09	2.64	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.29	0.29	0.28	0.29	1.92	ppb
Vanadium	51-2	5.24	5.08	4.95	5.09	2.81	ppb
Yttrium	89-1				115		%
Yttrium	89-2				111		%
Zinc	66-2	11.61	11.10	11.16	11.29	2.45	ppb
Zirconium	90-1	0.39	0.39	0.39	0.39	0.43	ppb
Zirconium	91-1	0.40	0.41	0.39	0.40	2.22	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8460.86	8687.25	8652.60	8600.24	1.42	ppb
Antimony	121-1	20.19	20.65	20.43	20.42	1.11	ppb
Arsenic	75-2	10.72	11.07	10.86	10.88	1.63	ppb
Barium	135-1	599.66	604.57	600.70	601.64	0.43	ppb
Barium	137-1	605.86	607.97	602.34	605.39	0.47	ppb
Beryllium	9-1	11.72	12.18	12.02	11.98	1.95	ppb
Bismuth	209-1				120		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.34	9.65	9.50	9.50	1.63	ppb
Cadmium	106-1	8.16	7.02	7.25	7.48	8.08	ppb
Cadmium	111-1	10.33	10.31	10.29	10.31	0.20	ppb
Calcium	43-1	12275.76	12660.08	12674.16	12536.67	1.80	ppb
Calcium	44-1	12172.95	12554.47	12433.80	12387.07	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	57.68	58.62	57.85	58.05	0.86	ppb
Cobalt	59-2	122.35	123.86	122.48	122.90	0.68	ppb
Copper	63-2	740.78	743.08	746.64	743.50	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				121		%
Holmium	165-2				112		%
Indium	115-1				116		%
Indium	115-2				106		%
Iron	56-2	12481.47	12967.21	12813.27	12753.98	1.95	ppb
Iron	57-2	12517.73	12814.50	12524.49	12618.91	1.34	ppb
Iron	54-2	12715.88	12938.02	12572.00	12741.97	1.45	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	17.34	17.86	17.50	17.57	1.51	ppb
Lead	207-1	16.14	16.60	16.41	16.38	1.42	ppb
Lead	208-1	16.77	17.24	16.87	16.96	1.46	ppb
Lithium	6-1				62		%
Magnesium	24-2	8811.55	9049.53	9023.33	8961.47	1.46	ppb
Manganese	55-2	602.06	617.23	619.13	612.81	1.53	ppb
Molybdenum	94-1	3.28	3.32	3.36	3.32	1.14	ppb
Molybdenum	95-1	0.04	0.05	0.04	0.04	4.25	ppb
Molybdenum	96-1	0.44	0.46	0.44	0.45	2.03	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	4.66	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	3.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	133.51	134.87	134.21	134.20	0.51	ppb
Phosphorus	31-2	850.46	863.86	853.66	855.99	0.82	ppb
Potassium	39-2	1491.34	1548.32	1512.58	1517.41	1.90	ppb
Rhodium	103-1				112		%
Rhodium	103-2				110		%
Scandium	45-1				99		%
Scandium	45-2				105		%
Selenium	82-1	19.72	21.58	21.19	20.83	4.71	ppb
Selenium	77-2	31.27	32.48	32.18	31.98	1.97	ppb
Selenium	78-2	23.12	23.23	22.59	22.98	1.48	ppb
Silicon	28-1	3448.65	3524.06	3512.98	3495.23	1.16	ppb
Silver	107-1	10.33	10.45	10.39	10.39	0.62	ppb
Silver	109-1	10.44	10.50	10.41	10.45	0.42	ppb
Sodium	23-2	512.83	522.57	517.45	517.62	0.94	ppb
Strontium	86-1	51.55	52.80	52.69	52.35	1.33	ppb
Strontium	88-1	53.54	55.15	53.81	54.16	1.60	ppb
Sulfur	34-1	-1316.55	-1255.70	-1242.73	-1271.66		ppb
Terbium	159-1				122		%
Terbium	159-2				111		%
Thallium	203-1	10.01	10.40	10.10	10.17	1.99	ppb
Thallium	205-1	9.97	10.33	10.16	10.15	1.78	ppb
Tin	118-1	0.39	0.40	0.37	0.39	3.36	ppb
Titanium	47-1	56.25	58.64	57.82	57.57	2.11	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.36	1.44	1.38	1.39	3.06	ppb
Vanadium	51-2	126.46	129.22	126.58	127.42	1.23	ppb
Yttrium	89-1				119		%
Yttrium	89-2				113		%
Zinc	66-2	158.13	161.27	159.19	159.53	1.00	ppb
Zirconium	90-1	1.83	1.83	1.83	1.83	0.01	ppb
Zirconium	91-1	1.82	1.86	1.83	1.84	1.18	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9728.72	9627.95	9991.29	9782.65	1.92	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	1.22	ppb
Arsenic	75-2	3.74	3.63	3.53	3.63	2.83	ppb
Barium	135-1	194.16	197.73	194.41	195.43	1.02	ppb
Barium	137-1	195.20	203.37	198.11	198.89	2.08	ppb
Beryllium	9-1	1.35	1.36	1.30	1.34	2.25	ppb
Bismuth	209-1				120		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.44	0.32	0.47	0.41	19.86	ppb
Cadmium	106-1	-0.57	-1.07	-1.32	-0.99		ppb
Cadmium	111-1	0.00	-0.02	-0.06	-0.02		ppb
Calcium	43-1	22357.20	23310.30	22888.48	22851.99	2.09	ppb
Calcium	44-1	22824.79	23616.70	23018.60	23153.36	1.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.03	21.31	21.71	21.35	1.59	ppb
Cobalt	59-2	15.64	15.70	15.98	15.77	1.16	ppb
Copper	63-2	234.67	233.83	238.30	235.60	1.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				122		%
Holmium	165-2				111		%
Indium	115-1				116		%
Indium	115-2				105		%
Iron	56-2	15080.39	15362.01	15568.51	15336.97	1.60	ppb
Iron	57-2	14996.07	15308.81	15444.37	15249.75	1.51	ppb
Iron	54-2	15163.94	15519.00	15569.59	15417.51	1.43	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	14.92	15.21	15.29	15.14	1.28	ppb
Lead	207-1	13.95	14.30	14.18	14.14	1.26	ppb
Lead	208-1	14.42	14.71	14.63	14.59	1.02	ppb
Lithium	6-1				62		%
Magnesium	24-2	10392.89	10369.99	10413.24	10392.04	0.21	ppb
Manganese	55-2	1102.18	1118.75	1137.37	1119.43	1.57	ppb
Molybdenum	94-1	4.36	4.49	4.45	4.43	1.60	ppb
Molybdenum	95-1	0.07	0.06	0.08	0.07	10.73	ppb
Molybdenum	96-1	0.58	0.62	0.62	0.61	4.29	ppb
Molybdenum	97-1	0.06	0.05	0.06	0.06	7.45	ppb
Molybdenum	98-1	0.06	0.05	0.06	0.06	5.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	31.35	31.72	32.13	31.73	1.23	ppb
Phosphorus	31-2	935.90	955.89	973.87	955.22	1.99	ppb
Potassium	39-2	1625.01	1619.62	1658.73	1634.46	1.30	ppb
Rhodium	103-1				112		%
Rhodium	103-2				110		%
Scandium	45-1				99		%
Scandium	45-2				104		%
Selenium	82-1	-0.04	-0.23	-0.14	-0.13		ppb
Selenium	77-2	14.22	11.82	11.67	12.57	11.39	ppb
Selenium	78-2	2.55	2.64	2.78	2.65	4.45	ppb
Silicon	28-1	3196.72	3291.00	3263.23	3250.32	1.49	ppb
Silver	107-1	0.16	0.15	0.14	0.15	6.66	ppb
Silver	109-1	0.15	0.14	0.14	0.14	4.60	ppb
Sodium	23-2	555.21	571.33	574.67	567.07	1.84	ppb
Strontium	86-1	48.53	49.05	49.76	49.11	1.26	ppb
Strontium	88-1	50.11	50.78	50.17	50.35	0.74	ppb
Sulfur	34-1	-1148.76	-1010.52	-1033.77	-1064.35		ppb
Terbium	159-1				122		%
Terbium	159-2				111		%
Thallium	203-1	0.14	0.14	0.14	0.14	1.48	ppb
Thallium	205-1	0.14	0.14	0.14	0.14	0.90	ppb
Tin	118-1	0.46	0.48	0.48	0.47	2.11	ppb
Titanium	47-1	78.22	79.35	79.36	78.98	0.83	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.44	1.49	1.45	1.46	1.70	ppb
Vanadium	51-2	29.62	30.00	30.34	29.99	1.20	ppb
Yttrium	89-1				119		%
Yttrium	89-2				112		%
Zinc	66-2	70.55	73.04	73.80	72.46	2.35	ppb
Zirconium	90-1	2.43	2.49	2.48	2.47	1.45	ppb
Zirconium	91-1	2.50	2.50	2.47	2.49	0.73	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	27765.85	26999.21	26838.37	27201.14	1.82	ppb
Antimony	121-1	1.60	1.64	1.62	1.62	1.15	ppb
Arsenic	75-2	76.81	77.52	78.00	77.44	0.78	ppb
Barium	135-1	356.21	357.28	349.59	354.36	1.18	ppb
Barium	137-1	352.45	357.85	350.38	353.56	1.09	ppb
Beryllium	9-1	1.19	1.32	1.23	1.25	5.48	ppb
Bismuth	209-1				118		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.48	1.42	1.25	1.38	8.52	ppb
Cadmium	106-1	0.29	0.24	-0.33	0.07	514.97	ppb
Cadmium	111-1	0.86	0.85	0.80	0.83	3.73	ppb
Calcium	43-1	6644.88	6669.48	6782.85	6699.07	1.10	ppb
Calcium	44-1	6501.30	6567.63	6536.44	6535.12	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	75.36	73.86	73.36	74.19	1.41	ppb
Cobalt	59-2	40.47	39.54	39.02	39.67	1.85	ppb
Copper	63-2	137.47	134.56	130.76	134.26	2.51	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				120		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				104		%
Iron	56-2	79299.38	77111.48	76100.78	77503.88	2.11	ppb
Iron	57-2	79257.81	75900.41	75514.06	76890.76	2.68	ppb
Iron	54-2	79235.51	77398.49	77105.81	77913.27	1.48	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	60.81	60.67	61.23	60.90	0.48	ppb
Lead	207-1	58.13	58.12	58.27	58.17	0.15	ppb
Lead	208-1	58.70	58.59	58.92	58.74	0.29	ppb
Lithium	6-1				63		%
Magnesium	24-2	14365.08	14180.33	14027.60	14191.00	1.19	ppb
Manganese	55-2	2017.91	1968.70	1944.67	1977.09	1.89	ppb
Molybdenum	94-1	15.81	16.38	16.37	16.19	2.01	ppb
Molybdenum	95-1	0.99	1.01	1.03	1.01	2.15	ppb
Molybdenum	96-1	2.91	3.07	3.08	3.02	3.01	ppb
Molybdenum	97-1	1.01	0.98	1.02	1.00	2.11	ppb
Molybdenum	98-1	0.94	0.98	1.00	0.98	3.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	76.09	73.97	72.93	74.33	2.17	ppb
Phosphorus	31-2	1734.79	1732.72	1686.55	1718.02	1.59	ppb
Potassium	39-2	7418.22	7290.84	7345.72	7351.59	0.87	ppb
Rhodium	103-1				111		%
Rhodium	103-2				108		%
Scandium	45-1				100		%
Scandium	45-2				105		%
Selenium	82-1	0.15	0.34	0.34	0.28	40.40	ppb
Selenium	77-2	13.55	14.11	10.24	12.63	16.56	ppb
Selenium	78-2	3.54	3.96	3.00	3.50	13.69	ppb
Silicon	28-1	4639.53	4855.79	4677.08	4724.13	2.45	ppb
Silver	107-1	0.21	0.22	0.21	0.21	2.45	ppb
Silver	109-1	0.21	0.22	0.22	0.22	1.54	ppb
Sodium	23-2	137.36	132.24	133.76	134.45	1.96	ppb
Strontium	86-1	45.79	47.00	46.97	46.59	1.48	ppb
Strontium	88-1	47.89	48.41	48.46	48.25	0.66	ppb
Sulfur	34-1	-1161.63	-1324.80	-1401.72	-1296.05		ppb
Terbium	159-1				121		%
Terbium	159-2				109		%
Thallium	203-1	0.32	0.33	0.33	0.33	2.14	ppb
Thallium	205-1	0.33	0.33	0.33	0.33	0.85	ppb
Tin	118-1	2.26	2.29	2.27	2.27	0.57	ppb
Titanium	47-1	775.45	785.64	786.37	782.49	0.78	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.94	0.95	0.94	0.62	ppb
Vanadium	51-2	142.87	139.30	138.57	140.25	1.64	ppb
Yttrium	89-1				118		%
Yttrium	89-2				111		%
Zinc	66-2	222.69	215.74	214.84	217.75	1.97	ppb
Zirconium	90-1	8.39	8.59	8.63	8.54	1.53	ppb
Zirconium	91-1	8.35	8.67	8.85	8.62	2.97	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43737.14	44290.34	44090.71	44039.40	0.64	ppb
Antimony	121-1	1.46	1.50	1.48	1.48	1.56	ppb
Arsenic	75-2	101.68	101.40	103.06	102.05	0.87	ppb
Barium	135-1	568.17	573.64	569.55	570.45	0.50	ppb
Barium	137-1	574.43	572.63	575.44	574.17	0.25	ppb
Beryllium	9-1	1.74	1.81	1.81	1.79	2.19	ppb
Bismuth	209-1				117		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.53	2.61	2.38	2.51	4.80	ppb
Cadmium	106-1	2.30	2.39	1.62	2.10	20.19	ppb
Cadmium	111-1	1.46	1.51	1.43	1.47	2.95	ppb
Calcium	43-1	12358.38	12596.44	12444.70	12466.50	0.97	ppb
Calcium	44-1	12146.22	12585.11	12292.35	12341.22	1.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	103.62	104.91	107.47	105.33	1.86	ppb
Cobalt	59-2	51.03	51.95	51.05	51.34	1.02	ppb
Copper	63-2	225.48	229.26	229.73	228.16	1.02	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				120		%
Holmium	165-2				111		%
Indium	115-1				115		%
Indium	115-2				103		%
Iron	56-2	99932.74	101266.45	100319.43	100506.21	0.68	ppb
Iron	57-2	96524.75	97798.56	98464.64	97595.99	1.01	ppb
Iron	54-2	97931.79	99261.57	100713.02	99302.13	1.40	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	66.77	67.70	67.83	67.43	0.85	ppb
Lead	207-1	64.93	65.36	65.20	65.16	0.33	ppb
Lead	208-1	65.50	65.86	65.77	65.71	0.28	ppb
Lithium	6-1				65		%
Magnesium	24-2	19706.25	19891.37	20122.48	19906.70	1.05	ppb
Manganese	55-2	2443.80	2473.53	2516.54	2477.96	1.48	ppb
Molybdenum	94-1	29.33	29.56	29.27	29.39	0.52	ppb
Molybdenum	95-1	1.23	1.19	1.26	1.22	2.92	ppb
Molybdenum	96-1	4.71	4.78	4.69	4.73	1.07	ppb
Molybdenum	97-1	1.20	1.23	1.21	1.22	1.27	ppb
Molybdenum	98-1	1.19	1.20	1.17	1.19	1.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	107.49	110.41	109.39	109.10	1.36	ppb
Phosphorus	31-2	2195.09	2206.18	2224.74	2208.67	0.68	ppb
Potassium	39-2	10349.27	10369.92	10478.91	10399.37	0.67	ppb
Rhodium	103-1				110		%
Rhodium	103-2				107		%
Scandium	45-1				103		%
Scandium	45-2				109		%
Selenium	82-1	0.26	0.27	0.00	0.18	85.49	ppb
Selenium	77-2	18.23	18.33	20.15	18.90	5.73	ppb
Selenium	78-2	4.27	4.31	4.38	4.32	1.34	ppb
Silicon	28-1	4762.25	4973.78	4805.35	4847.12	2.31	ppb
Silver	107-1	0.45	0.46	0.46	0.46	0.91	ppb
Silver	109-1	0.45	0.46	0.46	0.46	0.66	ppb
Sodium	23-2	169.47	173.09	173.89	172.15	1.37	ppb
Strontium	86-1	97.05	97.51	97.71	97.42	0.34	ppb
Strontium	88-1	100.23	99.44	99.62	99.76	0.41	ppb
Sulfur	34-1	-1547.27	-1503.85	-1557.26	-1536.12		ppb
Terbium	159-1				120		%
Terbium	159-2				110		%
Thallium	203-1	0.50	0.49	0.50	0.50	0.64	ppb
Thallium	205-1	0.50	0.49	0.50	0.50	0.96	ppb
Tin	118-1	2.92	3.00	2.95	2.96	1.31	ppb
Titanium	47-1	1164.59	1205.14	1192.75	1187.49	1.75	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.60	1.63	1.65	1.63	1.35	ppb
Vanadium	51-2	169.92	172.91	172.25	171.69	0.92	ppb
Yttrium	89-1				120		%
Yttrium	89-2				115		%
Zinc	66-2	278.91	280.85	280.57	280.11	0.37	ppb
Zirconium	90-1	15.72	15.89	15.84	15.82	0.55	ppb
Zirconium	91-1	15.90	16.01	15.96	15.96	0.33	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30305.57	30161.03	30315.83	30260.81	0.29	ppb
Antimony	121-1	1.24	1.26	1.30	1.27	2.14	ppb
Arsenic	75-2	105.99	108.39	105.52	106.63	1.44	ppb
Barium	135-1	447.26	447.00	455.39	449.88	1.06	ppb
Barium	137-1	450.56	447.70	453.69	450.65	0.66	ppb
Beryllium	9-1	1.49	1.63	1.55	1.56	4.38	ppb
Bismuth	209-1				117		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.73	1.54	1.54	1.61	6.71	ppb
Cadmium	106-1	0.73	0.40	0.05	0.39	87.09	ppb
Cadmium	111-1	0.93	0.93	0.87	0.91	3.68	ppb
Calcium	43-1	7011.52	7118.48	7067.04	7065.68	0.76	ppb
Calcium	44-1	6912.31	6996.17	6941.12	6949.87	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	86.94	88.65	87.83	87.81	0.97	ppb
Cobalt	59-2	48.10	48.74	48.50	48.45	0.67	ppb
Copper	63-2	138.90	139.45	137.89	138.75	0.57	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				119		%
Holmium	165-2				110		%
Indium	115-1				114		%
Indium	115-2				104		%
Iron	56-2	92944.45	94306.60	94058.42	93769.82	0.77	ppb
Iron	57-2	91574.06	93499.72	92879.90	92651.23	1.06	ppb
Iron	54-2	92246.22	94470.54	93660.43	93459.06	1.20	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	45.57	45.42	46.35	45.78	1.09	ppb
Lead	207-1	43.70	43.44	44.79	43.98	1.63	ppb
Lead	208-1	44.11	44.00	45.08	44.40	1.35	ppb
Lithium	6-1				62		%
Magnesium	24-2	17627.42	17737.21	17718.18	17694.27	0.33	ppb
Manganese	55-2	2905.45	2943.99	2940.65	2930.03	0.73	ppb
Molybdenum	94-1	19.78	19.87	19.68	19.78	0.47	ppb
Molybdenum	95-1	1.06	1.08	1.07	1.07	0.79	ppb
Molybdenum	96-1	3.49	3.58	3.56	3.54	1.26	ppb
Molybdenum	97-1	1.08	1.06	1.04	1.06	2.07	ppb
Molybdenum	98-1	1.00	1.03	1.04	1.02	2.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	92.78	94.33	94.83	93.98	1.14	ppb
Phosphorus	31-2	1901.72	1926.23	1941.47	1923.14	1.04	ppb
Potassium	39-2	6954.75	7048.54	7067.00	7023.43	0.86	ppb
Rhodium	103-1				109		%
Rhodium	103-2				107		%
Scandium	45-1				100		%
Scandium	45-2				104		%
Selenium	82-1	0.07	-0.01	0.09	0.05	116.60	ppb
Selenium	77-2	15.05	12.52	12.56	13.38	10.83	ppb
Selenium	78-2	2.96	2.86	3.93	3.25	18.21	ppb
Silicon	28-1	5717.04	5669.24	5532.18	5639.49	1.70	ppb
Silver	107-1	0.24	0.23	0.24	0.24	1.02	ppb
Silver	109-1	0.24	0.23	0.23	0.23	2.94	ppb
Sodium	23-2	590.59	597.55	594.07	594.07	0.59	ppb
Strontium	86-1	65.96	68.01	67.28	67.08	1.55	ppb
Strontium	88-1	68.48	69.90	68.58	68.99	1.15	ppb
Sulfur	34-1	-590.96	-636.17	-634.87	-620.66		ppb
Terbium	159-1				119		%
Terbium	159-2				110		%
Thallium	203-1	0.42	0.44	0.45	0.44	3.23	ppb
Thallium	205-1	0.43	0.44	0.45	0.44	1.80	ppb
Tin	118-1	2.02	2.03	2.07	2.04	1.28	ppb
Titanium	47-1	701.37	695.32	697.86	698.18	0.44	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.11	1.13	1.14	1.13	1.30	ppb
Vanadium	51-2	161.65	158.77	156.86	159.09	1.52	ppb
Yttrium	89-1				118		%
Yttrium	89-2				111		%
Zinc	66-2	228.13	231.00	230.34	229.82	0.66	ppb
Zirconium	90-1	10.48	10.70	10.52	10.57	1.12	ppb
Zirconium	91-1	10.52	10.77	10.62	10.64	1.16	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	27700.64	28046.39	28306.47	28017.83	1.08	ppb
Antimony	121-1	1.54	1.51	1.53	1.52	0.96	ppb
Arsenic	75-2	89.31	89.05	89.22	89.20	0.15	ppb
Barium	135-1	386.39	389.16	386.73	387.43	0.39	ppb
Barium	137-1	382.04	386.51	382.70	383.75	0.63	ppb
Beryllium	9-1	1.18	1.27	1.22	1.22	3.47	ppb
Bismuth	209-1				118		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.67	1.78	1.58	1.68	6.14	ppb
Cadmium	106-1	0.44	-0.11	-0.70	-0.12		ppb
Cadmium	111-1	0.99	1.01	0.94	0.98	3.29	ppb
Calcium	43-1	6100.13	6126.82	6137.55	6121.50	0.31	ppb
Calcium	44-1	6027.12	6067.19	5997.77	6030.69	0.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	73.86	73.30	74.30	73.82	0.68	ppb
Cobalt	59-2	46.18	45.77	46.19	46.05	0.51	ppb
Copper	63-2	136.35	132.91	136.50	135.25	1.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				119		%
Holmium	165-2				110		%
Indium	115-1				114		%
Indium	115-2				104		%
Iron	56-2	81616.02	80962.93	81283.98	81287.64	0.40	ppb
Iron	57-2	81200.28	79860.00	82254.43	81104.90	1.48	ppb
Iron	54-2	81631.75	81506.97	82741.56	81960.10	0.83	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	61.20	60.48	62.24	61.31	1.45	ppb
Lead	207-1	58.95	58.47	58.86	58.76	0.43	ppb
Lead	208-1	59.42	59.69	59.68	59.60	0.26	ppb
Lithium	6-1				64		%
Magnesium	24-2	15168.21	14959.59	15152.45	15093.42	0.77	ppb
Manganese	55-2	2239.99	2240.98	2234.35	2238.44	0.16	ppb
Molybdenum	94-1	14.13	14.51	14.28	14.30	1.34	ppb
Molybdenum	95-1	1.09	1.08	1.10	1.09	1.01	ppb
Molybdenum	96-1	2.93	2.96	2.94	2.95	0.60	ppb
Molybdenum	97-1	1.05	1.06	1.09	1.07	1.67	ppb
Molybdenum	98-1	1.05	1.06	1.08	1.06	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	76.84	75.66	76.40	76.30	0.78	ppb
Phosphorus	31-2	1685.46	1710.41	1720.56	1705.48	1.06	ppb
Potassium	39-2	6712.29	6568.59	6656.89	6645.93	1.09	ppb
Rhodium	103-1				109		%
Rhodium	103-2				107		%
Scandium	45-1				100		%
Scandium	45-2				104		%
Selenium	82-1	-0.27	-0.08	-0.02	-0.12		ppb
Selenium	77-2	10.04	11.53	11.07	10.88	7.00	ppb
Selenium	78-2	2.06	3.18	2.55	2.60	21.64	ppb
Silicon	28-1	5187.80	5214.67	5225.93	5209.46	0.38	ppb
Silver	107-1	0.19	0.19	0.19	0.19	0.82	ppb
Silver	109-1	0.20	0.19	0.20	0.20	1.50	ppb
Sodium	23-2	113.47	111.49	113.79	112.91	1.10	ppb
Strontium	86-1	41.74	42.18	41.88	41.93	0.54	ppb
Strontium	88-1	42.41	43.02	42.86	42.77	0.75	ppb
Sulfur	34-1	-1600.82	-1632.11	-1655.37	-1629.44		ppb
Terbium	159-1				121		%
Terbium	159-2				110		%
Thallium	203-1	0.34	0.34	0.35	0.34	1.78	ppb
Thallium	205-1	0.35	0.34	0.35	0.35	1.38	ppb
Tin	118-1	2.20	2.18	2.24	2.21	1.29	ppb
Titanium	47-1	690.72	681.18	676.78	682.89	1.04	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.92	0.92	0.92	0.81	ppb
Vanadium	51-2	154.07	150.55	152.19	152.27	1.15	ppb
Yttrium	89-1				116		%
Yttrium	89-2				110		%
Zinc	66-2	252.56	250.06	251.35	251.33	0.50	ppb
Zirconium	90-1	7.40	7.43	7.45	7.43	0.35	ppb
Zirconium	91-1	7.37	7.55	7.46	7.46	1.15	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10920.06	10842.89	10770.38	10844.44	0.69	ppb
Antimony	121-1	0.20	0.20	0.22	0.21	3.60	ppb
Arsenic	75-2	10.71	11.15	10.96	10.94	2.02	ppb
Barium	135-1	289.19	288.03	281.13	286.12	1.52	ppb
Barium	137-1	290.97	290.27	287.65	289.63	0.60	ppb
Beryllium	9-1	0.57	0.53	0.48	0.53	7.89	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.74	0.64	0.82	0.73	12.63	ppb
Cadmium	106-1	-0.63	0.09	-0.51	-0.35		ppb
Cadmium	111-1	0.13	0.21	0.13	0.16	31.13	ppb
Calcium	43-1	59465.33	60070.63	58453.60	59329.85	1.38	ppb
Calcium	44-1	58585.97	60024.70	58752.83	59121.17	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.47	43.76	42.88	43.37	1.03	ppb
Cobalt	59-2	15.33	15.37	15.22	15.30	0.50	ppb
Copper	63-2	37.11	36.82	36.37	36.77	1.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				110		%
Indium	115-1				114		%
Indium	115-2				104		%
Iron	56-2	28441.50	28583.00	28135.71	28386.73	0.81	ppb
Iron	57-2	28313.18	28348.59	27902.54	28188.10	0.88	ppb
Iron	54-2	28271.83	28304.58	28365.50	28313.97	0.17	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.33	8.40	8.53	8.42	1.19	ppb
Lead	207-1	7.33	7.35	7.45	7.38	0.86	ppb
Lead	208-1	7.79	7.93	7.94	7.89	1.08	ppb
Lithium	6-1				62		%
Magnesium	24-2	21013.50	21083.47	20679.39	20925.45	1.03	ppb
Manganese	55-2	612.78	619.65	608.53	613.65	0.91	ppb
Molybdenum	94-1	15.08	15.56	15.10	15.25	1.79	ppb
Molybdenum	95-1	0.48	0.49	0.49	0.49	1.31	ppb
Molybdenum	96-1	2.18	2.20	2.16	2.18	0.90	ppb
Molybdenum	97-1	0.49	0.50	0.48	0.49	1.99	ppb
Molybdenum	98-1	0.46	0.47	0.47	0.47	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	66.71	66.60	65.34	66.21	1.15	ppb
Phosphorus	31-2	1307.36	1351.36	1333.34	1330.68	1.66	ppb
Potassium	39-2	2095.34	2073.93	2065.31	2078.19	0.74	ppb
Rhodium	103-1				109		%
Rhodium	103-2				107		%
Scandium	45-1				96		%
Scandium	45-2				102		%
Selenium	82-1	-0.17	-0.53	-0.38	-0.36		ppb
Selenium	77-2	8.44	7.37	8.75	8.19	8.83	ppb
Selenium	78-2	1.82	2.26	2.07	2.05	10.91	ppb
Silicon	28-1	4525.83	4491.46	4478.72	4498.67	0.54	ppb
Silver	107-1	0.05	0.06	0.05	0.06	3.90	ppb
Silver	109-1	0.05	0.05	0.05	0.05	3.00	ppb
Sodium	23-2	838.53	827.67	808.08	824.76	1.87	ppb
Strontium	86-1	101.72	103.88	101.55	102.38	1.27	ppb
Strontium	88-1	105.70	106.90	105.70	106.10	0.66	ppb
Sulfur	34-1	-1097.75	-897.58	-963.49	-986.27		ppb
Terbium	159-1				119		%
Terbium	159-2				110		%
Thallium	203-1	0.09	0.10	0.09	0.09	5.69	ppb
Thallium	205-1	0.10	0.09	0.09	0.09	1.08	ppb
Tin	118-1	1.61	1.68	1.62	1.64	2.58	ppb
Titanium	47-1	1112.79	1126.32	1119.54	1119.55	0.60	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.11	1.14	1.12	1.13	1.06	ppb
Vanadium	51-2	53.71	53.58	53.18	53.49	0.51	ppb
Yttrium	89-1				115		%
Yttrium	89-2				109		%
Zinc	66-2	64.53	64.31	63.92	64.25	0.48	ppb
Zirconium	90-1	8.21	8.38	8.22	8.27	1.12	ppb
Zirconium	91-1	8.28	8.44	8.17	8.30	1.64	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47311.58	47203.07	47437.37	47317.34	0.25	ppb
Antimony	121-1	1.63	1.66	1.69	1.66	1.97	ppb
Arsenic	75-2	136.13	134.44	135.43	135.33	0.63	ppb
Barium	135-1	266.89	263.86	275.23	268.66	2.19	ppb
Barium	137-1	267.63	265.81	274.07	269.17	1.61	ppb
Beryllium	9-1	1.16	1.27	1.26	1.23	5.11	ppb
Bismuth	209-1				118		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.81	1.87	1.78	1.82	2.44	ppb
Cadmium	106-1	1.20	0.79	0.82	0.94	24.48	ppb
Cadmium	111-1	1.47	1.40	1.49	1.45	3.12	ppb
Calcium	43-1	14128.34	14216.64	14325.91	14223.63	0.70	ppb
Calcium	44-1	14017.54	14099.49	14239.99	14119.01	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	54.49	54.25	55.04	54.59	0.75	ppb
Cobalt	59-2	62.37	61.34	62.59	62.10	1.07	ppb
Copper	63-2	183.31	178.54	184.01	181.96	1.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				120		%
Holmium	165-2				110		%
Indium	115-1				114		%
Indium	115-2				103		%
Iron	56-2	114388.85	112595.79	115732.63	114239.09	1.38	ppb
Iron	57-2	112809.05	111837.61	114550.04	113065.56	1.22	ppb
Iron	54-2	113677.25	112751.91	115590.38	114006.51	1.27	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	30.03	31.27	31.74	31.01	2.86	ppb
Lead	207-1	28.85	29.68	30.05	29.52	2.08	ppb
Lead	208-1	29.34	30.27	30.64	30.08	2.22	ppb
Lithium	6-1				60		%
Magnesium	24-2	20218.41	19944.75	20164.84	20109.33	0.72	ppb
Manganese	55-2	2712.81	2660.34	2750.04	2707.73	1.66	ppb
Molybdenum	94-1	9.11	9.45	9.60	9.39	2.69	ppb
Molybdenum	95-1	1.13	1.17	1.17	1.16	2.14	ppb
Molybdenum	96-1	2.60	2.71	2.83	2.71	4.39	ppb
Molybdenum	97-1	1.09	1.19	1.13	1.14	4.40	ppb
Molybdenum	98-1	1.08	1.12	1.14	1.11	2.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.94	51.96	52.81	52.23	0.95	ppb
Phosphorus	31-2	1411.89	1394.18	1443.28	1416.45	1.76	ppb
Potassium	39-2	3524.18	3556.08	3495.22	3525.16	0.86	ppb
Rhodium	103-1				110		%
Rhodium	103-2				106		%
Scandium	45-1				101		%
Scandium	45-2				106		%
Selenium	82-1	-0.26	-0.03	-0.28	-0.19		ppb
Selenium	77-2	8.82	11.33	10.19	10.11	12.45	ppb
Selenium	78-2	2.69	2.22	2.60	2.50	10.05	ppb
Silicon	28-1	4613.03	4646.04	4616.28	4625.12	0.39	ppb
Silver	107-1	0.49	0.51	0.51	0.50	1.83	ppb
Silver	109-1	0.50	0.51	0.51	0.51	0.36	ppb
Sodium	23-2	451.26	444.11	459.07	451.48	1.66	ppb
Strontium	86-1	78.22	81.84	80.86	80.31	2.33	ppb
Strontium	88-1	81.12	83.74	83.75	82.87	1.83	ppb
Sulfur	34-1	-1366.58	-1602.21	-1684.12	-1550.97		ppb
Terbium	159-1				121		%
Terbium	159-2				109		%
Thallium	203-1	0.26	0.27	0.28	0.27	3.29	ppb
Thallium	205-1	0.26	0.27	0.28	0.27	2.23	ppb
Tin	118-1	2.23	2.25	2.34	2.27	2.70	ppb
Titanium	47-1	1582.73	1587.66	1595.11	1588.50	0.39	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.84	0.87	0.89	0.87	2.96	ppb
Vanadium	51-2	185.73	184.09	189.28	186.36	1.42	ppb
Yttrium	89-1				119		%
Yttrium	89-2				111		%
Zinc	66-2	439.65	436.22	444.15	440.01	0.90	ppb
Zirconium	90-1	4.61	4.71	4.74	4.69	1.39	ppb
Zirconium	91-1	4.66	4.76	4.81	4.74	1.68	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	59405.88	58411.59	58112.08	58643.18	1.15	ppb
Antimony	121-1	1.95	1.99	2.03	1.99	1.98	ppb
Arsenic	75-2	133.92	133.29	132.17	133.13	0.67	ppb
Barium	135-1	273.04	277.70	273.51	274.75	0.93	ppb
Barium	137-1	273.48	273.47	278.58	275.18	1.07	ppb
Beryllium	9-1	1.16	1.17	1.12	1.15	2.47	ppb
Bismuth	209-1				115		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.46	2.77	2.57	2.60	5.97	ppb
Cadmium	106-1	0.84	0.92	0.47	0.74	32.11	ppb
Cadmium	111-1	2.35	2.31	2.32	2.33	0.81	ppb
Calcium	43-1	18591.31	18912.32	19228.53	18910.72	1.68	ppb
Calcium	44-1	19032.30	19462.42	19084.27	19193.00	1.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	58.58	57.39	56.91	57.63	1.50	ppb
Cobalt	59-2	99.77	97.60	97.44	98.27	1.32	ppb
Copper	63-2	245.59	244.05	245.58	245.07	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				101		%
Iron	56-2	151114.49	150877.06	152093.44	151361.66	0.43	ppb
Iron	57-2	152242.31	151330.97	150984.19	151519.16	0.43	ppb
Iron	54-2	151683.45	150795.04	149650.91	150709.80	0.68	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	32.64	33.70	33.40	33.25	1.64	ppb
Lead	207-1	31.44	32.24	32.05	31.91	1.32	ppb
Lead	208-1	31.63	32.73	32.43	32.26	1.76	ppb
Lithium	6-1				58		%
Magnesium	24-2	26433.56	25882.44	25959.53	26091.84	1.14	ppb
Manganese	55-2	3910.53	3903.44	3861.72	3891.90	0.68	ppb
Molybdenum	94-1	5.23	5.31	5.34	5.29	1.08	ppb
Molybdenum	95-1	1.53	1.56	1.57	1.55	1.23	ppb
Molybdenum	96-1	2.70	2.80	2.82	2.77	2.45	ppb
Molybdenum	97-1	1.56	1.52	1.55	1.55	1.41	ppb
Molybdenum	98-1	1.47	1.51	1.51	1.50	1.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.27	50.88	51.08	51.07	0.38	ppb
Phosphorus	31-2	1583.71	1557.34	1529.36	1556.80	1.75	ppb
Potassium	39-2	2498.92	2433.93	2456.83	2463.23	1.34	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				101		%
Scandium	45-2				105		%
Selenium	82-1	-0.46	-0.37	-0.25	-0.36		ppb
Selenium	77-2	8.11	8.92	7.92	8.31	6.40	ppb
Selenium	78-2	2.00	1.85	1.05	1.63	31.17	ppb
Silicon	28-1	5055.10	5241.67	5105.35	5134.04	1.88	ppb
Silver	107-1	0.88	0.88	0.89	0.88	0.75	ppb
Silver	109-1	0.89	0.89	0.89	0.89	0.46	ppb
Sodium	23-2	683.00	648.65	673.82	668.49	2.66	ppb
Strontium	86-1	104.74	106.28	107.16	106.06	1.16	ppb
Strontium	88-1	106.77	107.53	109.82	108.04	1.47	ppb
Sulfur	34-1	-1806.52	-1774.36	-1837.57	-1806.15		ppb
Terbium	159-1				120		%
Terbium	159-2				109		%
Thallium	203-1	0.27	0.27	0.27	0.27	1.38	ppb
Thallium	205-1	0.26	0.27	0.27	0.27	3.74	ppb
Tin	118-1	1.73	1.72	1.71	1.72	0.78	ppb
Titanium	47-1	2022.10	2085.81	2077.60	2061.84	1.68	ppb

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.60	0.62	0.60	0.61	1.93	ppb
Vanadium	51-2	245.02	244.15	239.83	243.00	1.14	ppb
Yttrium	89-1				117		%
Yttrium	89-2				110		%
Zinc	66-2	613.44	605.88	610.20	609.84	0.62	ppb
Zirconium	90-1	2.16	2.24	2.24	2.22	1.97	ppb
Zirconium	91-1	2.25	2.21	2.29	2.25	1.77	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41900.00	43076.97	42536.74	42504.57	1.39	ppb
Antimony	121-1	1.50	1.54	1.55	1.53	1.58	ppb
Arsenic	75-2	111.10	110.71	111.98	111.26	0.59	ppb
Barium	135-1	558.14	580.10	576.57	571.61	2.06	ppb
Barium	137-1	557.38	571.97	567.87	565.74	1.33	ppb
Beryllium	9-1	1.93	1.78	1.88	1.86	4.20	ppb
Bismuth	209-1				118		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.04	1.92	2.27	2.08	8.46	ppb
Cadmium	106-1	1.19	1.34	0.59	1.04	38.37	ppb
Cadmium	111-1	1.23	1.32	1.25	1.26	3.56	ppb
Calcium	43-1	12696.93	13328.15	13108.08	13044.39	2.46	ppb
Calcium	44-1	12590.97	13232.28	12966.08	12929.78	2.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.49	98.89	97.67	97.68	1.23	ppb
Cobalt	59-2	51.15	52.61	52.30	52.02	1.49	ppb
Copper	63-2	213.67	210.30	216.58	213.52	1.47	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				119		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				103		%
Iron	56-2	100220.60	102528.21	102057.80	101602.20	1.20	ppb
Iron	57-2	101342.17	101642.76	101640.98	101541.97	0.17	ppb
Iron	54-2	99857.29	102406.65	101275.69	101179.88	1.26	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	61.02	62.63	62.70	62.12	1.53	ppb
Lead	207-1	59.29	60.45	61.13	60.29	1.54	ppb
Lead	208-1	59.61	61.82	61.02	60.82	1.84	ppb
Lithium	6-1				62		%
Magnesium	24-2	20258.95	21046.56	20766.97	20690.82	1.93	ppb
Manganese	55-2	2544.98	2624.94	2589.20	2586.38	1.55	ppb
Molybdenum	94-1	23.56	24.15	24.22	23.98	1.52	ppb
Molybdenum	95-1	1.16	1.21	1.20	1.19	1.93	ppb
Molybdenum	96-1	4.00	4.21	4.22	4.15	3.07	ppb
Molybdenum	97-1	1.16	1.18	1.20	1.18	1.93	ppb
Molybdenum	98-1	1.14	1.14	1.17	1.15	1.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	102.89	105.34	104.53	104.26	1.20	ppb
Phosphorus	31-2	2309.77	2344.86	2335.38	2330.00	0.78	ppb
Potassium	39-2	10506.25	10560.83	10646.92	10571.33	0.67	ppb
Rhodium	103-1				108		%
Rhodium	103-2				106		%
Scandium	45-1				101		%
Scandium	45-2				106		%
Selenium	82-1	0.29	0.21	0.46	0.32	39.72	ppb
Selenium	77-2	19.64	18.09	19.94	19.22	5.15	ppb
Selenium	78-2	3.72	3.28	3.99	3.66	9.91	ppb
Silicon	28-1	4843.28	4926.06	4956.42	4908.59	1.19	ppb
Silver	107-1	0.38	0.38	0.39	0.39	0.70	ppb
Silver	109-1	0.39	0.38	0.38	0.38	0.87	ppb
Sodium	23-2	212.25	218.21	216.89	215.78	1.45	ppb
Strontium	86-1	91.66	94.31	94.99	93.65	1.87	ppb
Strontium	88-1	95.32	96.58	98.36	96.75	1.58	ppb
Sulfur	34-1	-1425.12	-1396.01	-1423.08	-1414.74		ppb
Terbium	159-1				120		%
Terbium	159-2				109		%
Thallium	203-1	0.48	0.50	0.50	0.49	2.18	ppb
Thallium	205-1	0.48	0.50	0.50	0.49	2.06	ppb
Tin	118-1	2.58	2.70	2.69	2.66	2.51	ppb
Titanium	47-1	979.41	1042.39	1026.38	1016.06	3.22	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.39	1.43	1.45	1.42	1.92	ppb
Vanadium	51-2	178.10	182.85	181.68	180.88	1.37	ppb
Yttrium	89-1				119		%
Yttrium	89-2				111		%
Zinc	66-2	279.34	284.37	285.74	283.15	1.19	ppb
Zirconium	90-1	12.40	13.01	12.95	12.79	2.61	ppb
Zirconium	91-1	12.49	13.07	13.10	12.89	2.68	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41194.63	41046.57	41768.79	41336.67	0.92	ppb
Antimony	121-1	1.49	1.48	1.46	1.48	1.02	ppb
Arsenic	75-2	108.78	109.93	108.51	109.07	0.69	ppb
Barium	135-1	553.66	551.62	560.82	555.37	0.87	ppb
Barium	137-1	562.06	553.99	559.16	558.40	0.73	ppb
Beryllium	9-1	1.71	1.70	1.66	1.69	1.27	ppb
Bismuth	209-1				117		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.97	1.92	2.15	2.02	5.80	ppb
Cadmium	106-1	1.66	0.57	0.81	1.01	56.57	ppb
Cadmium	111-1	1.29	1.19	1.19	1.22	4.98	ppb
Calcium	43-1	12905.35	12910.10	12760.90	12858.78	0.66	ppb
Calcium	44-1	12823.30	12638.92	12740.84	12734.36	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	95.04	94.65	96.76	95.48	1.17	ppb
Cobalt	59-2	50.43	50.21	51.03	50.55	0.84	ppb
Copper	63-2	211.63	207.48	212.38	210.50	1.25	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				109		%
Indium	115-1				111		%
Indium	115-2				101		%
Iron	56-2	99434.28	98526.20	100738.01	99566.16	1.12	ppb
Iron	57-2	99977.83	98006.50	99988.97	99324.43	1.15	ppb
Iron	54-2	99283.48	98300.29	100051.01	99211.60	0.88	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	60.53	61.06	60.87	60.82	0.44	ppb
Lead	207-1	59.27	59.12	59.18	59.19	0.13	ppb
Lead	208-1	59.86	59.67	59.58	59.70	0.25	ppb
Lithium	6-1				63		%
Magnesium	24-2	20094.55	20066.96	20601.73	20254.41	1.49	ppb
Manganese	55-2	2508.20	2491.73	2567.69	2522.54	1.58	ppb
Molybdenum	94-1	23.33	23.20	23.28	23.27	0.27	ppb
Molybdenum	95-1	1.14	1.11	1.12	1.13	1.20	ppb
Molybdenum	96-1	3.99	3.97	4.03	4.00	0.83	ppb
Molybdenum	97-1	1.11	1.13	1.12	1.12	0.79	ppb
Molybdenum	98-1	1.09	1.10	1.10	1.10	0.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	101.22	101.58	102.25	101.68	0.52	ppb
Phosphorus	31-2	2269.64	2272.25	2346.83	2296.24	1.91	ppb
Potassium	39-2	10235.86	10240.98	10428.90	10301.91	1.07	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				99		%
Scandium	45-2				104		%
Selenium	82-1	0.39	0.03	-0.24	0.06	527.31	ppb
Selenium	77-2	18.62	18.51	19.72	18.95	3.54	ppb
Selenium	78-2	2.99	4.09	4.08	3.72	17.06	ppb
Silicon	28-1	4993.66	4981.33	4987.09	4987.36	0.12	ppb
Silver	107-1	0.38	0.36	0.37	0.37	2.18	ppb
Silver	109-1	0.37	0.37	0.37	0.37	1.05	ppb
Sodium	23-2	211.30	210.34	216.30	212.65	1.51	ppb
Strontium	86-1	92.13	90.92	91.39	91.48	0.67	ppb
Strontium	88-1	94.54	95.04	93.99	94.52	0.55	ppb
Sulfur	34-1	-1361.27	-1368.02	-1419.86	-1383.05		ppb
Terbium	159-1				119		%
Terbium	159-2				108		%
Thallium	203-1	0.47	0.47	0.48	0.47	0.87	ppb
Thallium	205-1	0.48	0.47	0.48	0.48	1.08	ppb
Tin	118-1	2.59	2.57	2.60	2.58	0.65	ppb
Titanium	47-1	1001.76	1000.39	986.95	996.37	0.82	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.41	1.40	1.40	1.40	0.23	ppb
Vanadium	51-2	179.39	176.36	179.95	178.57	1.08	ppb
Yttrium	89-1				117		%
Yttrium	89-2				110		%
Zinc	66-2	275.19	274.58	280.38	276.72	1.15	ppb
Zirconium	90-1	12.46	12.38	12.46	12.43	0.38	ppb
Zirconium	91-1	12.44	12.53	12.57	12.51	0.53	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48378.16	48005.82	48475.81	48286.60	0.51	ppb
Antimony	121-1	519.19	519.42	512.76	517.12	0.73	ppb
Arsenic	75-2	512.19	511.93	504.95	509.69	0.81	ppb
Barium	135-1	2548.37	2557.19	2541.38	2548.98	0.31	ppb
Barium	137-1	2598.02	2538.48	2531.09	2555.87	1.44	ppb
Beryllium	9-1	484.45	487.09	529.85	500.46	5.09	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	533.41	533.44	527.49	531.45	0.65	ppb
Cadmium	106-1	536.45	536.11	528.85	533.80	0.81	ppb
Cadmium	111-1	552.98	551.06	533.26	545.77	1.99	ppb
Calcium	43-1	241579.53	239857.23	238023.93	239820.23	0.74	ppb
Calcium	44-1	241968.91	240738.89	239028.13	240578.64	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	482.23	484.12	477.66	481.33	0.69	ppb
Cobalt	59-2	518.32	513.65	514.22	515.40	0.49	ppb
Copper	63-2	4916.91	4894.38	4850.15	4887.15	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	122657.21	123207.88	122030.57	122631.89	0.48	ppb
Iron	57-2	122555.54	122864.71	122060.60	122493.62	0.33	ppb
Iron	54-2	124087.69	122629.43	121716.69	122811.27	0.97	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2497.71	2576.06	2519.71	2531.16	1.60	ppb
Lead	207-1	2468.63	2558.88	2478.27	2501.93	1.98	ppb
Lead	208-1	2483.82	2550.45	2492.99	2509.09	1.44	ppb
Lithium	6-1				80		%
Magnesium	24-2	253217.05	253294.70	245942.32	250818.02	1.68	ppb
Manganese	55-2	4843.13	4862.70	4810.78	4838.87	0.54	ppb
Molybdenum	94-1	4974.58	4930.39	4968.66	4957.88	0.48	ppb
Molybdenum	95-1	4985.06	4933.94	4947.26	4955.42	0.54	ppb
Molybdenum	96-1	4985.22	4919.11	4927.64	4943.99	0.73	ppb
Molybdenum	97-1	5000.97	4889.37	4895.70	4928.68	1.27	ppb
Molybdenum	98-1	5050.44	4948.46	4955.09	4984.66	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	508.34	502.02	505.34	505.23	0.63	ppb
Phosphorus	31-2	9636.77	9547.75	9561.10	9581.87	0.50	ppb
Potassium	39-2	120377.18	120731.10	120246.73	120451.67	0.21	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				107		%
Scandium	45-2				112		%
Selenium	82-1	525.14	516.97	516.69	519.60	0.92	ppb
Selenium	77-2	501.26	524.07	517.08	514.14	2.27	ppb
Selenium	78-2	506.56	515.02	505.95	509.17	1.00	ppb
Silicon	28-1	491.47	480.69	481.93	484.70	1.22	ppb
Silver	107-1	544.17	546.30	529.67	540.05	1.68	ppb
Silver	109-1	538.54	535.48	523.48	532.50	1.50	ppb
Sodium	23-2	239133.42	237523.37	236441.79	237699.53	0.57	ppb
Strontium	86-1	511.95	508.67	505.73	508.79	0.61	ppb
Strontium	88-1	512.64	515.86	513.51	514.01	0.32	ppb
Sulfur	34-1	9417.14	9252.64	9458.19	9375.99	1.16	ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	500.55	512.34	492.08	501.66	2.03	ppb
Thallium	205-1	503.13	518.49	502.68	508.10	1.77	ppb
Tin	118-1	518.89	519.09	509.57	515.85	1.05	ppb
Titanium	47-1	4863.79	4885.56	4889.34	4879.57	0.28	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	501.21	518.96	502.65	507.61	1.94	ppb
Vanadium	51-2	494.84	495.99	488.30	493.04	0.84	ppb
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	5024.30	4984.33	4922.13	4976.92	1.03	ppb
Zirconium	90-1	504.48	500.77	497.11	500.79	0.74	ppb
Zirconium	91-1	495.22	499.07	498.59	497.63	0.42	ppb

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.77	0.66	0.62	0.68	11.70	ppb
Antimony	121-1	0.18	0.22	0.27	0.22	18.22	ppb
Arsenic	75-2	0.03	0.01	0.02	0.02	33.28	ppb
Barium	135-1	0.15	0.09	0.06	0.10	43.57	ppb
Barium	137-1	0.16	0.09	0.05	0.10	56.36	ppb
Beryllium	9-1	0.15	0.10	0.10	0.12	23.32	ppb
Bismuth	209-1				108		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.09	0.07	0.05	0.07	27.72	ppb
Cadmium	106-1	0.29	-0.17	-0.39	-0.09		ppb
Cadmium	111-1	0.07	0.02	-0.01	0.03	133.94	ppb
Calcium	43-1	13.57	5.57	3.07	7.40	74.04	ppb
Calcium	44-1	32.75	24.60	20.17	25.84	24.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.01	0.03	0.02	38.52	ppb
Cobalt	59-2	0.01	0.01	0.00	0.01	32.95	ppb
Copper	63-2	0.15	0.14	0.14	0.14	4.89	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				111		%
Indium	115-1				116		%
Indium	115-2				115		%
Iron	56-2	3.33	2.98	2.77	3.03	9.35	ppb
Iron	57-2	3.23	2.64	2.72	2.86	11.09	ppb
Iron	54-2	2.98	2.49	2.18	2.55	15.82	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.22	0.14	0.11	0.15	36.49	ppb
Lead	207-1	0.22	0.14	0.10	0.15	39.30	ppb
Lead	208-1	0.22	0.14	0.10	0.15	38.11	ppb
Lithium	6-1				89		%
Magnesium	24-2	4.08	3.58	3.18	3.61	12.50	ppb
Manganese	55-2	0.90	0.93	0.93	0.92	1.91	ppb
Molybdenum	94-1	0.43	0.28	0.24	0.32	32.25	ppb
Molybdenum	95-1	0.40	0.29	0.24	0.31	26.57	ppb
Molybdenum	96-1	0.41	0.27	0.23	0.30	30.74	ppb
Molybdenum	97-1	0.40	0.28	0.24	0.31	28.07	ppb
Molybdenum	98-1	0.42	0.29	0.24	0.32	29.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.02	0.04	0.03	38.96	ppb
Phosphorus	31-2	-17.81	-20.48	-16.73	-18.34		ppb
Potassium	39-2	26.72	25.05	22.95	24.91	7.57	ppb
Rhodium	103-1				114		%
Rhodium	103-2				113		%
Scandium	45-1				112		%
Scandium	45-2				115		%
Selenium	82-1	-0.46	-0.32	-0.29	-0.36		ppb
Selenium	77-2	0.11	-0.03	0.11	0.06	122.87	ppb
Selenium	78-2	0.45	0.77	0.68	0.63	26.13	ppb
Silicon	28-1	1.96	-0.39	-0.70	0.29	505.11	ppb
Silver	107-1	0.05	0.04	0.03	0.04	25.67	ppb
Silver	109-1	0.06	0.04	0.03	0.04	26.65	ppb
Sodium	23-2	35.72	34.31	33.45	34.49	3.31	ppb
Strontium	86-1	0.05	0.03	0.02	0.03	42.45	ppb
Strontium	88-1	0.06	0.04	0.02	0.04	42.23	ppb
Sulfur	34-1	-1023.46	-1062.12	-1091.74	-1059.11		ppb
Terbium	159-1				113		%
Terbium	159-2				111		%
Thallium	203-1	0.11	0.10	0.08	0.10	14.18	ppb
Thallium	205-1	0.12	0.09	0.09	0.10	16.10	ppb
Tin	118-1	0.04	0.03	0.03	0.03	29.30	ppb
Titanium	47-1	0.36	0.22	0.14	0.24	46.38	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.02	0.01	0.02	49.32	ppb
Vanadium	51-2	0.01	0.01	0.00	0.01	43.58	ppb
Yttrium	89-1				116		%
Yttrium	89-2				118		%
Zinc	66-2	0.32	0.28	0.29	0.30	6.34	ppb
Zirconium	90-1	0.04	0.02	0.02	0.03	42.11	ppb
Zirconium	91-1	0.04	0.03	0.02	0.03	47.16	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9554.07	9817.56	9604.65	9658.76	1.45	ppb
Antimony	121-1	0.42	0.45	0.48	0.45	6.41	ppb
Arsenic	75-2	24.90	25.10	24.49	24.83	1.25	ppb
Barium	135-1	125.27	123.86	124.02	124.38	0.62	ppb
Barium	137-1	126.77	125.29	126.10	126.05	0.59	ppb
Beryllium	9-1	0.45	0.45	0.46	0.45	1.71	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.40	0.49	0.49	0.46	11.96	ppb
Cadmium	106-1	0.75	0.74	0.62	0.70	10.42	ppb
Cadmium	111-1	0.36	0.33	0.35	0.35	3.34	ppb
Calcium	43-1	2940.23	2972.87	2909.55	2940.88	1.08	ppb
Calcium	44-1	2967.13	2932.03	2928.70	2942.62	0.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.56	20.66	20.28	20.50	0.97	ppb
Cobalt	59-2	10.79	10.75	10.58	10.71	1.06	ppb
Copper	63-2	43.58	43.48	42.57	43.21	1.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				111		%
Indium	115-1				116		%
Indium	115-2				117		%
Iron	56-2	21766.83	21670.59	21221.42	21552.95	1.35	ppb
Iron	57-2	21291.11	21140.60	20935.14	21122.29	0.85	ppb
Iron	54-2	21722.79	21423.55	21265.82	21470.72	1.08	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.36	13.44	13.14	13.31	1.19	ppb
Lead	207-1	12.93	12.88	12.66	12.82	1.13	ppb
Lead	208-1	13.07	13.12	12.83	13.01	1.18	ppb
Lithium	6-1				84		%
Magnesium	24-2	4545.49	4633.95	4510.52	4563.32	1.39	ppb
Manganese	55-2	568.22	566.20	555.09	563.17	1.26	ppb
Molybdenum	94-1	5.36	5.22	5.18	5.25	1.85	ppb
Molybdenum	95-1	0.31	0.31	0.32	0.31	1.12	ppb
Molybdenum	96-1	0.94	0.94	0.93	0.94	0.58	ppb
Molybdenum	97-1	0.30	0.32	0.34	0.32	6.09	ppb
Molybdenum	98-1	0.31	0.30	0.31	0.31	1.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.53	21.49	21.20	21.41	0.85	ppb
Phosphorus	31-2	514.06	508.44	497.89	506.80	1.62	ppb
Potassium	39-2	2416.94	2395.95	2368.13	2393.67	1.02	ppb
Rhodium	103-1				115		%
Rhodium	103-2				115		%
Scandium	45-1				115		%
Scandium	45-2				124		%
Selenium	82-1	0.13	0.19	-0.29	0.01	2590.97	ppb
Selenium	77-2	4.34	5.22	4.66	4.74	9.42	ppb
Selenium	78-2	2.16	1.85	1.91	1.97	8.24	ppb
Silicon	28-1	1151.20	1133.09	1089.02	1124.44	2.84	ppb
Silver	107-1	0.11	0.11	0.11	0.11	1.60	ppb
Silver	109-1	0.11	0.11	0.11	0.11	0.62	ppb
Sodium	23-2	74.34	75.92	75.18	75.15	1.05	ppb
Strontium	86-1	21.45	20.99	20.88	21.11	1.44	ppb
Strontium	88-1	22.15	22.18	21.65	21.99	1.36	ppb
Sulfur	34-1	-992.78	-1043.60	-1096.61	-1044.33		ppb
Terbium	159-1				115		%
Terbium	159-2				111		%
Thallium	203-1	0.20	0.20	0.18	0.20	5.30	ppb
Thallium	205-1	0.20	0.19	0.18	0.19	4.57	ppb
Tin	118-1	0.63	0.60	0.61	0.62	2.60	ppb
Titanium	47-1	216.02	215.02	211.66	214.23	1.07	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.30	0.30	0.30	0.30	0.84	ppb
Vanadium	51-2	37.52	37.42	36.55	37.16	1.44	ppb
Yttrium	89-1				121		%
Yttrium	89-2				123		%
Zinc	66-2	59.25	60.15	58.65	59.35	1.27	ppb
Zirconium	90-1	2.83	2.79	2.76	2.79	1.25	ppb
Zirconium	91-1	2.83	2.83	2.78	2.81	1.08	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43469.04	42140.51	43519.26	43042.93	1.82	ppb
Antimony	121-1	75.05	75.08	72.33	74.15	2.13	ppb
Arsenic	75-2	136.39	133.21	133.23	134.28	1.37	ppb
Barium	135-1	2003.81	1980.61	1946.76	1977.06	1.45	ppb
Barium	137-1	2033.50	1960.03	1946.40	1979.98	2.37	ppb
Beryllium	9-1	35.67	38.28	37.26	37.07	3.56	ppb
Bismuth	209-1				106		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	33.71	33.74	32.76	33.40	1.68	ppb
Cadmium	106-1	36.09	34.76	33.18	34.68	4.20	ppb
Cadmium	111-1	37.44	37.25	36.46	37.05	1.40	ppb
Calcium	43-1	13173.41	13183.24	13065.34	13140.66	0.50	ppb
Calcium	44-1	13181.60	13259.46	12925.92	13122.33	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	227.82	217.51	222.97	222.77	2.31	ppb
Cobalt	59-2	366.18	359.53	361.08	362.26	0.96	ppb
Copper	63-2	348.58	339.40	340.62	342.87	1.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				110		%
Indium	115-1				117		%
Indium	115-2				113		%
Iron	56-2	100536.81	96350.19	97634.00	98173.66	2.18	ppb
Iron	57-2	97802.39	95182.86	97176.49	96720.58	1.41	ppb
Iron	54-2	99448.01	96441.80	98018.17	97969.33	1.53	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	76.27	76.65	75.43	76.12	0.82	ppb
Lead	207-1	74.64	73.63	73.43	73.90	0.88	ppb
Lead	208-1	75.91	73.94	73.69	74.51	1.64	ppb
Lithium	6-1				66		%
Magnesium	24-2	20277.62	19595.47	20350.07	20074.39	2.07	ppb
Manganese	55-2	2891.91	2778.86	2790.67	2820.48	2.20	ppb
Molybdenum	94-1	24.22	23.65	23.54	23.80	1.53	ppb
Molybdenum	95-1	1.22	1.21	1.23	1.22	0.84	ppb
Molybdenum	96-1	4.22	4.09	4.04	4.12	2.22	ppb
Molybdenum	97-1	1.21	1.19	1.15	1.19	2.48	ppb
Molybdenum	98-1	1.19	1.16	1.13	1.16	2.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	423.07	409.31	416.03	416.14	1.65	ppb
Phosphorus	31-2	2347.01	2282.23	2265.35	2298.20	1.88	ppb
Potassium	39-2	10573.00	10388.82	10493.86	10485.23	0.88	ppb
Rhodium	103-1				113		%
Rhodium	103-2				115		%
Scandium	45-1				115		%
Scandium	45-2				126		%
Selenium	82-1	44.44	42.48	42.46	43.13	2.63	ppb
Selenium	77-2	61.71	56.10	61.99	59.93	5.54	ppb
Selenium	78-2	45.14	45.73	43.61	44.83	2.44	ppb
Silicon	28-1	4974.30	4874.70	4722.99	4857.33	2.61	ppb
Silver	107-1	29.23	29.02	28.48	28.91	1.35	ppb
Silver	109-1	29.29	29.09	28.43	28.94	1.55	ppb
Sodium	23-2	246.40	242.94	246.25	245.20	0.80	ppb
Strontium	86-1	95.81	93.55	92.59	93.98	1.76	ppb
Strontium	88-1	99.33	96.50	96.47	97.44	1.68	ppb
Sulfur	34-1	-874.79	-988.53	-1005.77	-956.36		ppb
Terbium	159-1				115		%
Terbium	159-2				111		%
Thallium	203-1	34.55	34.46	33.82	34.28	1.16	ppb
Thallium	205-1	35.18	34.38	33.59	34.38	2.31	ppb
Tin	118-1	2.92	2.88	2.82	2.87	1.70	ppb
Titanium	47-1	1004.94	1003.10	1020.03	1009.35	0.92	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.41	1.39	1.35	1.38	2.28	ppb
Vanadium	51-2	483.99	478.63	486.45	483.02	0.83	ppb
Yttrium	89-1				127		%
Yttrium	89-2				127		%
Zinc	66-2	589.92	577.84	585.72	584.49	1.05	ppb
Zirconium	90-1	13.10	12.68	12.55	12.78	2.25	ppb
Zirconium	91-1	13.17	12.72	12.50	12.80	2.69	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	45465.15	46456.24	45579.71	45833.70	1.18	ppb
Antimony	121-1	305.95	292.37	289.92	296.08	2.92	ppb
Arsenic	75-2	209.16	205.55	208.39	207.70	0.92	ppb
Barium	135-1	6433.22	6209.36	6276.62	6306.40	1.82	ppb
Barium	137-1	6452.59	6243.65	6315.69	6337.31	1.67	ppb
Beryllium	9-1	151.88	150.86	147.96	150.23	1.35	ppb
Bismuth	209-1				107		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	134.32	131.89	128.95	131.72	2.04	ppb
Cadmium	106-1	132.47	128.46	130.11	130.35	1.55	ppb
Cadmium	111-1	150.36	146.85	145.68	147.63	1.65	ppb
Calcium	43-1	13085.58	12770.70	12710.41	12855.56	1.57	ppb
Calcium	44-1	13063.27	12635.38	12664.30	12787.65	1.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	622.63	639.94	621.79	628.12	1.63	ppb
Cobalt	59-2	1399.21	1422.60	1392.71	1404.84	1.12	ppb
Copper	63-2	825.64	831.01	820.64	825.76	0.63	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				116		%
Indium	115-2				111		%
Iron	56-2	97358.53	100404.74	99223.67	98995.65	1.55	ppb
Iron	57-2	97467.41	100305.75	96054.53	97942.56	2.21	ppb
Iron	54-2	99312.56	100327.66	98723.28	99454.50	0.82	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	122.53	120.47	116.27	119.76	2.67	ppb
Lead	207-1	121.46	116.07	113.91	117.14	3.32	ppb
Lead	208-1	121.93	117.70	114.70	118.11	3.07	ppb
Lithium	6-1				61		%
Magnesium	24-2	19655.55	20044.18	19518.60	19739.44	1.38	ppb
Manganese	55-2	3775.11	3832.78	3765.33	3791.08	0.96	ppb
Molybdenum	94-1	23.56	23.60	23.39	23.51	0.46	ppb
Molybdenum	95-1	1.20	1.23	1.21	1.21	1.37	ppb
Molybdenum	96-1	4.08	4.18	4.09	4.11	1.27	ppb
Molybdenum	97-1	1.17	1.20	1.15	1.18	2.40	ppb
Molybdenum	98-1	1.20	1.18	1.19	1.19	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1446.33	1472.74	1457.36	1458.81	0.91	ppb
Phosphorus	31-2	2258.85	2296.10	2233.08	2262.68	1.40	ppb
Potassium	39-2	10443.77	10450.91	10289.16	10394.62	0.88	ppb
Rhodium	103-1				112		%
Rhodium	103-2				113		%
Scandium	45-1				111		%
Scandium	45-2				122		%
Selenium	82-1	300.99	301.23	298.70	300.31	0.46	ppb
Selenium	77-2	314.21	310.32	309.52	311.35	0.81	ppb
Selenium	78-2	290.85	290.13	294.85	291.94	0.87	ppb
Silicon	28-1	4971.93	4771.32	4714.95	4819.40	2.80	ppb
Silver	107-1	124.43	118.42	117.62	120.16	3.10	ppb
Silver	109-1	124.14	121.66	120.19	122.00	1.64	ppb
Sodium	23-2	240.97	242.96	241.07	241.67	0.46	ppb
Strontium	86-1	92.79	91.92	92.46	92.39	0.47	ppb
Strontium	88-1	97.33	94.59	95.67	95.86	1.44	ppb
Sulfur	34-1	-1017.18	-1124.33	-1196.66	-1112.72		ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	148.41	139.81	139.99	142.74	3.44	ppb
Thallium	205-1	152.12	139.99	139.84	143.98	4.90	ppb
Tin	118-1	2.94	2.82	2.78	2.84	2.92	ppb
Titanium	47-1	993.07	973.34	973.08	979.83	1.17	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.40	1.36	1.36	1.37	1.75	ppb
Vanadium	51-2	1479.63	1487.47	1471.13	1479.41	0.55	ppb
Yttrium	89-1				125		%
Yttrium	89-2				124		%
Zinc	66-2	1596.80	1634.06	1620.30	1617.05	1.17	ppb
Zirconium	90-1	12.61	12.59	12.48	12.56	0.58	ppb
Zirconium	91-1	12.64	12.70	12.61	12.65	0.37	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32549.41	32678.95	32699.07	32642.47	0.25	ppb
Antimony	121-1	1.94	1.97	1.93	1.95	1.15	ppb
Arsenic	75-2	128.65	129.11	128.36	128.71	0.29	ppb
Barium	135-1	514.57	509.38	500.81	508.25	1.37	ppb
Barium	137-1	514.58	508.31	498.20	507.03	1.63	ppb
Beryllium	9-1	1.39	1.51	1.45	1.45	4.45	ppb
Bismuth	209-1				108		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.69	1.74	1.87	1.77	5.43	ppb
Cadmium	106-1	2.40	1.98	0.82	1.73	47.40	ppb
Cadmium	111-1	1.14	1.10	1.02	1.09	5.57	ppb
Calcium	43-1	8479.87	8451.39	8413.28	8448.18	0.40	ppb
Calcium	44-1	8247.06	8343.89	8188.77	8259.91	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	67.63	65.94	66.13	66.57	1.39	ppb
Cobalt	59-2	49.73	48.47	48.40	48.87	1.53	ppb
Copper	63-2	145.52	142.67	142.38	143.53	1.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				115		%
Indium	115-2				111		%
Iron	56-2	91695.68	90353.21	90986.23	91011.71	0.74	ppb
Iron	57-2	90352.04	88138.89	88764.22	89085.05	1.28	ppb
Iron	54-2	91249.95	90766.32	90367.72	90794.66	0.49	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	39.60	39.14	39.79	39.51	0.86	ppb
Lead	207-1	38.11	37.35	38.56	38.00	1.60	ppb
Lead	208-1	38.22	38.00	38.43	38.22	0.57	ppb
Lithium	6-1				59		%
Magnesium	24-2	15615.25	15477.26	15453.97	15515.49	0.56	ppb
Manganese	55-2	2894.62	2839.32	2853.63	2862.52	1.00	ppb
Molybdenum	94-1	17.52	17.25	17.22	17.33	0.95	ppb
Molybdenum	95-1	1.04	1.03	1.02	1.03	1.00	ppb
Molybdenum	96-1	3.27	3.26	3.25	3.26	0.29	ppb
Molybdenum	97-1	1.03	1.03	1.01	1.02	1.36	ppb
Molybdenum	98-1	0.99	0.99	0.99	0.99	0.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	70.89	69.80	69.52	70.07	1.03	ppb
Phosphorus	31-2	1407.43	1400.82	1391.78	1400.01	0.56	ppb
Potassium	39-2	4735.13	4575.98	4647.62	4652.91	1.71	ppb
Rhodium	103-1				113		%
Rhodium	103-2				113		%
Scandium	45-1				107		%
Scandium	45-2				120		%
Selenium	82-1	-0.28	0.17	-0.16	-0.09		ppb
Selenium	77-2	12.47	12.48	12.73	12.56	1.19	ppb
Selenium	78-2	3.58	3.53	3.33	3.48	3.74	ppb
Silicon	28-1	4895.63	4778.75	4761.98	4812.12	1.51	ppb
Silver	107-1	0.42	0.41	0.39	0.41	3.40	ppb
Silver	109-1	0.41	0.40	0.39	0.40	3.43	ppb
Sodium	23-2	284.55	280.40	284.10	283.02	0.80	ppb
Strontium	86-1	58.78	57.90	57.82	58.17	0.92	ppb
Strontium	88-1	60.54	60.50	59.43	60.15	1.05	ppb
Sulfur	34-1	-1508.78	-1533.36	-1558.36	-1533.50		ppb
Terbium	159-1				115		%
Terbium	159-2				110		%
Thallium	203-1	0.42	0.42	0.41	0.41	1.19	ppb
Thallium	205-1	0.44	0.42	0.43	0.43	1.68	ppb
Tin	118-1	2.05	2.03	1.99	2.02	1.38	ppb
Titanium	47-1	1000.12	978.77	979.97	986.29	1.22	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.91	0.92	0.91	0.26	ppb
Vanadium	51-2	169.76	168.37	167.54	168.56	0.67	ppb
Yttrium	89-1				123		%
Yttrium	89-2				122		%
Zinc	66-2	226.32	224.14	224.84	225.10	0.49	ppb
Zirconium	90-1	9.25	9.21	9.12	9.19	0.73	ppb
Zirconium	91-1	9.26	9.39	9.16	9.27	1.20	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38543.29	37711.77	38641.10	38298.72	1.33	ppb
Antimony	121-1	1.91	1.87	1.86	1.88	1.13	ppb
Arsenic	75-2	132.47	132.49	132.05	132.34	0.19	ppb
Barium	135-1	499.95	476.86	470.83	482.55	3.19	ppb
Barium	137-1	500.52	480.12	475.96	485.53	2.71	ppb
Beryllium	9-1	1.94	1.80	1.95	1.90	4.47	ppb
Bismuth	209-1				108		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.10	2.06	1.77	1.98	9.29	ppb
Cadmium	106-1	2.50	1.63	1.12	1.75	39.97	ppb
Cadmium	111-1	1.36	1.24	1.22	1.27	6.13	ppb
Calcium	43-1	11596.83	11344.45	11256.03	11399.10	1.55	ppb
Calcium	44-1	11467.64	11021.62	11120.83	11203.36	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	84.50	82.84	85.45	84.26	1.57	ppb
Cobalt	59-2	58.74	57.64	59.01	58.46	1.24	ppb
Copper	63-2	160.28	159.47	159.17	159.64	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				108		%
Iron	56-2	107718.66	107256.88	108367.42	107780.98	0.52	ppb
Iron	57-2	107647.29	106112.90	107092.50	106950.90	0.73	ppb
Iron	54-2	109237.87	107257.22	108379.98	108291.69	0.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	47.64	47.55	46.75	47.31	1.04	ppb
Lead	207-1	45.20	45.12	44.64	44.99	0.68	ppb
Lead	208-1	46.07	46.16	45.90	46.04	0.28	ppb
Lithium	6-1				57		%
Magnesium	24-2	18685.96	18200.09	18823.37	18569.80	1.76	ppb
Manganese	55-2	3130.70	3098.10	3152.59	3127.13	0.88	ppb
Molybdenum	94-1	20.42	19.82	19.93	20.06	1.60	ppb
Molybdenum	95-1	1.09	1.08	1.15	1.11	3.09	ppb
Molybdenum	96-1	3.75	3.68	3.72	3.72	0.92	ppb
Molybdenum	97-1	1.14	1.06	1.14	1.11	4.35	ppb
Molybdenum	98-1	1.07	1.05	1.09	1.07	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	91.95	90.16	92.65	91.59	1.40	ppb
Phosphorus	31-2	1743.97	1751.71	1794.51	1763.40	1.54	ppb
Potassium	39-2	5874.36	5834.98	5935.10	5881.48	0.86	ppb
Rhodium	103-1				110		%
Rhodium	103-2				110		%
Scandium	45-1				105		%
Scandium	45-2				117		%
Selenium	82-1	0.05	0.17	-0.13	0.03	538.72	ppb
Selenium	77-2	14.75	14.12	14.75	14.54	2.50	ppb
Selenium	78-2	3.60	3.86	3.38	3.61	6.72	ppb
Silicon	28-1	5358.68	5248.77	5021.09	5209.51	3.31	ppb
Silver	107-1	0.33	0.32	0.31	0.32	1.90	ppb
Silver	109-1	0.34	0.32	0.31	0.32	3.90	ppb
Sodium	23-2	287.67	283.76	289.12	286.85	0.97	ppb
Strontium	86-1	71.19	69.26	70.04	70.16	1.38	ppb
Strontium	88-1	73.38	71.53	71.76	72.22	1.39	ppb
Sulfur	34-1	-1490.90	-1559.20	-1638.43	-1562.84		ppb
Terbium	159-1				116		%
Terbium	159-2				107		%
Thallium	203-1	0.48	0.48	0.47	0.48	1.04	ppb
Thallium	205-1	0.48	0.48	0.48	0.48	0.61	ppb
Tin	118-1	2.47	2.42	2.33	2.41	2.96	ppb
Titanium	47-1	1135.55	1107.27	1083.33	1108.72	2.36	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.11	1.11	1.12	1.11	0.68	ppb
Vanadium	51-2	195.74	194.56	196.63	195.64	0.53	ppb
Yttrium	89-1				122		%
Yttrium	89-2				121		%
Zinc	66-2	260.30	258.57	262.14	260.34	0.69	ppb
Zirconium	90-1	10.82	10.64	10.81	10.76	0.94	ppb
Zirconium	91-1	10.88	10.62	10.94	10.81	1.58	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	28639.54	28751.69	28950.91	28780.71	0.55	ppb
Antimony	121-1	2.09	2.01	2.06	2.05	1.87	ppb
Arsenic	75-2	100.33	100.16	99.10	99.86	0.67	ppb
Barium	135-1	425.30	405.27	413.96	414.84	2.42	ppb
Barium	137-1	424.21	410.66	405.85	413.57	2.30	ppb
Beryllium	9-1	1.34	1.25	1.44	1.34	6.93	ppb
Bismuth	209-1				110		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.44	2.43	2.20	2.36	5.68	ppb
Cadmium	106-1	2.28	1.36	1.55	1.73	28.23	ppb
Cadmium	111-1	1.62	1.51	1.58	1.57	3.65	ppb
Calcium	43-1	8694.08	8609.97	8447.84	8583.96	1.46	ppb
Calcium	44-1	8560.00	8544.29	8236.67	8446.99	2.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	71.54	71.81	72.80	72.05	0.92	ppb
Cobalt	59-2	45.00	44.86	45.11	44.99	0.28	ppb
Copper	63-2	235.56	230.84	236.93	234.44	1.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				114		%
Indium	115-2				108		%
Iron	56-2	78247.10	78197.33	79481.38	78641.94	0.92	ppb
Iron	57-2	77864.03	77746.56	79250.77	78287.12	1.07	ppb
Iron	54-2	77775.10	78816.80	78887.41	78493.10	0.79	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	69.59	68.84	69.49	69.31	0.59	ppb
Lead	207-1	69.18	67.13	67.59	67.97	1.58	ppb
Lead	208-1	69.03	67.81	67.29	68.04	1.31	ppb
Lithium	6-1				58		%
Magnesium	24-2	15251.53	15574.91	15496.22	15440.88	1.09	ppb
Manganese	55-2	2004.37	2006.76	2034.66	2015.26	0.84	ppb
Molybdenum	94-1	18.65	18.38	17.80	18.28	2.36	ppb
Molybdenum	95-1	1.18	1.13	1.11	1.14	3.30	ppb
Molybdenum	96-1	3.44	3.43	3.32	3.40	1.97	ppb
Molybdenum	97-1	1.14	1.15	1.05	1.12	4.81	ppb
Molybdenum	98-1	1.14	1.12	1.07	1.11	3.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	77.69	78.07	78.42	78.06	0.46	ppb
Phosphorus	31-2	1570.48	1570.00	1579.46	1573.32	0.34	ppb
Potassium	39-2	6748.78	6717.64	6824.71	6763.71	0.81	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				104		%
Scandium	45-2				115		%
Selenium	82-1	0.25	0.28	0.18	0.24	22.31	ppb
Selenium	77-2	12.53	13.71	14.98	13.74	8.90	ppb
Selenium	78-2	3.60	3.43	3.45	3.49	2.74	ppb
Silicon	28-1	4949.62	4915.42	4827.65	4897.57	1.28	ppb
Silver	107-1	0.45	0.43	0.43	0.44	2.78	ppb
Silver	109-1	0.44	0.43	0.44	0.44	1.74	ppb
Sodium	23-2	207.64	210.85	211.04	209.85	0.91	ppb
Strontium	86-1	57.99	56.79	55.73	56.84	1.99	ppb
Strontium	88-1	59.67	58.07	57.99	58.58	1.62	ppb
Sulfur	34-1	-1521.98	-1624.92	-1661.38	-1602.76		ppb
Terbium	159-1				116		%
Terbium	159-2				109		%
Thallium	203-1	0.43	0.41	0.40	0.41	2.95	ppb
Thallium	205-1	0.42	0.41	0.42	0.41	1.83	ppb
Tin	118-1	2.42	2.37	2.35	2.38	1.54	ppb
Titanium	47-1	922.02	927.93	918.27	922.74	0.53	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.09	1.06	1.07	1.07	1.38	ppb
Vanadium	51-2	142.35	141.95	146.64	143.65	1.81	ppb
Yttrium	89-1				121		%
Yttrium	89-2				118		%
Zinc	66-2	236.79	235.68	236.35	236.27	0.24	ppb
Zirconium	90-1	9.77	9.68	9.62	9.69	0.82	ppb
Zirconium	91-1	9.91	9.72	9.45	9.69	2.41	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38686.79	39003.15	38981.71	38890.55	0.45	ppb
Antimony	121-1	0.93	0.93	0.99	0.95	3.49	ppb
Arsenic	75-2	68.06	68.92	68.33	68.44	0.65	ppb
Barium	135-1	430.83	421.19	429.44	427.15	1.22	ppb
Barium	137-1	424.24	418.09	425.87	422.73	0.97	ppb
Beryllium	9-1	1.58	1.66	1.75	1.66	5.20	ppb
Bismuth	209-1				110		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.74	1.60	1.62	1.65	4.44	ppb
Cadmium	106-1	1.33	0.75	1.02	1.03	28.01	ppb
Cadmium	111-1	0.89	0.86	0.87	0.87	1.76	ppb
Calcium	43-1	13131.96	13048.82	13183.74	13121.51	0.52	ppb
Calcium	44-1	13136.54	13107.46	12727.90	12990.63	1.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	86.70	87.46	85.70	86.62	1.02	ppb
Cobalt	59-2	46.97	46.80	46.49	46.76	0.52	ppb
Copper	63-2	161.06	161.64	156.84	159.85	1.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				107		%
Iron	56-2	86824.55	86280.21	85914.28	86339.68	0.53	ppb
Iron	57-2	85335.99	85998.50	84369.10	85234.53	0.96	ppb
Iron	54-2	86814.11	86653.57	85536.31	86334.66	0.81	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	43.53	43.20	42.63	43.12	1.06	ppb
Lead	207-1	41.17	40.74	40.73	40.88	0.62	ppb
Lead	208-1	41.91	41.53	41.16	41.53	0.91	ppb
Lithium	6-1				59		%
Magnesium	24-2	17822.43	17940.63	17893.17	17885.41	0.33	ppb
Manganese	55-2	1999.68	2001.28	1979.02	1993.32	0.62	ppb
Molybdenum	94-1	18.83	18.87	18.97	18.89	0.38	ppb
Molybdenum	95-1	0.99	0.95	0.99	0.98	2.19	ppb
Molybdenum	96-1	3.32	3.35	3.36	3.35	0.60	ppb
Molybdenum	97-1	0.96	0.98	1.02	0.99	3.31	ppb
Molybdenum	98-1	0.95	0.94	0.93	0.94	1.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	81.02	79.73	79.05	79.93	1.25	ppb
Phosphorus	31-2	1855.94	1831.76	1834.63	1840.78	0.72	ppb
Potassium	39-2	6928.68	6989.44	6966.06	6961.39	0.44	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				105		%
Scandium	45-2				116		%
Selenium	82-1	-0.28	-0.09	-0.33	-0.23		ppb
Selenium	77-2	15.44	15.13	14.23	14.93	4.18	ppb
Selenium	78-2	3.60	3.35	3.69	3.55	5.02	ppb
Silicon	28-1	5098.38	4896.98	5135.28	5043.55	2.54	ppb
Silver	107-1	0.29	0.27	0.28	0.28	3.08	ppb
Silver	109-1	0.28	0.28	0.28	0.28	0.47	ppb
Sodium	23-2	277.83	277.34	276.03	277.07	0.34	ppb
Strontium	86-1	73.54	73.09	74.19	73.61	0.75	ppb
Strontium	88-1	77.06	74.86	76.46	76.13	1.50	ppb
Sulfur	34-1	-1690.89	-1714.17	-1690.44	-1698.50		ppb
Terbium	159-1				115		%
Terbium	159-2				108		%
Thallium	203-1	0.44	0.43	0.41	0.42	3.18	ppb
Thallium	205-1	0.43	0.43	0.42	0.43	0.97	ppb
Tin	118-1	2.62	2.56	2.63	2.61	1.47	ppb
Titanium	47-1	1026.53	1017.69	992.88	1012.37	1.72	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.26	1.24	1.22	1.24	1.61	ppb
Vanadium	51-2	162.51	165.56	162.17	163.41	1.14	ppb
Yttrium	89-1				122		%
Yttrium	89-2				119		%
Zinc	66-2	214.05	212.15	211.32	212.51	0.66	ppb
Zirconium	90-1	10.17	10.05	10.12	10.11	0.59	ppb
Zirconium	91-1	10.19	10.09	10.18	10.16	0.53	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	37776.15	37752.74	37498.39	37675.76	0.41	ppb
Antimony	121-1	4.89	4.98	4.55	4.81	4.66	ppb
Arsenic	75-2	218.38	219.32	215.38	217.70	0.95	ppb
Barium	135-1	611.69	627.91	573.17	604.26	4.65	ppb
Barium	137-1	608.96	635.87	574.97	606.60	5.03	ppb
Beryllium	9-1	2.42	2.49	2.12	2.35	8.33	ppb
Bismuth	209-1				93		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	5.39	5.38	5.11	5.29	3.04	ppb
Cadmium	106-1	5.89	5.52	3.95	5.12	20.14	ppb
Cadmium	111-1	4.24	4.34	3.99	4.19	4.37	ppb
Calcium	43-1	8104.29	8031.46	7656.69	7930.81	3.03	ppb
Calcium	44-1	8012.50	8086.65	7567.53	7888.89	3.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	123.54	125.15	118.68	122.46	2.75	ppb
Cobalt	59-2	61.55	61.86	60.81	61.41	0.88	ppb
Copper	63-2	485.38	489.01	479.84	484.74	0.95	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				95		%
Holmium	165-2				108		%
Indium	115-1				94		%
Indium	115-2				106		%
Iron	56-2	140585.93	143212.97	137122.41	140307.11	2.18	ppb
Iron	57-2	138213.91	139162.23	134988.63	137454.92	1.59	ppb
Iron	54-2	138559.28	141459.56	134630.08	138216.31	2.48	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	206.90	211.65	186.56	201.70	6.61	ppb
Lead	207-1	207.84	209.26	189.16	202.09	5.55	ppb
Lead	208-1	206.14	209.37	187.20	200.90	5.96	ppb
Lithium	6-1				50		%
Magnesium	24-2	18892.15	19014.37	18429.29	18778.60	1.64	ppb
Manganese	55-2	2713.18	2774.15	2648.18	2711.84	2.32	ppb
Molybdenum	94-1	32.21	33.44	30.34	32.00	4.88	ppb
Molybdenum	95-1	2.20	2.18	2.03	2.14	4.31	ppb
Molybdenum	96-1	6.25	6.57	6.00	6.27	4.53	ppb
Molybdenum	97-1	2.16	2.27	2.01	2.15	6.02	ppb
Molybdenum	98-1	2.13	2.22	2.03	2.13	4.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	109.21	109.83	106.27	108.43	1.75	ppb
Phosphorus	31-2	1923.77	1939.18	1898.89	1920.61	1.06	ppb
Potassium	39-2	7928.24	8103.87	7943.27	7991.79	1.22	ppb
Rhodium	103-1				91		%
Rhodium	103-2				108		%
Scandium	45-1				89		%
Scandium	45-2				114		%
Selenium	82-1	1.00	1.19	0.84	1.01	17.69	ppb
Selenium	77-2	17.92	17.04	17.30	17.42	2.59	ppb
Selenium	78-2	3.93	4.53	4.62	4.36	8.65	ppb
Silicon	28-1	5349.30	5336.84	5150.99	5279.04	2.10	ppb
Silver	107-1	1.30	1.37	1.22	1.29	5.72	ppb
Silver	109-1	1.29	1.30	1.21	1.27	4.14	ppb
Sodium	23-2	152.51	155.01	149.34	152.29	1.87	ppb
Strontium	86-1	70.05	71.71	65.68	69.15	4.51	ppb
Strontium	88-1	73.45	74.10	66.86	71.47	5.61	ppb
Sulfur	34-1	-1244.35	-1217.64	-1310.68	-1257.56		ppb
Terbium	159-1				97		%
Terbium	159-2				108		%
Thallium	203-1	0.78	0.81	0.73	0.77	5.47	ppb
Thallium	205-1	0.78	0.79	0.70	0.76	6.53	ppb
Tin	118-1	4.01	4.07	3.74	3.94	4.52	ppb
Titanium	47-1	1511.57	1526.43	1433.16	1490.39	3.36	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.70	1.71	1.53	1.65	6.17	ppb
Vanadium	51-2	280.65	284.96	272.34	279.32	2.30	ppb
Yttrium	89-1				102		%
Yttrium	89-2				116		%
Zinc	66-2	377.24	382.14	376.05	378.48	0.85	ppb
Zirconium	90-1	16.76	17.45	16.07	16.76	4.11	ppb
Zirconium	91-1	17.08	17.70	16.28	17.02	4.18	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	57239.77	56940.64	57551.25	57243.89	0.53	ppb
Antimony	121-1	1.55	1.57	1.52	1.55	1.61	ppb
Arsenic	75-2	127.13	128.51	124.88	126.84	1.44	ppb
Barium	135-1	587.72	568.08	565.37	573.72	2.13	ppb
Barium	137-1	586.48	563.94	566.26	572.23	2.17	ppb
Beryllium	9-1	1.97	1.94	2.22	2.05	7.49	ppb
Bismuth	209-1				109		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.93	2.77	2.57	2.76	6.67	ppb
Cadmium	106-1	3.16	2.01	1.95	2.37	28.74	ppb
Cadmium	111-1	1.42	1.33	1.31	1.36	3.99	ppb
Calcium	43-1	23234.00	22563.19	23014.38	22937.19	1.49	ppb
Calcium	44-1	23118.24	22663.89	22838.87	22873.67	1.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	153.74	156.65	155.93	155.44	0.97	ppb
Cobalt	59-2	74.36	75.75	75.42	75.18	0.97	ppb
Copper	63-2	249.48	250.31	249.84	249.87	0.17	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				109		%
Indium	115-1				112		%
Indium	115-2				106		%
Iron	56-2	141566.96	144169.66	143360.31	143032.31	0.93	ppb
Iron	57-2	139033.14	142605.45	142188.78	141275.79	1.38	ppb
Iron	54-2	140763.43	142942.23	141961.73	141889.13	0.77	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	61.31	59.19	59.88	60.13	1.79	ppb
Lead	207-1	58.33	58.01	56.86	57.74	1.34	ppb
Lead	208-1	59.17	58.61	57.20	58.33	1.74	ppb
Lithium	6-1				61		%
Magnesium	24-2	33243.73	33779.63	34046.87	33690.08	1.21	ppb
Manganese	55-2	3262.37	3345.11	3369.19	3325.56	1.68	ppb
Molybdenum	94-1	26.36	25.98	25.79	26.04	1.13	ppb
Molybdenum	95-1	1.39	1.36	1.35	1.37	1.62	ppb
Molybdenum	96-1	4.97	4.78	4.82	4.86	2.04	ppb
Molybdenum	97-1	1.38	1.32	1.37	1.36	2.24	ppb
Molybdenum	98-1	1.35	1.32	1.32	1.33	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	132.05	133.13	132.27	132.48	0.43	ppb
Phosphorus	31-2	1805.40	1822.97	1848.37	1825.58	1.18	ppb
Potassium	39-2	8993.80	9022.99	8969.28	8995.36	0.30	ppb
Rhodium	103-1				108		%
Rhodium	103-2				108		%
Scandium	45-1				109		%
Scandium	45-2				120		%
Selenium	82-1	0.11	0.18	0.09	0.12	39.12	ppb
Selenium	77-2	17.68	19.08	17.50	18.09	4.78	ppb
Selenium	78-2	4.39	4.07	4.51	4.32	5.24	ppb
Silicon	28-1	4556.03	4383.15	4343.46	4427.55	2.55	ppb
Silver	107-1	0.47	0.46	0.45	0.46	1.48	ppb
Silver	109-1	0.46	0.45	0.44	0.45	2.74	ppb
Sodium	23-2	164.27	167.25	169.75	167.09	1.64	ppb
Strontium	86-1	91.65	89.93	89.94	90.51	1.10	ppb
Strontium	88-1	94.29	92.78	91.72	92.93	1.39	ppb
Sulfur	34-1	-1442.29	-1508.86	-1503.24	-1484.80		ppb
Terbium	159-1				116		%
Terbium	159-2				108		%
Thallium	203-1	0.59	0.57	0.58	0.58	1.76	ppb
Thallium	205-1	0.60	0.58	0.58	0.59	2.59	ppb
Tin	118-1	2.66	2.59	2.52	2.59	2.63	ppb
Titanium	47-1	1069.39	1053.27	1065.62	1062.76	0.79	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.55	1.51	1.48	1.52	2.41	ppb
Vanadium	51-2	289.45	288.92	289.58	289.32	0.12	ppb
Yttrium	89-1				122		%
Yttrium	89-2				120		%
Zinc	66-2	289.51	293.89	293.22	292.21	0.81	ppb
Zirconium	90-1	13.97	13.87	13.62	13.82	1.30	ppb
Zirconium	91-1	13.96	13.72	14.01	13.90	1.13	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38477.16	38124.72	39239.83	38613.90	1.48	ppb
Antimony	121-1	1.20	1.15	1.13	1.16	2.96	ppb
Arsenic	75-2	97.40	96.45	95.86	96.57	0.80	ppb
Barium	135-1	584.37	550.05	546.76	560.39	3.72	ppb
Barium	137-1	570.29	554.66	543.15	556.03	2.45	ppb
Beryllium	9-1	1.92	1.96	1.80	1.89	4.63	ppb
Bismuth	209-1				111		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.44	1.23	1.23	1.30	9.12	ppb
Cadmium	106-1	1.32	0.02	0.37	0.57	117.67	ppb
Cadmium	111-1	0.83	0.73	0.75	0.77	6.89	ppb
Calcium	43-1	8569.01	8419.84	8377.92	8455.59	1.19	ppb
Calcium	44-1	8541.69	8329.58	8194.39	8355.22	2.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	91.83	91.51	92.75	92.03	0.70	ppb
Cobalt	59-2	54.13	53.54	54.24	53.97	0.70	ppb
Copper	63-2	130.66	130.92	133.23	131.60	1.07	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				106		%
Iron	56-2	90243.02	89755.45	89927.23	89975.23	0.27	ppb
Iron	57-2	88990.57	88260.09	89142.84	88797.83	0.53	ppb
Iron	54-2	91078.49	88795.10	90242.66	90038.75	1.28	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	41.20	39.60	39.63	40.14	2.28	ppb
Lead	207-1	38.89	37.69	37.29	37.96	2.19	ppb
Lead	208-1	39.88	38.24	38.21	38.78	2.46	ppb
Lithium	6-1				60		%
Magnesium	24-2	15996.51	15770.08	15967.68	15911.43	0.77	ppb
Manganese	55-2	2975.18	2938.71	2979.59	2964.49	0.76	ppb
Molybdenum	94-1	12.74	12.64	12.72	12.70	0.38	ppb
Molybdenum	95-1	1.03	1.01	1.05	1.03	1.84	ppb
Molybdenum	96-1	2.74	2.74	2.79	2.76	1.06	ppb
Molybdenum	97-1	1.02	1.02	1.01	1.01	0.64	ppb
Molybdenum	98-1	1.00	0.99	0.99	0.99	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	98.67	98.71	98.47	98.62	0.13	ppb
Phosphorus	31-2	1301.90	1294.23	1330.14	1308.76	1.44	ppb
Potassium	39-2	7907.09	7829.02	7904.74	7880.28	0.56	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				104		%
Scandium	45-2				113		%
Selenium	82-1	-0.05	0.16	-0.12	0.00		ppb
Selenium	77-2	16.67	16.30	19.59	17.52	10.30	ppb
Selenium	78-2	4.07	3.63	3.95	3.88	5.93	ppb
Silicon	28-1	4659.63	4465.74	4460.39	4528.59	2.51	ppb
Silver	107-1	0.19	0.18	0.19	0.19	3.59	ppb
Silver	109-1	0.20	0.19	0.18	0.19	6.42	ppb
Sodium	23-2	152.83	152.29	155.50	153.54	1.12	ppb
Strontium	86-1	67.06	66.40	66.57	66.67	0.51	ppb
Strontium	88-1	68.51	67.67	68.43	68.20	0.68	ppb
Sulfur	34-1	-1612.21	-1750.90	-1798.33	-1720.48		ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	0.60	0.57	0.59	0.59	2.46	ppb
Thallium	205-1	0.61	0.57	0.59	0.59	3.15	ppb
Tin	118-1	2.43	2.34	2.36	2.38	1.87	ppb
Titanium	47-1	1106.28	1086.99	1083.36	1092.21	1.13	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.47	1.43	1.41	1.44	2.00	ppb
Vanadium	51-2	165.61	167.82	168.65	167.36	0.94	ppb
Yttrium	89-1				121		%
Yttrium	89-2				117		%
Zinc	66-2	176.48	176.92	178.11	177.17	0.48	ppb
Zirconium	90-1	6.66	6.58	6.63	6.62	0.56	ppb
Zirconium	91-1	6.70	6.66	6.68	6.68	0.36	ppb

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	35189.87	34823.15	34929.25	34980.76	0.54	ppb
Antimony	121-1	2.05	1.98	1.91	1.98	3.54	ppb
Arsenic	75-2	111.87	112.87	113.23	112.66	0.63	ppb
Barium	135-1	467.17	446.23	430.43	447.94	4.11	ppb
Barium	137-1	453.89	445.62	435.63	445.05	2.05	ppb
Beryllium	9-1	1.83	1.97	1.76	1.85	5.77	ppb
Bismuth	209-1				111		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.38	2.47	2.38	2.41	2.23	ppb
Cadmium	106-1	2.22	1.86	1.38	1.82	23.26	ppb
Cadmium	111-1	1.79	1.67	1.63	1.70	4.80	ppb
Calcium	43-1	10221.68	10035.03	10065.33	10107.35	0.99	ppb
Calcium	44-1	10013.81	9991.57	9819.64	9941.67	1.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	92.56	93.13	93.06	92.92	0.33	ppb
Cobalt	59-2	47.57	47.67	47.08	47.44	0.66	ppb
Copper	63-2	266.42	270.16	260.75	265.78	1.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				113		%
Indium	115-2				106		%
Iron	56-2	98064.03	98342.82	97971.78	98126.21	0.20	ppb
Iron	57-2	96640.72	97399.70	96151.37	96730.60	0.65	ppb
Iron	54-2	98234.54	97204.05	97188.14	97542.24	0.61	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	74.60	73.93	73.45	74.00	0.78	ppb
Lead	207-1	72.93	72.71	72.72	72.79	0.17	ppb
Lead	208-1	73.75	72.58	73.14	73.16	0.80	ppb
Lithium	6-1				59		%
Magnesium	24-2	16979.13	16910.64	16769.32	16886.36	0.63	ppb
Manganese	55-2	2320.62	2293.87	2316.66	2310.38	0.62	ppb
Molybdenum	94-1	25.38	25.07	24.67	25.04	1.43	ppb
Molybdenum	95-1	1.23	1.23	1.24	1.23	0.56	ppb
Molybdenum	96-1	4.35	4.34	4.14	4.28	2.68	ppb
Molybdenum	97-1	1.24	1.22	1.20	1.22	1.30	ppb
Molybdenum	98-1	1.22	1.22	1.19	1.21	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.39	97.83	97.02	97.41	0.41	ppb
Phosphorus	31-2	1877.30	1890.84	1849.96	1872.70	1.11	ppb
Potassium	39-2	8794.95	8805.06	8746.53	8782.18	0.36	ppb
Rhodium	103-1				109		%
Rhodium	103-2				109		%
Scandium	45-1				104		%
Scandium	45-2				113		%
Selenium	82-1	0.45	0.23	-0.09	0.20	135.11	ppb
Selenium	77-2	15.98	16.46	20.01	17.48	12.58	ppb
Selenium	78-2	3.39	3.36	3.60	3.45	3.76	ppb
Silicon	28-1	5297.82	5180.73	5283.65	5254.07	1.22	ppb
Silver	107-1	0.54	0.53	0.50	0.52	3.99	ppb
Silver	109-1	0.53	0.52	0.51	0.52	1.64	ppb
Sodium	23-2	159.11	160.17	158.16	159.14	0.63	ppb
Strontium	86-1	55.49	54.56	53.65	54.57	1.69	ppb
Strontium	88-1	57.14	55.84	55.10	56.02	1.84	ppb
Sulfur	34-1	-1640.64	-1718.05	-1724.37	-1694.35		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	0.52	0.51	0.52	0.52	1.12	ppb
Thallium	205-1	0.54	0.53	0.53	0.53	1.59	ppb
Tin	118-1	2.59	2.54	2.43	2.52	3.18	ppb
Titanium	47-1	1109.46	1099.44	1089.11	1099.34	0.93	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.19	1.17	1.17	1.18	1.15	ppb
Vanadium	51-2	179.54	182.27	181.04	180.95	0.76	ppb
Yttrium	89-1				121		%
Yttrium	89-2				117		%
Zinc	66-2	254.85	258.56	253.19	255.54	1.08	ppb
Zirconium	90-1	13.48	13.28	13.23	13.33	0.98	ppb
Zirconium	91-1	13.66	13.45	13.24	13.45	1.58	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	24141.28	24475.52	23937.49	24184.76	1.12	ppb
Antimony	121-1	1.72	1.70	1.73	1.72	0.94	ppb
Arsenic	75-2	83.42	82.02	82.68	82.70	0.85	ppb
Barium	135-1	316.54	314.49	325.55	318.86	1.85	ppb
Barium	137-1	313.01	311.46	315.24	313.23	0.61	ppb
Beryllium	9-1	1.22	1.11	1.13	1.16	5.02	ppb
Bismuth	209-1				112		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.44	1.51	1.47	1.47	2.58	ppb
Cadmium	106-1	0.72	0.44	0.46	0.54	29.39	ppb
Cadmium	111-1	0.84	0.79	0.77	0.80	4.56	ppb
Calcium	43-1	7237.86	7164.77	7116.21	7172.95	0.85	ppb
Calcium	44-1	7005.33	7132.96	6971.95	7036.75	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	62.37	63.12	62.71	62.74	0.60	ppb
Cobalt	59-2	38.78	39.11	38.83	38.91	0.46	ppb
Copper	63-2	139.11	139.92	139.74	139.59	0.30	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				117		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				105		%
Iron	56-2	82265.55	82365.06	82990.72	82540.44	0.48	ppb
Iron	57-2	80809.89	82583.37	81642.89	81678.72	1.09	ppb
Iron	54-2	81751.24	82631.17	81659.18	82013.86	0.65	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	40.67	41.09	41.32	41.03	0.80	ppb
Lead	207-1	40.04	39.46	39.87	39.79	0.76	ppb
Lead	208-1	40.01	40.02	40.03	40.02	0.03	ppb
Lithium	6-1				61		%
Magnesium	24-2	12752.15	12876.69	12635.39	12754.74	0.95	ppb
Manganese	55-2	1754.05	1780.84	1786.66	1773.85	0.98	ppb
Molybdenum	94-1	16.74	16.72	17.09	16.85	1.25	ppb
Molybdenum	95-1	1.06	1.06	1.05	1.06	0.37	ppb
Molybdenum	96-1	3.09	3.20	3.27	3.19	2.79	ppb
Molybdenum	97-1	1.08	1.06	1.07	1.07	1.29	ppb
Molybdenum	98-1	1.00	1.04	1.04	1.03	2.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	67.70	68.42	67.89	68.00	0.55	ppb
Phosphorus	31-2	1496.61	1508.54	1498.10	1501.08	0.43	ppb
Potassium	39-2	4692.60	4823.02	4748.80	4754.81	1.38	ppb
Rhodium	103-1				111		%
Rhodium	103-2				108		%
Scandium	45-1				101		%
Scandium	45-2				108		%
Selenium	82-1	-0.06	0.14	0.07	0.05	188.75	ppb
Selenium	77-2	10.98	10.87	11.97	11.27	5.38	ppb
Selenium	78-2	3.06	2.53	2.65	2.75	10.06	ppb
Silicon	28-1	5062.12	4925.65	4936.35	4974.71	1.53	ppb
Silver	107-1	0.20	0.21	0.20	0.20	1.21	ppb
Silver	109-1	0.20	0.21	0.21	0.20	1.44	ppb
Sodium	23-2	206.95	209.54	206.64	207.71	0.76	ppb
Strontium	86-1	50.57	50.62	50.79	50.66	0.23	ppb
Strontium	88-1	52.48	51.86	52.15	52.17	0.59	ppb
Sulfur	34-1	-1726.36	-1776.07	-1819.93	-1774.12		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	0.31	0.31	0.32	0.31	1.17	ppb
Thallium	205-1	0.31	0.31	0.32	0.32	1.95	ppb
Tin	118-1	1.91	1.91	1.91	1.91	0.10	ppb
Titanium	47-1	880.65	864.90	879.06	874.87	0.99	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.87	0.86	0.87	0.87	0.66	ppb
Vanadium	51-2	180.77	179.63	180.31	180.24	0.32	ppb
Yttrium	89-1				119		%
Yttrium	89-2				114		%
Zinc	66-2	181.16	182.42	181.47	181.68	0.36	ppb
Zirconium	90-1	8.84	8.86	8.98	8.89	0.84	ppb
Zirconium	91-1	8.89	9.02	9.08	9.00	1.04	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	35029.89	35221.28	34506.44	34919.20	1.06	ppb
Antimony	121-1	1.42	1.39	1.36	1.39	2.15	ppb
Arsenic	75-2	106.21	106.68	106.22	106.37	0.25	ppb
Barium	135-1	466.62	453.26	449.14	456.34	2.00	ppb
Barium	137-1	467.55	460.52	452.67	460.25	1.62	ppb
Beryllium	9-1	1.69	1.69	1.71	1.70	0.52	ppb
Bismuth	209-1				112		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.08	2.10	1.99	2.05	2.87	ppb
Cadmium	106-1	1.22	1.11	0.55	0.96	37.40	ppb
Cadmium	111-1	1.42	1.34	1.34	1.37	3.48	ppb
Calcium	43-1	7029.88	6928.35	6946.03	6968.09	0.78	ppb
Calcium	44-1	7006.77	6824.94	6897.86	6909.86	1.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	89.45	90.31	89.24	89.67	0.63	ppb
Cobalt	59-2	48.53	48.21	47.78	48.17	0.78	ppb
Copper	63-2	189.76	189.10	187.18	188.68	0.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				109		%
Indium	115-1				112		%
Indium	115-2				106		%
Iron	56-2	99747.10	98876.07	98424.14	99015.77	0.68	ppb
Iron	57-2	97872.19	99086.63	97449.87	98136.23	0.87	ppb
Iron	54-2	98616.98	97462.47	97524.46	97867.97	0.66	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	68.44	68.60	66.45	67.83	1.77	ppb
Lead	207-1	67.76	66.96	65.30	66.67	1.89	ppb
Lead	208-1	68.15	67.27	65.60	67.01	1.93	ppb
Lithium	6-1				60		%
Magnesium	24-2	17592.97	18097.53	17575.74	17755.41	1.67	ppb
Manganese	55-2	3050.32	3071.70	3060.06	3060.69	0.35	ppb
Molybdenum	94-1	20.42	19.87	19.57	19.95	2.17	ppb
Molybdenum	95-1	0.95	0.92	0.93	0.93	1.29	ppb
Molybdenum	96-1	3.56	3.53	3.49	3.52	0.99	ppb
Molybdenum	97-1	0.95	0.90	0.92	0.92	2.28	ppb
Molybdenum	98-1	0.91	0.91	0.88	0.90	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.16	96.84	95.27	96.42	1.05	ppb
Phosphorus	31-2	1706.06	1690.40	1686.55	1694.34	0.61	ppb
Potassium	39-2	8366.20	8360.18	8284.33	8336.90	0.55	ppb
Rhodium	103-1				109		%
Rhodium	103-2				108		%
Scandium	45-1				101		%
Scandium	45-2				110		%
Selenium	82-1	0.14	-0.07	-0.12	-0.02		ppb
Selenium	77-2	12.25	12.63	13.79	12.89	6.25	ppb
Selenium	78-2	2.50	3.77	3.27	3.18	20.17	ppb
Silicon	28-1	6022.13	5798.00	5937.34	5919.15	1.91	ppb
Silver	107-1	0.37	0.34	0.34	0.35	4.42	ppb
Silver	109-1	0.35	0.34	0.33	0.34	2.60	ppb
Sodium	23-2	116.38	117.46	115.82	116.55	0.72	ppb
Strontium	86-1	54.85	53.62	53.55	54.01	1.36	ppb
Strontium	88-1	57.02	55.59	55.01	55.87	1.85	ppb
Sulfur	34-1	-1652.82	-1713.56	-1710.29	-1692.22		ppb
Terbium	159-1				117		%
Terbium	159-2				109		%
Thallium	203-1	0.52	0.52	0.51	0.52	1.06	ppb
Thallium	205-1	0.54	0.51	0.51	0.52	3.05	ppb
Tin	118-1	2.29	2.26	2.17	2.24	2.83	ppb
Titanium	47-1	865.01	862.18	860.14	862.44	0.28	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.09	1.10	1.06	1.08	2.07	ppb
Vanadium	51-2	191.16	189.73	190.91	190.60	0.40	ppb
Yttrium	89-1				118		%
Yttrium	89-2				115		%
Zinc	66-2	247.72	247.45	246.85	247.34	0.18	ppb
Zirconium	90-1	10.82	10.62	10.65	10.70	0.97	ppb
Zirconium	91-1	10.98	10.80	10.75	10.84	1.12	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	34157.16	30627.55	29703.95	31496.22	7.46	ppb
Antimony	121-1	1.51	1.46	1.47	1.48	1.78	ppb
Arsenic	75-2	120.89	110.23	108.29	113.14	6.00	ppb
Barium	135-1	472.73	460.14	448.19	460.35	2.67	ppb
Barium	137-1	482.94	469.20	455.00	469.05	2.98	ppb
Beryllium	9-1	1.91	1.74	1.70	1.78	5.97	ppb
Bismuth	209-1				112		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.93	1.70	1.54	1.72	11.47	ppb
Cadmium	106-1	1.09	0.60	-0.16	0.51	123.03	ppb
Cadmium	111-1	0.84	0.76	0.69	0.76	10.20	ppb
Calcium	43-1	7573.99	7449.66	7388.78	7470.81	1.26	ppb
Calcium	44-1	7474.16	7331.52	7270.04	7358.57	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	89.28	79.91	78.83	82.67	6.95	ppb
Cobalt	59-2	51.92	46.61	46.12	48.22	6.67	ppb
Copper	63-2	140.46	125.07	121.16	128.89	7.92	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				116		%
Indium	115-1				113		%
Indium	115-2				113		%
Iron	56-2	98095.16	87821.91	86738.12	90885.06	6.90	ppb
Iron	57-2	96838.96	87246.44	85343.35	89809.58	6.86	ppb
Iron	54-2	98830.44	87307.39	86531.86	90889.90	7.58	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	46.87	45.73	45.43	46.01	1.65	ppb
Lead	207-1	45.18	43.24	43.72	44.04	2.30	ppb
Lead	208-1	45.53	44.47	44.15	44.72	1.62	ppb
Lithium	6-1				62		%
Magnesium	24-2	15902.41	14280.31	14037.62	14740.11	6.88	ppb
Manganese	55-2	2724.50	2423.45	2369.33	2505.76	7.64	ppb
Molybdenum	94-1	23.80	23.11	23.43	23.45	1.46	ppb
Molybdenum	95-1	0.96	0.92	0.93	0.94	2.57	ppb
Molybdenum	96-1	3.89	3.83	3.89	3.87	0.95	ppb
Molybdenum	97-1	0.95	0.89	0.93	0.92	3.10	ppb
Molybdenum	98-1	0.90	0.90	0.89	0.90	0.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.49	87.52	85.46	90.16	7.14	ppb
Phosphorus	31-2	1387.10	1255.72	1221.56	1288.13	6.78	ppb
Potassium	39-2	7532.51	6821.42	6594.57	6982.83	7.01	ppb
Rhodium	103-1				108		%
Rhodium	103-2				116		%
Scandium	45-1				102		%
Scandium	45-2				117		%
Selenium	82-1	0.18	-0.01	0.06	0.08	119.69	ppb
Selenium	77-2	14.44	12.65	13.68	13.59	6.61	ppb
Selenium	78-2	3.85	3.27	3.16	3.43	10.85	ppb
Silicon	28-1	5133.10	5064.60	5016.41	5071.37	1.16	ppb
Silver	107-1	0.20	0.19	0.18	0.19	4.04	ppb
Silver	109-1	0.18	0.18	0.18	0.18	1.72	ppb
Sodium	23-2	141.38	122.80	121.63	128.60	8.62	ppb
Strontium	86-1	68.86	66.61	67.69	67.72	1.66	ppb
Strontium	88-1	70.03	68.97	69.58	69.53	0.76	ppb
Sulfur	34-1	-1710.01	-1765.59	-1792.45	-1756.02		ppb
Terbium	159-1				117		%
Terbium	159-2				116		%
Thallium	203-1	0.54	0.53	0.52	0.53	1.81	ppb
Thallium	205-1	0.54	0.53	0.52	0.53	1.69	ppb
Tin	118-1	2.08	2.02	1.99	2.03	2.19	ppb
Titanium	47-1	941.41	922.36	926.55	930.11	1.08	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.32	1.26	1.25	1.27	2.97	ppb
Vanadium	51-2	180.74	164.50	162.49	169.24	5.91	ppb
Yttrium	89-1				118		%
Yttrium	89-2				123		%
Zinc	66-2	193.96	173.71	171.54	179.74	6.88	ppb
Zirconium	90-1	12.81	12.47	12.57	12.61	1.38	ppb
Zirconium	91-1	12.85	12.47	12.68	12.67	1.50	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	34959.17	35200.13	34836.76	34998.69	0.53	ppb
Antimony	121-1	1.36	1.29	1.25	1.30	4.46	ppb
Arsenic	75-2	92.37	91.65	92.18	92.07	0.41	ppb
Barium	135-1	485.39	448.79	449.07	461.08	4.57	ppb
Barium	137-1	479.74	456.21	447.69	461.21	3.60	ppb
Beryllium	9-1	1.29	1.32	1.21	1.27	4.46	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.29	1.21	1.25	1.25	3.15	ppb
Cadmium	106-1	-0.01	-0.15	-0.54	-0.23		ppb
Cadmium	111-1	0.29	0.28	0.22	0.26	14.75	ppb
Calcium	43-1	8269.82	7863.01	7822.66	7985.16	3.10	ppb
Calcium	44-1	8147.70	7602.36	7711.65	7820.57	3.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	71.20	70.91	71.13	71.08	0.21	ppb
Cobalt	59-2	42.70	42.35	42.42	42.49	0.44	ppb
Copper	63-2	109.33	108.00	109.26	108.86	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				110		%
Indium	115-1				112		%
Indium	115-2				104		%
Iron	56-2	81202.26	79648.27	80793.80	80548.11	1.00	ppb
Iron	57-2	79800.22	80278.91	80118.46	80065.86	0.30	ppb
Iron	54-2	81381.67	81172.83	80782.64	81112.38	0.37	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.12	23.26	23.59	23.65	1.85	ppb
Lead	207-1	22.54	21.59	21.71	21.95	2.36	ppb
Lead	208-1	23.14	22.17	22.41	22.57	2.24	ppb
Lithium	6-1				61		%
Magnesium	24-2	15077.85	15013.70	14978.57	15023.37	0.34	ppb
Manganese	55-2	1835.37	1838.42	1833.80	1835.86	0.13	ppb
Molybdenum	94-1	20.49	19.80	19.71	20.00	2.13	ppb
Molybdenum	95-1	1.02	1.01	1.02	1.02	0.52	ppb
Molybdenum	96-1	3.60	3.47	3.44	3.50	2.41	ppb
Molybdenum	97-1	1.10	1.02	1.03	1.05	4.28	ppb
Molybdenum	98-1	1.05	1.01	1.00	1.02	2.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	75.91	75.35	75.03	75.43	0.59	ppb
Phosphorus	31-2	1607.01	1592.85	1601.34	1600.40	0.45	ppb
Potassium	39-2	5552.51	5503.90	5560.76	5539.06	0.55	ppb
Rhodium	103-1				107		%
Rhodium	103-2				107		%
Scandium	45-1				101		%
Scandium	45-2				109		%
Selenium	82-1	0.19	0.10	-0.15	0.05	367.19	ppb
Selenium	77-2	13.77	14.53	14.31	14.20	2.74	ppb
Selenium	78-2	3.54	2.91	3.92	3.45	14.75	ppb
Silicon	28-1	6221.99	5863.24	5716.29	5933.84	4.38	ppb
Silver	107-1	0.10	0.10	0.09	0.10	5.16	ppb
Silver	109-1	0.10	0.10	0.10	0.10	4.57	ppb
Sodium	23-2	134.77	133.50	134.50	134.26	0.50	ppb
Strontium	86-1	68.75	65.51	65.32	66.53	2.90	ppb
Strontium	88-1	70.41	68.16	67.11	68.56	2.46	ppb
Sulfur	34-1	-1769.42	-1926.47	-1983.54	-1893.14		ppb
Terbium	159-1				115		%
Terbium	159-2				109		%
Thallium	203-1	0.36	0.33	0.33	0.34	5.28	ppb
Thallium	205-1	0.36	0.34	0.34	0.35	2.20	ppb
Tin	118-1	1.96	1.89	1.81	1.89	3.83	ppb
Titanium	47-1	856.57	833.40	821.05	837.01	2.15	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.19	1.12	1.14	1.15	3.20	ppb
Vanadium	51-2	142.78	139.06	143.68	141.84	1.73	ppb
Yttrium	89-1				116		%
Yttrium	89-2				114		%
Zinc	66-2	159.07	158.64	158.01	158.57	0.34	ppb
Zirconium	90-1	11.09	10.59	10.52	10.73	2.93	ppb
Zirconium	91-1	11.08	10.76	10.60	10.81	2.27	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4549.48	4537.18	4620.61	4569.09	0.99	ppb
Antimony	121-1	0.01	0.02	0.02	0.02	11.59	ppb
Arsenic	75-2	1.67	1.61	1.57	1.62	3.29	ppb
Barium	135-1	94.09	91.83	92.69	92.87	1.22	ppb
Barium	137-1	95.36	93.30	94.32	94.33	1.09	ppb
Beryllium	9-1	0.66	0.63	0.56	0.61	8.32	ppb
Bismuth	209-1				112		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.18	0.17	0.12	0.16	23.18	ppb
Cadmium	106-1	-2.28	-2.61	-2.43	-2.44		ppb
Cadmium	111-1	-0.15	-0.16	-0.14	-0.15		ppb
Calcium	43-1	6587.66	6593.77	6557.33	6579.59	0.30	ppb
Calcium	44-1	6451.59	6513.94	6472.88	6479.47	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.15	9.27	9.35	9.26	1.10	ppb
Cobalt	59-2	6.97	6.98	7.08	7.01	0.90	ppb
Copper	63-2	136.55	137.89	140.72	138.39	1.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				113		%
Holmium	165-2				107		%
Indium	115-1				113		%
Indium	115-2				106		%
Iron	56-2	6670.28	6710.26	6828.37	6736.30	1.22	ppb
Iron	57-2	6682.47	6731.03	6856.33	6756.61	1.33	ppb
Iron	54-2	6664.33	6665.93	6905.03	6745.10	2.05	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.70	6.65	6.62	6.66	0.54	ppb
Lead	207-1	6.20	6.11	6.11	6.14	0.85	ppb
Lead	208-1	6.43	6.39	6.33	6.38	0.77	ppb
Lithium	6-1				66		%
Magnesium	24-2	4663.39	4730.84	4798.56	4730.93	1.43	ppb
Manganese	55-2	296.38	299.07	310.33	301.93	2.45	ppb
Molybdenum	94-1	1.58	1.53	1.52	1.55	2.09	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	15.39	ppb
Molybdenum	96-1	0.23	0.22	0.22	0.22	2.38	ppb
Molybdenum	97-1	0.02	0.03	0.04	0.03	22.02	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	9.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.24	14.41	14.57	14.40	1.14	ppb
Phosphorus	31-2	406.24	417.36	410.53	411.38	1.36	ppb
Potassium	39-2	787.83	789.58	800.31	792.58	0.85	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				99		%
Scandium	45-2				105		%
Selenium	82-1	-0.50	-0.43	-0.73	-0.56		ppb
Selenium	77-2	4.74	4.86	5.36	4.99	6.57	ppb
Selenium	78-2	1.32	0.61	1.37	1.10	38.88	ppb
Silicon	28-1	2079.09	1991.98	2031.29	2034.12	2.14	ppb
Silver	107-1	0.09	0.09	0.09	0.09	1.91	ppb
Silver	109-1	0.09	0.09	0.08	0.09	4.17	ppb
Sodium	23-2	273.82	274.18	279.04	275.68	1.06	ppb
Strontium	86-1	21.99	21.55	21.61	21.72	1.09	ppb
Strontium	88-1	22.77	22.72	22.26	22.58	1.24	ppb
Sulfur	34-1	-1750.08	-1784.08	-1788.38	-1774.18		ppb
Terbium	159-1				114		%
Terbium	159-2				107		%
Thallium	203-1	0.07	0.07	0.07	0.07	4.28	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	2.97	ppb
Tin	118-1	0.49	0.48	0.47	0.48	1.94	ppb
Titanium	47-1	35.35	35.65	35.53	35.51	0.43	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.61	0.60	0.59	0.60	1.59	ppb
Vanadium	51-2	12.82	13.01	13.10	12.98	1.11	ppb
Yttrium	89-1				114		%
Yttrium	89-2				111		%
Zinc	66-2	28.74	28.42	29.09	28.75	1.17	ppb
Zirconium	90-1	0.85	0.84	0.84	0.85	1.00	ppb
Zirconium	91-1	0.86	0.84	0.85	0.85	1.12	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4993.63	4969.29	4976.83	4979.92	0.25	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	11.10	ppb
Arsenic	75-2	2.22	2.16	2.13	2.17	2.17	ppb
Barium	135-1	98.94	95.14	93.92	96.00	2.73	ppb
Barium	137-1	100.56	95.89	95.22	97.22	2.99	ppb
Beryllium	9-1	0.65	0.71	0.65	0.67	5.05	ppb
Bismuth	209-1				112		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.28	0.25	0.24	0.26	8.65	ppb
Cadmium	106-1	-1.56	-1.65	-1.78	-1.66		ppb
Cadmium	111-1	-0.10	-0.10	-0.10	-0.10		ppb
Calcium	43-1	9939.56	9257.02	9175.67	9457.41	4.44	ppb
Calcium	44-1	9706.75	9126.91	9037.49	9290.39	3.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.68	9.46	9.84	9.66	2.00	ppb
Cobalt	59-2	7.90	7.82	8.02	7.92	1.31	ppb
Copper	63-2	280.80	280.89	285.95	282.55	1.04	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				107		%
Iron	56-2	7916.01	7804.38	8058.20	7926.20	1.61	ppb
Iron	57-2	7855.16	7877.76	7959.76	7897.56	0.70	ppb
Iron	54-2	7953.72	7875.16	7993.81	7940.90	0.76	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.51	7.22	7.15	7.29	2.64	ppb
Lead	207-1	7.05	6.62	6.60	6.75	3.75	ppb
Lead	208-1	7.24	6.87	6.78	6.96	3.53	ppb
Lithium	6-1				62		%
Magnesium	24-2	5219.01	5174.69	5213.96	5202.55	0.47	ppb
Manganese	55-2	376.68	368.86	389.72	378.42	2.78	ppb
Molybdenum	94-1	2.45	2.24	2.13	2.27	7.03	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	6.84	ppb
Molybdenum	96-1	0.34	0.31	0.31	0.32	5.19	ppb
Molybdenum	97-1	0.04	0.03	0.04	0.04	15.13	ppb
Molybdenum	98-1	0.03	0.04	0.04	0.04	2.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.14	15.90	16.29	16.11	1.22	ppb
Phosphorus	31-2	423.51	443.56	444.36	437.14	2.70	ppb
Potassium	39-2	869.10	837.99	857.61	854.90	1.84	ppb
Rhodium	103-1				109		%
Rhodium	103-2				110		%
Scandium	45-1				98		%
Scandium	45-2				106		%
Selenium	82-1	-0.46	-0.66	-0.67	-0.60		ppb
Selenium	77-2	7.31	6.08	5.74	6.38	12.92	ppb
Selenium	78-2	1.18	1.67	1.16	1.33	21.74	ppb
Silicon	28-1	1811.65	1691.36	1650.21	1717.74	4.88	ppb
Silver	107-1	0.17	0.16	0.16	0.17	1.42	ppb
Silver	109-1	0.17	0.15	0.16	0.16	5.79	ppb
Sodium	23-2	252.88	255.27	258.24	255.46	1.05	ppb
Strontium	86-1	25.02	23.09	22.87	23.66	4.99	ppb
Strontium	88-1	25.69	23.87	23.85	24.47	4.32	ppb
Sulfur	34-1	-1527.43	-1565.75	-1517.46	-1536.88		ppb
Terbium	159-1				115		%
Terbium	159-2				109		%
Thallium	203-1	0.08	0.08	0.08	0.08	4.36	ppb
Thallium	205-1	0.09	0.08	0.08	0.08	8.46	ppb
Tin	118-1	0.27	0.25	0.23	0.25	6.65	ppb
Titanium	47-1	43.97	41.31	41.36	42.21	3.61	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.88	0.87	0.90	3.63	ppb
Vanadium	51-2	15.20	15.24	15.34	15.26	0.47	ppb
Yttrium	89-1				114		%
Yttrium	89-2				112		%
Zinc	66-2	32.83	32.07	33.19	32.70	1.75	ppb
Zirconium	90-1	1.34	1.23	1.23	1.27	5.11	ppb
Zirconium	91-1	1.36	1.24	1.23	1.27	5.64	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3720.45	3837.11	3767.64	3775.06	1.55	ppb
Antimony	121-1	0.01	0.01	0.02	0.01	22.98	ppb
Arsenic	75-2	1.51	1.62	1.54	1.56	3.45	ppb
Barium	135-1	87.24	85.76	85.66	86.22	1.03	ppb
Barium	137-1	88.28	87.77	87.21	87.75	0.61	ppb
Beryllium	9-1	0.61	0.61	0.60	0.61	1.05	ppb
Bismuth	209-1				113		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.15	0.17	0.15	0.16	6.97	ppb
Cadmium	106-1	-1.57	-2.19	-1.69	-1.81		ppb
Cadmium	111-1	-0.10	-0.14	-0.11	-0.12		ppb
Calcium	43-1	5837.93	5815.69	5838.13	5830.58	0.22	ppb
Calcium	44-1	5741.54	5678.66	5762.31	5727.51	0.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.83	7.91	7.76	7.83	0.95	ppb
Cobalt	59-2	5.82	5.92	5.72	5.82	1.72	ppb
Copper	63-2	202.04	202.74	201.33	202.04	0.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				108		%
Indium	115-1				114		%
Indium	115-2				106		%
Iron	56-2	5421.81	5409.53	5321.11	5384.15	1.02	ppb
Iron	57-2	5397.54	5514.17	5320.25	5410.65	1.80	ppb
Iron	54-2	5407.31	5481.18	5318.50	5402.33	1.51	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.36	6.25	6.35	6.32	0.96	ppb
Lead	207-1	5.98	5.77	5.94	5.90	1.95	ppb
Lead	208-1	6.13	6.01	6.14	6.09	1.22	ppb
Lithium	6-1				63		%
Magnesium	24-2	3848.56	3893.76	3845.31	3862.55	0.70	ppb
Manganese	55-2	248.68	245.89	243.16	245.91	1.12	ppb
Molybdenum	94-1	1.73	1.73	1.76	1.74	1.06	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	3.52	ppb
Molybdenum	96-1	0.24	0.23	0.22	0.23	4.49	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	7.09	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.03	17.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.40	11.80	11.35	11.52	2.17	ppb
Phosphorus	31-2	444.11	436.46	420.14	433.57	2.82	ppb
Potassium	39-2	722.62	728.67	713.40	721.56	1.07	ppb
Rhodium	103-1				111		%
Rhodium	103-2				110		%
Scandium	45-1				98		%
Scandium	45-2				104		%
Selenium	82-1	-0.41	-0.64	-0.26	-0.44		ppb
Selenium	77-2	5.63	6.26	6.88	6.26	10.01	ppb
Selenium	78-2	0.80	1.75	1.31	1.29	36.85	ppb
Silicon	28-1	1629.70	1642.19	1631.95	1634.62	0.41	ppb
Silver	107-1	0.13	0.13	0.13	0.13	0.68	ppb
Silver	109-1	0.13	0.14	0.14	0.14	1.61	ppb
Sodium	23-2	255.11	258.05	254.03	255.73	0.81	ppb
Strontium	86-1	21.66	21.78	21.60	21.68	0.42	ppb
Strontium	88-1	22.67	22.57	22.43	22.56	0.53	ppb
Sulfur	34-1	-1483.37	-1529.77	-1527.55	-1513.56		ppb
Terbium	159-1				116		%
Terbium	159-2				107		%
Thallium	203-1	0.06	0.06	0.06	0.06	3.96	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	1.66	ppb
Tin	118-1	0.18	0.17	0.17	0.18	2.81	ppb
Titanium	47-1	31.14	31.37	31.47	31.33	0.54	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.60	0.58	0.61	0.60	1.72	ppb
Vanadium	51-2	11.34	11.33	11.16	11.28	0.85	ppb
Yttrium	89-1				114		%
Yttrium	89-2				111		%
Zinc	66-2	24.32	24.20	23.81	24.11	1.10	ppb
Zirconium	90-1	0.96	0.98	0.94	0.96	1.81	ppb
Zirconium	91-1	0.97	0.97	0.96	0.97	0.35	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7022.39	7055.95	7101.81	7060.05	0.56	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.34	ppb
Arsenic	75-2	12.97	13.20	13.30	13.16	1.27	ppb
Barium	135-1	128.35	129.91	127.62	128.63	0.91	ppb
Barium	137-1	129.18	133.28	130.67	131.04	1.58	ppb
Beryllium	9-1	0.91	0.75	0.92	0.86	11.08	ppb
Bismuth	209-1				114		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.33	0.35	0.36	0.35	4.18	ppb
Cadmium	106-1	-1.27	-1.77	-1.66	-1.57		ppb
Cadmium	111-1	0.02	0.00	0.00	0.01	139.82	ppb
Calcium	43-1	13398.12	13256.66	13461.36	13372.05	0.78	ppb
Calcium	44-1	13111.99	13159.80	13478.75	13250.18	1.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	15.84	15.88	15.92	15.88	0.25	ppb
Cobalt	59-2	11.49	11.61	11.59	11.56	0.59	ppb
Copper	63-2	2900.67	2966.89	2879.45	2915.67	1.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				105		%
Iron	56-2	10960.70	11129.06	10947.74	11012.50	0.92	ppb
Iron	57-2	10934.79	11077.04	11017.39	11009.74	0.65	ppb
Iron	54-2	10909.45	11027.05	10855.15	10930.55	0.80	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	9.83	9.80	9.78	9.80	0.25	ppb
Lead	207-1	9.24	9.11	9.07	9.14	0.96	ppb
Lead	208-1	9.46	9.44	9.39	9.43	0.41	ppb
Lithium	6-1				63		%
Magnesium	24-2	7270.93	7378.03	7270.39	7306.45	0.85	ppb
Manganese	55-2	599.11	603.00	596.08	599.40	0.58	ppb
Molybdenum	94-1	2.57	2.57	2.55	2.56	0.43	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	3.68	ppb
Molybdenum	96-1	0.37	0.38	0.37	0.37	2.16	ppb
Molybdenum	97-1	0.04	0.05	0.05	0.04	14.17	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	2.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.11	23.41	22.77	23.10	1.38	ppb
Phosphorus	31-2	598.57	584.54	588.41	590.51	1.23	ppb
Potassium	39-2	1089.10	1124.20	1104.91	1106.07	1.59	ppb
Rhodium	103-1				111		%
Rhodium	103-2				109		%
Scandium	45-1				99		%
Scandium	45-2				105		%
Selenium	82-1	-0.31	-0.36	-0.35	-0.34		ppb
Selenium	77-2	7.83	9.11	8.72	8.55	7.72	ppb
Selenium	78-2	2.47	1.85	2.48	2.27	15.73	ppb
Silicon	28-1	2125.58	2113.91	2106.50	2115.33	0.45	ppb
Silver	107-1	0.86	0.84	0.83	0.84	1.57	ppb
Silver	109-1	0.82	0.82	0.84	0.83	1.40	ppb
Sodium	23-2	354.04	363.83	360.52	359.46	1.38	ppb
Strontium	86-1	33.07	32.76	33.12	32.98	0.58	ppb
Strontium	88-1	34.32	34.07	34.47	34.29	0.59	ppb
Sulfur	34-1	-1313.01	-1261.43	-1212.19	-1262.21		ppb
Terbium	159-1				117		%
Terbium	159-2				108		%
Thallium	203-1	0.09	0.10	0.10	0.10	3.62	ppb
Thallium	205-1	0.10	0.10	0.09	0.10	3.05	ppb
Tin	118-1	0.28	0.26	0.27	0.27	2.82	ppb
Titanium	47-1	46.69	47.14	46.94	46.93	0.48	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.08	1.08	1.09	1.08	0.20	ppb
Vanadium	51-2	20.87	21.16	20.92	20.98	0.72	ppb
Yttrium	89-1				115		%
Yttrium	89-2				111		%
Zinc	66-2	46.03	46.70	45.70	46.15	1.11	ppb
Zirconium	90-1	1.42	1.40	1.42	1.41	0.76	ppb
Zirconium	91-1	1.42	1.43	1.39	1.42	1.51	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4772.01	4791.90	4858.07	4807.33	0.94	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	15.89	ppb
Arsenic	75-2	1.88	1.71	1.83	1.81	5.05	ppb
Barium	135-1	104.86	103.68	104.58	104.37	0.59	ppb
Barium	137-1	106.34	105.45	105.54	105.78	0.47	ppb
Beryllium	9-1	0.61	0.68	0.72	0.67	7.79	ppb
Bismuth	209-1				115		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.18	0.19	0.11	0.16	28.31	ppb
Cadmium	106-1	-1.37	-1.95	-2.13	-1.82		ppb
Cadmium	111-1	-0.06	-0.11	-0.12	-0.10		ppb
Calcium	43-1	7281.84	7406.60	7292.47	7326.97	0.94	ppb
Calcium	44-1	7187.80	7257.20	7164.15	7203.05	0.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.65	10.55	10.87	10.69	1.53	ppb
Cobalt	59-2	7.26	7.14	7.35	7.25	1.43	ppb
Copper	63-2	134.96	135.24	136.80	135.66	0.73	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				114		%
Indium	115-2				105		%
Iron	56-2	6893.05	6808.36	6920.21	6873.87	0.85	ppb
Iron	57-2	6774.56	6860.08	6933.10	6855.91	1.16	ppb
Iron	54-2	6801.64	6760.96	7019.87	6860.82	2.03	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.16	7.38	7.49	7.34	2.31	ppb
Lead	207-1	6.70	6.67	6.94	6.77	2.19	ppb
Lead	208-1	6.90	7.00	7.12	7.00	1.60	ppb
Lithium	6-1				63		%
Magnesium	24-2	4755.07	4739.71	4813.82	4769.53	0.82	ppb
Manganese	55-2	309.48	305.78	312.60	309.29	1.10	ppb
Molybdenum	94-1	1.52	1.51	1.50	1.51	0.68	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.20	ppb
Molybdenum	96-1	0.23	0.24	0.23	0.23	3.02	ppb
Molybdenum	97-1	0.03	0.03	0.04	0.03	9.06	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	10.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.94	14.62	15.19	14.92	1.89	ppb
Phosphorus	31-2	477.84	467.80	484.89	476.84	1.80	ppb
Potassium	39-2	880.73	894.60	901.27	892.20	1.17	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				98		%
Scandium	45-2				102		%
Selenium	82-1	-0.33	-0.85	-0.58	-0.59		ppb
Selenium	77-2	7.13	7.68	7.46	7.42	3.68	ppb
Selenium	78-2	1.31	1.22	1.58	1.37	13.75	ppb
Silicon	28-1	2246.65	2186.45	2156.11	2196.40	2.10	ppb
Silver	107-1	0.07	0.06	0.06	0.07	7.17	ppb
Silver	109-1	0.06	0.06	0.06	0.06	3.26	ppb
Sodium	23-2	285.50	281.40	290.19	285.70	1.54	ppb
Strontium	86-1	26.72	27.14	26.31	26.72	1.55	ppb
Strontium	88-1	27.72	27.33	27.58	27.54	0.71	ppb
Sulfur	34-1	-1292.24	-1331.27	-1340.68	-1321.40		ppb
Terbium	159-1				117		%
Terbium	159-2				107		%
Thallium	203-1	0.07	0.06	0.06	0.06	3.69	ppb
Thallium	205-1	0.06	0.06	0.07	0.06	3.37	ppb
Tin	118-1	0.23	0.21	0.21	0.22	3.77	ppb
Titanium	47-1	34.89	35.16	34.91	34.98	0.43	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.69	0.71	0.73	0.71	2.79	ppb
Vanadium	51-2	15.17	14.98	15.58	15.24	2.00	ppb
Yttrium	89-1				114		%
Yttrium	89-2				109		%
Zinc	66-2	30.02	29.48	30.21	29.91	1.27	ppb
Zirconium	90-1	0.82	0.84	0.82	0.82	1.37	ppb
Zirconium	91-1	0.83	0.84	0.84	0.84	1.17	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4350.29	4518.17	4376.10	4414.85	2.05	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	1.65	ppb
Arsenic	75-2	1.79	1.77	1.85	1.80	2.10	ppb
Barium	135-1	107.31	105.84	105.86	106.34	0.79	ppb
Barium	137-1	108.73	107.87	108.41	108.34	0.40	ppb
Beryllium	9-1	0.69	0.68	0.68	0.69	0.80	ppb
Bismuth	209-1				113		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.08	0.08	0.12	0.09	26.69	ppb
Cadmium	106-1	-1.32	-1.78	-2.21	-1.77		ppb
Cadmium	111-1	-0.07	-0.11	-0.14	-0.10		ppb
Calcium	43-1	7225.90	7499.75	7331.22	7352.29	1.88	ppb
Calcium	44-1	7153.85	7543.02	7263.13	7320.00	2.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.73	8.88	8.68	8.76	1.23	ppb
Cobalt	59-2	6.87	6.90	6.79	6.86	0.84	ppb
Copper	63-2	142.47	147.41	140.33	143.40	2.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				113		%
Indium	115-2				105		%
Iron	56-2	6274.11	6315.34	6225.99	6271.81	0.71	ppb
Iron	57-2	6209.86	6318.51	6209.75	6246.04	1.00	ppb
Iron	54-2	6239.58	6308.39	6284.67	6277.55	0.56	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.67	7.92	7.76	7.78	1.60	ppb
Lead	207-1	7.27	7.36	7.23	7.28	0.94	ppb
Lead	208-1	7.40	7.59	7.49	7.50	1.25	ppb
Lithium	6-1				62		%
Magnesium	24-2	4527.95	4658.13	4549.52	4578.54	1.52	ppb
Manganese	55-2	316.67	315.67	308.81	313.72	1.36	ppb
Molybdenum	94-1	1.63	1.44	1.46	1.51	6.75	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	6.94	ppb
Molybdenum	96-1	0.20	0.22	0.22	0.21	4.00	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	4.49	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.02	15.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.50	13.78	13.23	13.50	2.06	ppb
Phosphorus	31-2	500.39	485.95	498.16	494.83	1.57	ppb
Potassium	39-2	837.86	853.86	837.36	843.03	1.11	ppb
Rhodium	103-1				111		%
Rhodium	103-2				108		%
Scandium	45-1				98		%
Scandium	45-2				103		%
Selenium	82-1	-0.75	-0.53	-0.77	-0.68		ppb
Selenium	77-2	7.69	8.13	6.42	7.41	11.96	ppb
Selenium	78-2	1.40	1.51	1.59	1.50	6.41	ppb
Silicon	28-1	2109.76	2176.55	2057.28	2114.53	2.83	ppb
Silver	107-1	0.12	0.12	0.12	0.12	3.45	ppb
Silver	109-1	0.13	0.12	0.12	0.12	3.35	ppb
Sodium	23-2	280.90	288.27	282.04	283.73	1.40	ppb
Strontium	86-1	25.77	26.33	26.78	26.29	1.93	ppb
Strontium	88-1	27.64	27.39	27.21	27.41	0.78	ppb
Sulfur	34-1	-1433.61	-1369.52	-1433.75	-1412.29		ppb
Terbium	159-1				117		%
Terbium	159-2				108		%
Thallium	203-1	0.06	0.07	0.06	0.06	4.75	ppb
Thallium	205-1	0.07	0.06	0.06	0.07	2.41	ppb
Tin	118-1	0.20	0.19	0.19	0.19	2.87	ppb
Titanium	47-1	26.24	26.85	26.43	26.51	1.18	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.82	0.84	0.84	0.83	1.42	ppb
Vanadium	51-2	12.76	13.06	12.87	12.90	1.20	ppb
Yttrium	89-1				115		%
Yttrium	89-2				109		%
Zinc	66-2	27.81	27.94	27.39	27.71	1.04	ppb
Zirconium	90-1	0.76	0.78	0.78	0.78	1.51	ppb
Zirconium	91-1	0.79	0.78	0.80	0.79	0.94	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5024.38	4995.52	4980.52	5000.14	0.45	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	3.58	ppb
Arsenic	75-2	2.04	1.96	2.00	2.00	2.07	ppb
Barium	135-1	112.39	112.39	111.84	112.21	0.28	ppb
Barium	137-1	113.23	113.81	114.18	113.74	0.42	ppb
Beryllium	9-1	0.76	0.78	0.78	0.77	1.61	ppb
Bismuth	209-1				113		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.21	0.17	0.17	0.18	12.59	ppb
Cadmium	106-1	-1.47	-2.16	-1.94	-1.85		ppb
Cadmium	111-1	-0.09	-0.14	-0.12	-0.12		ppb
Calcium	43-1	8083.09	8149.08	8183.39	8138.52	0.63	ppb
Calcium	44-1	8089.42	7978.03	8045.80	8037.75	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.38	10.44	10.21	10.34	1.13	ppb
Cobalt	59-2	7.77	7.95	7.75	7.82	1.41	ppb
Copper	63-2	198.60	198.86	195.94	197.80	0.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				114		%
Holmium	165-2				107		%
Indium	115-1				113		%
Indium	115-2				104		%
Iron	56-2	7240.33	7327.65	7154.34	7240.77	1.20	ppb
Iron	57-2	7227.42	7264.40	7222.10	7237.97	0.32	ppb
Iron	54-2	7277.05	7263.75	7155.08	7231.96	0.93	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.06	8.39	8.15	8.20	2.02	ppb
Lead	207-1	7.48	7.81	7.50	7.60	2.45	ppb
Lead	208-1	7.75	8.02	7.78	7.85	1.86	ppb
Lithium	6-1				61		%
Magnesium	24-2	5223.62	5293.11	5148.40	5221.71	1.39	ppb
Manganese	55-2	367.59	363.47	364.61	365.22	0.58	ppb
Molybdenum	94-1	1.88	1.86	1.78	1.84	2.85	ppb
Molybdenum	95-1	0.03	0.04	0.04	0.03	8.39	ppb
Molybdenum	96-1	0.27	0.26	0.28	0.27	2.51	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	6.00	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.03	16.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.01	16.04	15.89	15.98	0.51	ppb
Phosphorus	31-2	550.79	540.89	546.30	545.99	0.91	ppb
Potassium	39-2	901.45	905.95	886.11	897.84	1.16	ppb
Rhodium	103-1				110		%
Rhodium	103-2				107		%
Scandium	45-1				97		%
Scandium	45-2				100		%
Selenium	82-1	-0.34	-0.07	-0.64	-0.35		ppb
Selenium	77-2	7.90	6.91	6.94	7.25	7.81	ppb
Selenium	78-2	1.96	1.67	1.68	1.77	9.38	ppb
Silicon	28-1	2181.83	2069.31	2112.87	2121.33	2.67	ppb
Silver	107-1	0.10	0.10	0.10	0.10	0.32	ppb
Silver	109-1	0.10	0.09	0.10	0.10	3.90	ppb
Sodium	23-2	328.20	328.87	326.00	327.69	0.46	ppb
Strontium	86-1	27.82	28.32	27.98	28.04	0.91	ppb
Strontium	88-1	29.04	28.99	28.71	28.91	0.61	ppb
Sulfur	34-1	-1401.07	-1387.22	-1354.18	-1380.82		ppb
Terbium	159-1				116		%
Terbium	159-2				106		%
Thallium	203-1	0.07	0.07	0.06	0.07	8.41	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	2.57	ppb
Tin	118-1	0.20	0.20	0.21	0.20	2.37	ppb
Titanium	47-1	31.12	31.53	31.86	31.50	1.18	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.88	0.90	0.89	0.89	1.45	ppb
Vanadium	51-2	14.50	14.79	14.48	14.59	1.18	ppb
Yttrium	89-1				113		%
Yttrium	89-2				107		%
Zinc	66-2	32.80	33.61	32.81	33.07	1.40	ppb
Zirconium	90-1	1.01	1.04	1.01	1.02	1.60	ppb
Zirconium	91-1	1.04	1.03	1.02	1.03	0.89	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3571.30	3543.93	3653.92	3589.72	1.60	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.25	ppb
Arsenic	75-2	1.59	1.71	1.71	1.67	3.89	ppb
Barium	135-1	100.63	94.74	93.98	96.45	3.77	ppb
Barium	137-1	103.54	97.36	95.50	98.80	4.26	ppb
Beryllium	9-1	0.60	0.57	0.56	0.57	3.53	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.14	0.13	0.14	9.51	ppb
Cadmium	106-1	-1.26	-1.62	-1.88	-1.59		ppb
Cadmium	111-1	-0.07	-0.09	-0.11	-0.09		ppb
Calcium	43-1	7906.99	7568.27	7366.42	7613.90	3.59	ppb
Calcium	44-1	8001.69	7363.24	7284.72	7549.88	5.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.18	6.83	7.33	7.11	3.61	ppb
Cobalt	59-2	5.52	5.26	5.56	5.45	2.99	ppb
Copper	63-2	91.10	89.53	94.31	91.65	2.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				108		%
Indium	115-1				109		%
Indium	115-2				105		%
Iron	56-2	5001.91	4840.63	5096.72	4979.75	2.60	ppb
Iron	57-2	4987.23	4942.07	5178.89	5036.06	2.50	ppb
Iron	54-2	5035.87	4785.96	5155.16	4992.33	3.77	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.82	6.44	6.42	6.56	3.47	ppb
Lead	207-1	6.36	5.91	5.95	6.07	4.10	ppb
Lead	208-1	6.58	6.12	6.16	6.28	4.08	ppb
Lithium	6-1				60		%
Magnesium	24-2	3810.93	3765.15	3896.07	3824.05	1.74	ppb
Manganese	55-2	287.16	278.24	295.23	286.88	2.96	ppb
Molybdenum	94-1	1.59	1.48	1.43	1.50	5.40	ppb
Molybdenum	95-1	0.03	0.02	0.02	0.03	15.58	ppb
Molybdenum	96-1	0.21	0.20	0.20	0.20	2.53	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	11.50	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	9.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.64	10.36	11.00	10.66	3.04	ppb
Phosphorus	31-2	464.53	451.45	466.75	460.91	1.79	ppb
Potassium	39-2	697.59	679.42	725.72	700.91	3.33	ppb
Rhodium	103-1				106		%
Rhodium	103-2				108		%
Scandium	45-1				94		%
Scandium	45-2				101		%
Selenium	82-1	-0.71	-0.62	-0.35	-0.56		ppb
Selenium	77-2	7.06	6.98	6.31	6.78	6.09	ppb
Selenium	78-2	1.06	1.20	0.68	0.98	27.04	ppb
Silicon	28-1	1968.91	1836.82	1784.76	1863.50	5.09	ppb
Silver	107-1	0.06	0.05	0.05	0.05	5.10	ppb
Silver	109-1	0.05	0.05	0.05	0.05	6.24	ppb
Sodium	23-2	309.69	303.72	320.90	311.44	2.80	ppb
Strontium	86-1	25.41	24.00	23.48	24.30	4.12	ppb
Strontium	88-1	26.21	24.37	24.28	24.95	4.37	ppb
Sulfur	34-1	-1208.12	-1320.78	-1357.81	-1295.57		ppb
Terbium	159-1				112		%
Terbium	159-2				107		%
Thallium	203-1	0.06	0.05	0.04	0.05	17.37	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	8.37	ppb
Tin	118-1	0.17	0.14	0.15	0.15	8.30	ppb
Titanium	47-1	23.42	22.38	22.69	22.83	2.34	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.73	0.68	0.68	0.70	3.77	ppb
Vanadium	51-2	10.88	10.71	11.16	10.92	2.08	ppb
Yttrium	89-1				108		%
Yttrium	89-2				108		%
Zinc	66-2	21.55	20.43	21.76	21.25	3.36	ppb
Zirconium	90-1	0.85	0.81	0.78	0.81	3.84	ppb
Zirconium	91-1	0.86	0.82	0.81	0.83	3.40	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4813.33	4825.52	6717.78	5452.21	20.10	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	19.07	ppb
Arsenic	75-2	1.76	1.87	2.39	2.01	16.67	ppb
Barium	135-1	122.77	121.05	122.93	122.25	0.85	ppb
Barium	137-1	124.07	124.81	126.62	125.17	1.05	ppb
Beryllium	9-1	0.79	0.70	0.71	0.73	6.90	ppb
Bismuth	209-1				114		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.10	0.15	0.22	0.16	37.55	ppb
Cadmium	106-1	-1.79	-2.01	-1.39	-1.73		ppb
Cadmium	111-1	-0.10	-0.12	-0.07	-0.10		ppb
Calcium	43-1	8010.97	8081.18	7898.61	7996.92	1.15	ppb
Calcium	44-1	7871.85	7862.34	7784.57	7839.59	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.40	9.57	13.48	10.81	21.32	ppb
Cobalt	59-2	7.18	7.30	10.27	8.25	21.20	ppb
Copper	63-2	123.67	124.69	171.93	140.10	19.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				103		%
Indium	115-1				113		%
Indium	115-2				100		%
Iron	56-2	6771.95	6777.87	9487.58	7679.13	20.40	ppb
Iron	57-2	6800.25	6745.57	9509.93	7685.25	20.56	ppb
Iron	54-2	6898.28	6724.38	9489.20	7703.95	20.10	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.97	7.93	7.79	7.90	1.16	ppb
Lead	207-1	7.39	7.31	7.34	7.35	0.53	ppb
Lead	208-1	7.64	7.54	7.58	7.58	0.63	ppb
Lithium	6-1				61		%
Magnesium	24-2	4899.65	4899.98	6802.25	5533.96	19.85	ppb
Manganese	55-2	320.21	316.52	441.06	359.26	19.72	ppb
Molybdenum	94-1	1.72	1.74	1.76	1.74	1.16	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	4.49	ppb
Molybdenum	96-1	0.25	0.26	0.26	0.26	2.92	ppb
Molybdenum	97-1	0.03	0.03	0.04	0.03	15.23	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	8.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.61	14.75	20.51	16.63	20.26	ppb
Phosphorus	31-2	539.30	521.72	765.39	608.80	22.32	ppb
Potassium	39-2	831.74	855.84	1218.04	968.54	22.34	ppb
Rhodium	103-1				110		%
Rhodium	103-2				103		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	-0.54	-0.58	-0.21	-0.44		ppb
Selenium	77-2	7.09	8.73	10.57	8.80	19.77	ppb
Selenium	78-2	0.34	1.85	3.39	1.86	81.90	ppb
Silicon	28-1	2601.11	2609.61	2587.41	2599.38	0.43	ppb
Silver	107-1	0.12	0.12	0.11	0.12	0.15	ppb
Silver	109-1	0.12	0.12	0.12	0.12	1.71	ppb
Sodium	23-2	303.78	303.49	428.38	345.22	20.86	ppb
Strontium	86-1	28.25	28.05	28.64	28.32	1.06	ppb
Strontium	88-1	28.91	29.11	29.47	29.16	0.97	ppb
Sulfur	34-1	-1329.31	-1332.05	-1391.16	-1350.84		ppb
Terbium	159-1				117		%
Terbium	159-2				103		%
Thallium	203-1	0.07	0.06	0.06	0.06	8.65	ppb
Thallium	205-1	0.07	0.06	0.06	0.06	5.20	ppb
Tin	118-1	0.20	0.20	0.19	0.20	2.78	ppb
Titanium	47-1	30.21	30.29	30.45	30.32	0.39	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.87	0.87	0.86	0.87	0.93	ppb
Vanadium	51-2	13.26	13.30	18.65	15.07	20.55	ppb
Yttrium	89-1				113		%
Yttrium	89-2				104		%
Zinc	66-2	32.76	32.39	46.33	37.16	21.38	ppb
Zirconium	90-1	0.95	0.94	0.97	0.95	1.36	ppb
Zirconium	91-1	0.96	0.99	0.98	0.98	1.52	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4598.14	4656.28	4718.66	4657.69	1.29	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	12.26	ppb
Arsenic	75-2	1.95	1.73	1.91	1.87	6.26	ppb
Barium	135-1	105.26	108.48	106.70	106.82	1.51	ppb
Barium	137-1	107.02	109.09	108.81	108.30	1.04	ppb
Beryllium	9-1	0.65	0.63	0.62	0.63	2.87	ppb
Bismuth	209-1				114		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.15	0.12	0.14	15.94	ppb
Cadmium	106-1	-2.19	-2.37	-2.28	-2.28		ppb
Cadmium	111-1	-0.14	-0.16	-0.15	-0.15		ppb
Calcium	43-1	8060.32	8120.82	8090.41	8090.52	0.37	ppb
Calcium	44-1	7894.30	7957.63	8003.40	7951.77	0.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.77	8.76	9.02	8.85	1.66	ppb
Cobalt	59-2	7.06	7.12	7.30	7.16	1.70	ppb
Copper	63-2	147.32	150.85	153.30	150.49	2.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				107		%
Indium	115-1				113		%
Indium	115-2				104		%
Iron	56-2	6571.38	6573.32	6813.81	6652.84	2.10	ppb
Iron	57-2	6482.96	6735.89	6780.05	6666.30	2.40	ppb
Iron	54-2	6614.67	6561.29	6865.48	6680.48	2.43	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.48	7.45	7.62	7.52	1.19	ppb
Lead	207-1	6.91	6.97	7.09	6.99	1.36	ppb
Lead	208-1	7.14	7.21	7.34	7.23	1.42	ppb
Lithium	6-1				61		%
Magnesium	24-2	4841.14	4856.59	4920.12	4872.62	0.86	ppb
Manganese	55-2	360.36	356.33	371.68	362.79	2.19	ppb
Molybdenum	94-1	1.59	1.64	1.64	1.62	1.72	ppb
Molybdenum	95-1	0.03	0.03	0.04	0.04	19.69	ppb
Molybdenum	96-1	0.24	0.24	0.25	0.24	3.41	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	4.17	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	3.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.70	14.83	15.33	14.95	2.24	ppb
Phosphorus	31-2	492.74	493.84	483.38	489.99	1.17	ppb
Potassium	39-2	802.50	812.92	834.42	816.62	1.99	ppb
Rhodium	103-1				110		%
Rhodium	103-2				107		%
Scandium	45-1				96		%
Scandium	45-2				100		%
Selenium	82-1	-0.50	-0.66	-0.56	-0.58		ppb
Selenium	77-2	8.14	7.43	5.25	6.94	21.68	ppb
Selenium	78-2	1.11	0.95	1.19	1.08	11.09	ppb
Silicon	28-1	1945.85	1944.23	1935.67	1941.92	0.28	ppb
Silver	107-1	0.09	0.09	0.09	0.09	1.78	ppb
Silver	109-1	0.09	0.08	0.09	0.09	2.62	ppb
Sodium	23-2	310.98	308.58	316.45	312.01	1.29	ppb
Strontium	86-1	24.79	25.21	25.13	25.05	0.88	ppb
Strontium	88-1	26.69	25.83	26.07	26.20	1.70	ppb
Sulfur	34-1	-1491.16	-1428.63	-1440.97	-1453.59		ppb
Terbium	159-1				117		%
Terbium	159-2				106		%
Thallium	203-1	0.06	0.06	0.06	0.06	1.56	ppb
Thallium	205-1	0.06	0.05	0.06	0.06	3.50	ppb
Tin	118-1	0.17	0.18	0.16	0.17	5.73	ppb
Titanium	47-1	26.68	27.16	26.76	26.87	0.95	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.73	0.74	0.76	0.74	1.52	ppb
Vanadium	51-2	12.51	12.66	13.02	12.73	2.07	ppb
Yttrium	89-1				114		%
Yttrium	89-2				107		%
Zinc	66-2	27.51	28.30	28.59	28.13	1.99	ppb
Zirconium	90-1	0.88	0.91	0.90	0.89	1.53	ppb
Zirconium	91-1	0.90	0.91	0.89	0.90	1.15	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4304.81	4227.94	4111.60	4214.78	2.31	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.19	ppb
Arsenic	75-2	1.63	1.56	1.57	1.59	2.30	ppb
Barium	135-1	99.56	99.96	100.05	99.86	0.26	ppb
Barium	137-1	100.64	101.89	102.10	101.54	0.78	ppb
Beryllium	9-1	0.62	0.64	0.66	0.64	3.61	ppb
Bismuth	209-1				114		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.09	0.19	0.15	0.15	35.54	ppb
Cadmium	106-1	-1.64	-1.98	-1.78	-1.80		ppb
Cadmium	111-1	-0.10	-0.13	-0.12	-0.12		ppb
Calcium	43-1	5952.85	6100.45	5883.17	5978.82	1.86	ppb
Calcium	44-1	5928.67	6058.97	5931.98	5973.21	1.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.91	8.03	7.82	7.92	1.31	ppb
Cobalt	59-2	6.65	6.59	6.46	6.57	1.52	ppb
Copper	63-2	356.20	357.93	349.12	354.42	1.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				115		%
Holmium	165-2				106		%
Indium	115-1				111		%
Indium	115-2				103		%
Iron	56-2	6435.99	6324.39	6317.48	6359.29	1.05	ppb
Iron	57-2	6353.07	6279.05	6207.61	6279.91	1.16	ppb
Iron	54-2	6325.36	6402.41	6183.81	6303.86	1.76	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.36	6.45	6.42	6.41	0.68	ppb
Lead	207-1	5.88	6.01	5.95	5.95	1.13	ppb
Lead	208-1	6.12	6.21	6.18	6.17	0.73	ppb
Lithium	6-1				59		%
Magnesium	24-2	4516.62	4584.85	4406.24	4502.57	2.00	ppb
Manganese	55-2	252.47	254.95	249.88	252.43	1.00	ppb
Molybdenum	94-1	1.59	1.65	1.63	1.62	1.87	ppb
Molybdenum	95-1	0.02	0.03	0.03	0.03	22.53	ppb
Molybdenum	96-1	0.20	0.24	0.23	0.22	8.89	ppb
Molybdenum	97-1	0.02	0.03	0.03	0.03	12.99	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.02	13.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.03	13.09	12.91	13.01	0.71	ppb
Phosphorus	31-2	411.93	421.63	399.60	411.05	2.69	ppb
Potassium	39-2	789.63	789.95	769.51	783.03	1.50	ppb
Rhodium	103-1				109		%
Rhodium	103-2				106		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	-0.42	-0.51	-0.27	-0.40		ppb
Selenium	77-2	5.49	5.61	6.30	5.80	7.54	ppb
Selenium	78-2	1.27	1.06	1.26	1.20	9.58	ppb
Silicon	28-1	1750.24	1816.56	1714.09	1760.29	2.95	ppb
Silver	107-1	0.14	0.14	0.15	0.14	3.00	ppb
Silver	109-1	0.14	0.14	0.14	0.14	2.53	ppb
Sodium	23-2	264.91	267.70	261.11	264.57	1.25	ppb
Strontium	86-1	25.52	26.32	26.51	26.11	2.01	ppb
Strontium	88-1	26.15	27.20	26.86	26.74	2.00	ppb
Sulfur	34-1	-1471.33	-1421.41	-1478.08	-1456.94		ppb
Terbium	159-1				114		%
Terbium	159-2				106		%
Thallium	203-1	0.05	0.05	0.05	0.05	3.77	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	2.59	ppb
Tin	118-1	0.19	0.17	0.17	0.17	6.35	ppb
Titanium	47-1	27.93	28.55	28.14	28.21	1.12	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.65	0.68	0.67	0.67	1.81	ppb
Vanadium	51-2	12.32	12.40	12.12	12.28	1.15	ppb
Yttrium	89-1				112		%
Yttrium	89-2				106		%
Zinc	66-2	25.58	26.20	25.34	25.71	1.74	ppb
Zirconium	90-1	0.88	0.90	0.88	0.89	1.31	ppb
Zirconium	91-1	0.92	0.88	0.90	0.90	2.02	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4389.11	4544.08	4520.82	4484.67	1.86	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	29.08	ppb
Arsenic	75-2	1.64	1.60	1.65	1.63	1.68	ppb
Barium	135-1	105.42	105.96	106.48	105.95	0.50	ppb
Barium	137-1	107.71	107.04	106.94	107.23	0.39	ppb
Beryllium	9-1	0.68	0.70	0.67	0.68	2.00	ppb
Bismuth	209-1				117		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.17	0.14	0.16	11.53	ppb
Cadmium	106-1	-2.07	-2.41	-2.00	-2.16		ppb
Cadmium	111-1	-0.14	-0.16	-0.14	-0.14		ppb
Calcium	43-1	6538.07	6537.11	6693.07	6589.42	1.36	ppb
Calcium	44-1	6474.69	6437.22	6528.36	6480.09	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.73	8.93	8.92	8.86	1.25	ppb
Cobalt	59-2	7.02	7.11	7.00	7.05	0.85	ppb
Copper	63-2	333.51	343.79	340.65	339.32	1.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				114		%
Indium	115-2				105		%
Iron	56-2	6775.52	6828.84	6851.75	6818.70	0.57	ppb
Iron	57-2	6755.09	6983.35	6783.08	6840.51	1.82	ppb
Iron	54-2	6758.60	6875.93	6913.66	6849.40	1.18	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	6.72	6.81	6.74	6.76	0.70	ppb
Lead	207-1	6.20	6.20	6.24	6.21	0.42	ppb
Lead	208-1	6.46	6.47	6.50	6.48	0.29	ppb
Lithium	6-1				59		%
Magnesium	24-2	4761.90	4925.65	4862.07	4849.87	1.70	ppb
Manganese	55-2	279.40	282.33	284.44	282.06	0.90	ppb
Molybdenum	94-1	1.69	1.66	1.62	1.66	2.27	ppb
Molybdenum	95-1	0.02	0.02	0.03	0.02	6.83	ppb
Molybdenum	96-1	0.22	0.22	0.22	0.22	0.96	ppb
Molybdenum	97-1	0.02	0.02	0.03	0.03	19.34	ppb
Molybdenum	98-1	0.02	0.02	0.02	0.02	10.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.93	13.78	14.10	13.93	1.15	ppb
Phosphorus	31-2	439.96	462.39	460.57	454.31	2.74	ppb
Potassium	39-2	815.53	835.32	827.83	826.22	1.21	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				95		%
Scandium	45-2				99		%
Selenium	82-1	-0.34	-0.54	-0.45	-0.45		ppb
Selenium	77-2	8.13	4.95	7.61	6.90	24.69	ppb
Selenium	78-2	0.97	1.80	0.92	1.23	40.43	ppb
Silicon	28-1	1940.48	1910.47	1901.64	1917.53	1.06	ppb
Silver	107-1	0.15	0.15	0.15	0.15	0.91	ppb
Silver	109-1	0.15	0.15	0.15	0.15	1.91	ppb
Sodium	23-2	273.39	275.98	273.92	274.43	0.50	ppb
Strontium	86-1	26.96	26.55	26.61	26.70	0.83	ppb
Strontium	88-1	28.21	27.57	27.78	27.86	1.17	ppb
Sulfur	34-1	-1510.35	-1489.33	-1491.57	-1497.08		ppb
Terbium	159-1				116		%
Terbium	159-2				107		%
Thallium	203-1	0.05	0.05	0.06	0.05	8.46	ppb
Thallium	205-1	0.05	0.06	0.05	0.05	5.11	ppb
Tin	118-1	0.18	0.17	0.18	0.18	1.51	ppb
Titanium	47-1	30.87	30.36	30.78	30.67	0.88	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.71	0.73	0.72	0.72	1.39	ppb
Vanadium	51-2	13.08	13.22	13.35	13.22	1.01	ppb
Yttrium	89-1				115		%
Yttrium	89-2				108		%
Zinc	66-2	27.20	27.59	27.10	27.30	0.94	ppb
Zirconium	90-1	0.90	0.91	0.91	0.91	1.01	ppb
Zirconium	91-1	0.92	0.93	0.89	0.91	2.35	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	849.79	841.58	846.45	845.94	0.49	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	10.98	ppb
Arsenic	75-2	0.34	0.38	0.28	0.33	15.65	ppb
Barium	135-1	18.90	18.81	19.11	18.94	0.83	ppb
Barium	137-1	19.10	19.56	19.18	19.28	1.26	ppb
Beryllium	9-1	0.16	0.12	0.12	0.13	16.58	ppb
Bismuth	209-1				116		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.05	0.04	-0.01	0.03	127.63	ppb
Cadmium	106-1	-1.97	-1.99	-2.74	-2.23		ppb
Cadmium	111-1	-0.14	-0.14	-0.19	-0.16		ppb
Calcium	43-1	1151.21	1155.80	1174.44	1160.48	1.06	ppb
Calcium	44-1	1161.59	1148.47	1146.60	1152.22	0.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.66	1.63	1.59	1.63	1.98	ppb
Cobalt	59-2	1.26	1.26	1.29	1.27	1.44	ppb
Copper	63-2	68.27	67.23	67.91	67.81	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				108		%
Indium	115-1				115		%
Indium	115-2				106		%
Iron	56-2	1226.74	1207.94	1240.73	1225.14	1.34	ppb
Iron	57-2	1247.43	1223.80	1241.87	1237.70	1.00	ppb
Iron	54-2	1243.76	1227.50	1250.75	1240.67	0.96	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.25	1.28	1.29	1.27	1.45	ppb
Lead	207-1	1.20	1.16	1.18	1.18	1.74	ppb
Lead	208-1	1.23	1.22	1.23	1.23	0.80	ppb
Lithium	6-1				63		%
Magnesium	24-2	854.61	846.46	856.35	852.47	0.62	ppb
Manganese	55-2	49.90	49.65	49.81	49.79	0.25	ppb
Molybdenum	94-1	0.35	0.36	0.37	0.36	2.85	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	30.36	ppb
Molybdenum	96-1	0.06	0.05	0.06	0.06	6.38	ppb
Molybdenum	97-1	0.02	0.02	0.01	0.01	17.63	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	8.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.53	2.48	2.58	2.53	1.82	ppb
Phosphorus	31-2	63.96	66.61	64.22	64.93	2.25	ppb
Potassium	39-2	157.40	157.21	157.66	157.42	0.14	ppb
Rhodium	103-1				112		%
Rhodium	103-2				109		%
Scandium	45-1				98		%
Scandium	45-2				100		%
Selenium	82-1	-0.51	-0.30	-0.45	-0.42		ppb
Selenium	77-2	1.22	0.56	1.61	1.13	47.15	ppb
Selenium	78-2	0.10	1.04	0.71	0.62	77.33	ppb
Silicon	28-1	328.60	335.04	346.44	336.69	2.68	ppb
Silver	107-1	0.03	0.03	0.02	0.03	8.38	ppb
Silver	109-1	0.03	0.03	0.03	0.03	1.56	ppb
Sodium	23-2	67.42	66.23	65.97	66.54	1.16	ppb
Strontium	86-1	5.03	5.11	5.04	5.06	0.82	ppb
Strontium	88-1	5.20	5.14	5.12	5.16	0.84	ppb
Sulfur	34-1	-1579.70	-1588.75	-1558.33	-1575.60		ppb
Terbium	159-1				117		%
Terbium	159-2				108		%
Thallium	203-1	0.01	0.01	0.01	0.01	4.10	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	2.85	ppb
Tin	118-1	0.05	0.04	0.04	0.04	6.83	ppb
Titanium	47-1	5.42	5.52	5.51	5.48	1.04	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.12	0.13	0.13	0.13	2.43	ppb
Vanadium	51-2	2.42	2.42	2.39	2.41	0.86	ppb
Yttrium	89-1				113		%
Yttrium	89-2				108		%
Zinc	66-2	5.80	5.84	5.82	5.82	0.40	ppb
Zirconium	90-1	0.21	0.19	0.19	0.20	4.61	ppb
Zirconium	91-1	0.19	0.19	0.20	0.20	2.84	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4201.68	4251.86	4274.27	4242.60	0.88	ppb
Antimony	121-1	9.87	9.98	9.97	9.94	0.60	ppb
Arsenic	75-2	5.22	5.26	5.42	5.30	1.95	ppb
Barium	135-1	295.75	289.75	291.70	292.40	1.05	ppb
Barium	137-1	296.43	292.55	292.19	293.72	0.80	ppb
Beryllium	9-1	5.80	5.95	5.51	5.75	3.93	ppb
Bismuth	209-1				116		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	4.29	4.37	4.40	4.35	1.40	ppb
Cadmium	106-1	2.40	2.54	1.98	2.31	12.64	ppb
Cadmium	111-1	4.88	4.94	4.85	4.89	0.97	ppb
Calcium	43-1	6178.31	6114.91	6177.16	6156.79	0.59	ppb
Calcium	44-1	6075.18	6045.90	6121.95	6081.01	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	28.19	28.51	28.27	28.32	0.59	ppb
Cobalt	59-2	57.78	58.22	58.62	58.21	0.72	ppb
Copper	63-2	362.23	366.18	368.62	365.67	0.88	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				116		%
Holmium	165-2				109		%
Indium	115-1				113		%
Indium	115-2				105		%
Iron	56-2	6203.63	6222.54	6229.71	6218.62	0.22	ppb
Iron	57-2	6143.63	6142.64	6113.30	6133.19	0.28	ppb
Iron	54-2	6180.15	6306.13	6300.44	6262.24	1.14	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.40	8.59	8.45	8.48	1.16	ppb
Lead	207-1	7.88	8.09	7.96	7.98	1.38	ppb
Lead	208-1	8.15	8.32	8.17	8.21	1.16	ppb
Lithium	6-1				62		%
Magnesium	24-2	4339.52	4445.11	4369.18	4384.61	1.24	ppb
Manganese	55-2	302.30	308.41	302.42	304.38	1.15	ppb
Molybdenum	94-1	1.62	1.67	1.60	1.63	2.42	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	5.48	ppb
Molybdenum	96-1	0.24	0.24	0.25	0.24	1.79	ppb
Molybdenum	97-1	0.04	0.04	0.04	0.04	8.97	ppb
Molybdenum	98-1	0.04	0.04	0.05	0.04	13.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	64.74	65.37	66.32	65.48	1.21	ppb
Phosphorus	31-2	409.89	428.07	404.32	414.09	3.00	ppb
Potassium	39-2	741.76	756.61	760.32	752.89	1.30	ppb
Rhodium	103-1				110		%
Rhodium	103-2				108		%
Scandium	45-1				97		%
Scandium	45-2				102		%
Selenium	82-1	9.77	9.78	9.38	9.64	2.35	ppb
Selenium	77-2	15.78	16.62	18.69	17.03	8.81	ppb
Selenium	78-2	11.86	11.10	10.57	11.18	5.80	ppb
Silicon	28-1	1734.91	1706.18	1684.52	1708.54	1.48	ppb
Silver	107-1	5.07	5.06	5.07	5.07	0.18	ppb
Silver	109-1	5.04	5.11	5.11	5.08	0.81	ppb
Sodium	23-2	247.87	252.84	253.09	251.27	1.17	ppb
Strontium	86-1	26.13	26.04	25.55	25.91	1.20	ppb
Strontium	88-1	26.95	26.97	26.14	26.69	1.76	ppb
Sulfur	34-1	-1435.86	-1438.19	-1456.42	-1443.49		ppb
Terbium	159-1				118		%
Terbium	159-2				108		%
Thallium	203-1	4.93	5.00	4.94	4.96	0.84	ppb
Thallium	205-1	4.88	5.03	4.91	4.94	1.69	ppb
Tin	118-1	0.19	0.18	0.16	0.18	6.55	ppb
Titanium	47-1	28.05	27.69	28.37	28.04	1.22	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.67	0.69	0.67	0.68	1.43	ppb
Vanadium	51-2	61.01	61.34	61.40	61.25	0.34	ppb
Yttrium	89-1				114		%
Yttrium	89-2				108		%
Zinc	66-2	76.69	77.01	77.30	77.00	0.40	ppb
Zirconium	90-1	0.90	0.89	0.89	0.89	0.56	ppb
Zirconium	91-1	0.91	0.92	0.89	0.90	1.93	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4934.90	5008.47	4905.48	4949.62	1.07	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	12.68	ppb
Arsenic	75-2	1.76	1.75	1.66	1.72	3.34	ppb
Barium	135-1	95.84	97.58	97.04	96.82	0.92	ppb
Barium	137-1	97.28	98.61	99.61	98.50	1.19	ppb
Beryllium	9-1	0.67	0.74	0.63	0.68	8.29	ppb
Bismuth	209-1				117		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.29	0.21	0.16	0.22	29.56	ppb
Cadmium	106-1	-1.88	-1.89	-1.87	-1.88		ppb
Cadmium	111-1	-0.12	-0.12	-0.11	-0.11		ppb
Calcium	43-1	11621.16	11531.57	11618.75	11590.49	0.44	ppb
Calcium	44-1	11358.28	11381.25	11392.43	11377.32	0.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.58	10.67	10.71	10.65	0.60	ppb
Cobalt	59-2	7.83	7.90	7.76	7.83	0.88	ppb
Copper	63-2	115.10	114.42	114.21	114.57	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				118		%
Holmium	165-2				109		%
Indium	115-1				115		%
Indium	115-2				105		%
Iron	56-2	7625.55	7646.34	7571.95	7614.61	0.50	ppb
Iron	57-2	7595.77	7609.85	7496.15	7567.25	0.82	ppb
Iron	54-2	7574.89	7615.37	7546.54	7578.93	0.46	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.40	7.35	7.26	7.34	0.91	ppb
Lead	207-1	6.77	6.74	6.82	6.78	0.59	ppb
Lead	208-1	7.02	7.05	7.03	7.03	0.21	ppb
Lithium	6-1				63		%
Magnesium	24-2	5207.06	5235.87	5163.22	5202.05	0.70	ppb
Manganese	55-2	557.67	560.36	554.74	557.59	0.50	ppb
Molybdenum	94-1	2.24	2.21	2.20	2.22	0.99	ppb
Molybdenum	95-1	0.04	0.05	0.05	0.05	12.57	ppb
Molybdenum	96-1	0.31	0.31	0.31	0.31	0.63	ppb
Molybdenum	97-1	0.04	0.05	0.04	0.04	10.79	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	5.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.51	16.70	16.53	16.58	0.65	ppb
Phosphorus	31-2	452.77	449.34	463.69	455.27	1.65	ppb
Potassium	39-2	832.33	845.52	839.40	839.08	0.79	ppb
Rhodium	103-1				111		%
Rhodium	103-2				109		%
Scandium	45-1				97		%
Scandium	45-2				102		%
Selenium	82-1	-0.22	-0.36	-0.55	-0.38		ppb
Selenium	77-2	7.74	5.79	6.73	6.76	14.42	ppb
Selenium	78-2	1.65	1.83	1.10	1.53	24.97	ppb
Silicon	28-1	1678.23	1655.34	1659.04	1664.21	0.74	ppb
Silver	107-1	0.08	0.07	0.07	0.07	7.03	ppb
Silver	109-1	0.07	0.07	0.06	0.07	9.90	ppb
Sodium	23-2	277.13	282.89	281.05	280.35	1.05	ppb
Strontium	86-1	24.56	24.57	24.65	24.60	0.21	ppb
Strontium	88-1	24.92	25.70	25.43	25.35	1.56	ppb
Sulfur	34-1	-1318.39	-1238.10	-1172.84	-1243.11		ppb
Terbium	159-1				119		%
Terbium	159-2				108		%
Thallium	203-1	0.07	0.06	0.06	0.06	6.40	ppb
Thallium	205-1	0.07	0.06	0.07	0.07	4.30	ppb
Tin	118-1	0.21	0.22	0.22	0.22	3.81	ppb
Titanium	47-1	38.70	38.53	39.07	38.77	0.71	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.70	0.70	0.71	0.70	0.45	ppb
Vanadium	51-2	14.81	14.97	14.93	14.90	0.55	ppb
Yttrium	89-1				114		%
Yttrium	89-2				109		%
Zinc	66-2	36.14	36.40	36.15	36.23	0.41	ppb
Zirconium	90-1	1.22	1.24	1.20	1.22	1.55	ppb
Zirconium	91-1	1.21	1.23	1.18	1.21	2.10	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48415.32	47249.05	48262.28	47975.55	1.32	ppb
Antimony	121-1	494.52	489.03	504.89	496.15	1.62	ppb
Arsenic	75-2	511.64	516.59	508.63	512.28	0.78	ppb
Barium	135-1	2487.76	2469.83	2553.08	2503.56	1.75	ppb
Barium	137-1	2491.72	2490.15	2565.76	2515.88	1.72	ppb
Beryllium	9-1	488.95	502.46	491.65	494.36	1.45	ppb
Bismuth	209-1				101		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	505.61	511.13	517.23	511.32	1.14	ppb
Cadmium	106-1	508.23	511.73	521.45	513.80	1.33	ppb
Cadmium	111-1	520.81	515.75	538.39	524.98	2.26	ppb
Calcium	43-1	243363.58	242083.97	243238.57	242895.38	0.29	ppb
Calcium	44-1	243056.51	244068.24	244999.51	244041.42	0.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	499.87	499.38	503.65	500.97	0.47	ppb
Cobalt	59-2	538.09	536.18	550.84	541.70	1.47	ppb
Copper	63-2	5157.60	5131.23	5201.94	5163.59	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				104		%
Indium	115-1				104		%
Indium	115-2				100		%
Iron	56-2	128151.95	126011.52	128047.75	127403.74	0.95	ppb
Iron	57-2	127000.55	127690.97	129539.87	128077.13	1.03	ppb
Iron	54-2	126957.07	125938.71	128259.99	127051.93	0.92	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2529.90	2549.24	2563.38	2547.50	0.66	ppb
Lead	207-1	2514.64	2520.65	2519.36	2518.22	0.13	ppb
Lead	208-1	2518.17	2535.09	2534.86	2529.38	0.38	ppb
Lithium	6-1				67		%
Magnesium	24-2	252491.11	250666.32	253439.06	252198.83	0.56	ppb
Manganese	55-2	4969.69	4954.47	5044.92	4989.69	0.97	ppb
Molybdenum	94-1	5028.07	5113.62	5000.90	5047.53	1.17	ppb
Molybdenum	95-1	5058.75	5063.45	5005.18	5042.46	0.64	ppb
Molybdenum	96-1	5025.93	5092.80	5021.76	5046.83	0.79	ppb
Molybdenum	97-1	5011.18	5099.16	4949.76	5020.03	1.50	ppb
Molybdenum	98-1	5069.25	5102.87	4980.94	5051.02	1.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	530.10	534.92	538.30	534.44	0.77	ppb
Phosphorus	31-2	9599.34	9522.95	9667.44	9596.58	0.75	ppb
Potassium	39-2	123088.39	122177.57	123600.95	122955.64	0.59	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				104		%
Selenium	82-1	522.58	523.39	514.62	520.20	0.93	ppb
Selenium	77-2	501.23	509.59	509.01	506.61	0.92	ppb
Selenium	78-2	512.48	510.36	504.04	508.96	0.86	ppb
Silicon	28-1	469.55	475.21	475.14	473.30	0.69	ppb
Silver	107-1	512.33	512.40	525.50	516.74	1.47	ppb
Silver	109-1	513.17	509.46	518.80	513.81	0.92	ppb
Sodium	23-2	236950.24	236289.37	241211.89	238150.50	1.12	ppb
Strontium	86-1	512.17	514.40	504.70	510.42	1.00	ppb
Strontium	88-1	513.26	512.89	515.00	513.72	0.22	ppb
Sulfur	34-1	8072.43	8088.96	8071.19	8077.52	0.12	ppb
Terbium	159-1				110		%
Terbium	159-2				104		%
Thallium	203-1	506.64	505.35	510.06	507.35	0.48	ppb
Thallium	205-1	510.95	506.75	509.12	508.94	0.41	ppb
Tin	118-1	494.45	490.29	505.29	496.68	1.56	ppb
Titanium	47-1	4942.65	4959.12	5013.62	4971.80	0.75	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	508.99	510.90	508.40	509.43	0.26	ppb
Vanadium	51-2	506.76	506.07	517.67	510.16	1.28	ppb
Yttrium	89-1				107		%
Yttrium	89-2				107		%
Zinc	66-2	5271.44	5251.20	5257.78	5260.14	0.20	ppb
Zirconium	90-1	503.08	506.94	498.98	503.00	0.79	ppb
Zirconium	91-1	499.67	506.13	493.24	499.68	1.29	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.20	1.31	1.46	1.32	9.82	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	45.26	ppb
Arsenic	75-2	0.00	0.00	-0.01	0.00		ppb
Barium	135-1	0.01	0.01	0.01	0.01	16.80	ppb
Barium	137-1	0.01	0.01	0.02	0.01	53.86	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	52.01	ppb
Bismuth	209-1				112		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.00	-0.01	0.00	657.38	ppb
Cadmium	106-1	-0.40	-0.20	-0.66	-0.42		ppb
Cadmium	111-1	-0.02	-0.01	-0.04	-0.03		ppb
Calcium	43-1	-1.90	-0.27	0.17	-0.67		ppb
Calcium	44-1	0.00	1.91	2.48	1.46	88.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.07	0.05	0.06	16.97	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	15.47	ppb
Copper	63-2	0.05	0.05	0.05	0.05	9.12	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				109		%
Indium	115-1				116		%
Indium	115-2				112		%
Iron	56-2	1.37	1.41	1.41	1.40	1.58	ppb
Iron	57-2	0.80	1.13	1.18	1.04	19.92	ppb
Iron	54-2	0.64	0.73	0.74	0.70	8.18	ppb
Krypton	83-1						cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.04	0.05	0.04	0.04	11.48	ppb
Lead	207-1	0.04	0.03	0.03	0.03	23.04	ppb
Lead	208-1	0.04	0.04	0.03	0.04	12.13	ppb
Lithium	6-1				81		%
Magnesium	24-2	1.51	1.64	1.65	1.60	4.79	ppb
Manganese	55-2	2.58	2.61	2.53	2.57	1.46	ppb
Molybdenum	94-1	0.01	0.02	0.02	0.01	33.90	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.01	52.00	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	27.90	ppb
Molybdenum	97-1	0.01	0.01	0.02	0.01	9.23	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	31.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	0.05	0.05	0.05	8.35	ppb
Phosphorus	31-2	-20.95	-21.67	-19.86	-20.83		ppb
Potassium	39-2	2.24	2.29	2.91	2.48	15.02	ppb
Rhodium	103-1				115		%
Rhodium	103-2				112		%
Scandium	45-1				108		%
Scandium	45-2				112		%
Selenium	82-1	-0.66	-0.52	-0.45	-0.54		ppb
Selenium	77-2	0.11	0.04	0.04	0.07	58.30	ppb
Selenium	78-2	0.16	0.70	0.57	0.48	58.53	ppb
Silicon	28-1	-2.56	-2.48	-4.18	-3.07		ppb
Silver	107-1	0.00	0.00	0.00	0.00	15.38	ppb
Silver	109-1	0.00	0.00	0.00	0.00	20.61	ppb
Sodium	23-2	8.54	8.53	8.65	8.57	0.81	ppb
Strontium	86-1	0.00	0.00	0.01	0.00	356.49	ppb
Strontium	88-1	0.00	0.00	0.01	0.00	48.40	ppb
Sulfur	34-1	-837.78	-782.74	-798.39	-806.30		ppb
Terbium	159-1				114		%
Terbium	159-2				109		%
Thallium	203-1	0.04	0.04	0.03	0.04	2.82	ppb
Thallium	205-1	0.04	0.03	0.03	0.04	9.39	ppb
Tin	118-1	-0.01	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.00	0.01	0.00	0.00	231.85	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	62.78	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	6.99	ppb
Yttrium	89-1				115		%
Yttrium	89-2				113		%
Zinc	66-2	0.42	0.42	0.47	0.44	6.27	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	21996.24	ppb
Zirconium	91-1	0.00	0.01	0.00	0.00	80.31	ppb

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	243	227	213	228	6.60	cps
Antimony	121-1	57	70	50	59	17.29	cps
Arsenic	75-2	20	0	23	14	87.37	cps
Barium	135-1	103	90	70	88	19.11	cps
Barium	137-1	217	150	123	163	29.43	cps
Beryllium	9-1	17	28	11	19	45.83	cps
Bismuth	209-1	16449617	16351530	16379460	16393536	0.31	cps
Bismuth	209-2	12025486	12345116	12146507	12172370	1.33	cps
Bromine	81-1	12729	13113	12916	12919	1.49	cps
Bromine	81-2	223	190	150	188	19.55	cps
Cadmium	108-1	27	3	30	20	72.66	cps
Cadmium	106-1	8946	9006	8853	8935	0.87	cps
Cadmium	111-1	6264	6315	6179	6253	1.10	cps
Calcium	43-1	1123	650	697	823	31.68	cps
Calcium	44-1	46430	39576	40151	42052	9.04	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1497	1563	1520	1527	2.22	cps
Cobalt	59-2	207	167	143	172	18.60	cps
Copper	63-2	1780	1773	1730	1761	1.54	cps
Dysprosium	156-1	23	23	30	26	15.07	cps
Dysprosium	156-2	17	13	7	12	41.65	cps
Erbium	164-1	200	193	217	203	5.91	cps
Erbium	164-2	103	133	150	129	18.35	cps
Gadolinium	160-1	147	193	150	163	15.94	cps
Gadolinium	160-2	897	1097	1083	1026	10.90	cps
Holmium	165-1	27979528	27598190	27225757	27601158	1.37	cps
Holmium	165-2	18257798	18371699	18291482	18306993	0.32	cps
Indium	115-1	23872161	23938447	23625903	23812170	0.69	cps
Indium	115-2	8778496	8898824	8826889	8834736	0.69	cps
Iron	56-2	33564	34272	33618	33818	1.17	cps
Iron	57-2	2194	2124	2140	2152	1.70	cps
Iron	54-2	5028	4897	5214	5046	3.16	cps
Krypton	83-1	460	450	423	444	4.27	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	443	397	433	424	5.79	cps
Lead	207-1	410	370	430	403	7.57	cps
Lead	208-1	1777	1580	1703	1687	5.89	cps
Lithium	6-1	2365240	2413193	2389774	2389402	1.00	cps
Magnesium	24-2	2787	2827	2737	2784	1.62	cps
Manganese	55-2	530	510	693	578	17.41	cps
Molybdenum	94-1	480	470	450	467	3.27	cps
Molybdenum	95-1	117	113	87	106	15.58	cps
Molybdenum	96-1	250	200	197	216	13.86	cps
Molybdenum	97-1	107	63	43	71	45.53	cps
Molybdenum	98-1	127	133	147	136	7.51	cps
Neodymium	150-1	23	13	23	20	28.87	cps
Neodymium	150-2	13	3	7	8	65.47	cps
Nickel	60-2	153	147	153	151	2.55	cps
Phosphorus	31-2	500	450	480	477	5.28	cps
Potassium	39-2	90373	89820	89350	89847	0.57	cps
Rhodium	103-1	23351150	23048463	23391362	23263658	0.81	cps
Rhodium	103-2	14276121	14261927	14030456	14189501	0.97	cps
Scandium	45-1	12788812	12856738	12955648	12867066	0.65	cps
Scandium	45-2	1234303	1234190	1233431	1233975	0.04	cps
Selenium	82-1	1209	1233	1190	1211	1.76	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	573	543	587	568	3.91	cps
Silicon	28-1	1446928	1447802	1468853	1454528	0.85	cps
Silver	107-1	143	147	130	140	6.30	cps
Silver	109-1	50	40	57	49	17.16	cps
Sodium	23-2	32561	31385	32077	32008	1.85	cps
Strontium	86-1	883	757	783	808	8.27	cps
Strontium	88-1	590	370	477	479	22.97	cps
Sulfur	34-1	330055	328055	331099	329737	0.47	cps
Terbium	159-1	28812817	28401282	28141802	28451967	1.19	cps
Terbium	159-2	18531303	18639139	18629713	18600052	0.32	cps
Thallium	203-1	173	227	203	201	13.29	cps
Thallium	205-1	417	377	340	378	10.15	cps
Tin	118-1	1987	1933	2027	1982	2.36	cps
Titanium	47-1	193	183	137	171	17.68	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:53:15	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	67	63	37	56	29.59	cps
Vanadium	51-2	23	33	20	26	27.15	cps
Yttrium	89-1	34514088	34556964	34574439	34548497	0.09	cps
Yttrium	89-2	9449699	9602122	9455910	9502577	0.91	cps
Zinc	66-2	897	993	867	919	7.20	cps
Zirconium	90-1	1360	1383	1400	1381	1.46	cps
Zirconium	91-1	283	203	250	246	16.36	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11618	11658	11601	11626	0.25	cps
Antimony	121-1	54024	54078	53827	53976	0.25	cps
Arsenic	75-2	1680	1640	1667	1662	1.23	cps
Barium	135-1	63534	63504	62861	63300	0.60	cps
Barium	137-1	108309	109880	107811	108667	0.99	cps
Beryllium	9-1	2434	2689	2684	2602	5.61	cps
Bismuth	209-1	16713701	16544145	16472510	16576785	0.75	cps
Bismuth	209-2	12188423	12278455	12363639	12276839	0.71	cps
Bromine	81-1	13089	12932	13203	13075	1.04	cps
Bromine	81-2	137	150	107	131	16.93	cps
Cadmium	108-1	593	520	523	546	7.59	cps
Cadmium	106-1	9923	9823	9490	9746	2.33	cps
Cadmium	111-1	13946	13728	13312	13662	2.36	cps
Calcium	43-1	35485	36223	35588	35765	1.12	cps
Calcium	44-1	607232	609098	602905	606412	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25592	25805	25572	25656	0.50	cps
Cobalt	59-2	20541	19456	20037	20011	2.71	cps
Copper	63-2	29045	29362	29299	29235	0.57	cps
Dysprosium	156-1	20	37	27	28	30.20	cps
Dysprosium	156-2	17	13	20	17	20.01	cps
Erbium	164-1	183	180	177	180	1.85	cps
Erbium	164-2	187	113	160	153	24.21	cps
Gadolinium	160-1	150	203	173	176	15.23	cps
Gadolinium	160-2	1127	1050	1067	1081	3.73	cps
Holmium	165-1	28083211	27696614	27868524	27882783	0.69	cps
Holmium	165-2	18620662	18540731	18490023	18550472	0.36	cps
Indium	115-1	23988856	24112741	24067926	24056508	0.26	cps
Indium	115-2	8980996	8842952	8850369	8891439	0.87	cps
Iron	56-2	597542	599828	595391	597587	0.37	cps
Iron	57-2	16579	16472	17013	16688	1.72	cps
Iron	54-2	36210	36982	36033	36408	1.39	cps
Krypton	83-1	487	473	497	486	2.41	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	19307	19350	19134	19264	0.60	cps
Lead	207-1	16877	16704	16997	16859	0.88	cps
Lead	208-1	76651	76320	76340	76437	0.24	cps
Lithium	6-1	2512660	2448744	2462618	2474674	1.36	cps
Magnesium	24-2	509286	509430	509177	509297	0.02	cps
Manganese	55-2	9887	9797	9730	9804	0.80	cps
Molybdenum	94-1	54963	55036	55484	55161	0.51	cps
Molybdenum	95-1	67404	68084	67347	67612	0.61	cps
Molybdenum	96-1	74924	75818	74381	75041	0.97	cps
Molybdenum	97-1	43003	42237	42849	42697	0.95	cps
Molybdenum	98-1	108993	108398	107391	108261	0.75	cps
Neodymium	150-1	33	20	17	23	37.78	cps
Neodymium	150-2	10	33	7	17	87.16	cps
Nickel	60-2	5418	5114	5168	5233	3.10	cps
Phosphorus	31-2	1333	1300	1343	1326	1.71	cps
Potassium	39-2	732850	734587	732176	733204	0.17	cps
Rhodium	103-1	23680188	23392783	23217614	23430195	1.00	cps
Rhodium	103-2	14429762	14022069	14311930	14254587	1.47	cps
Scandium	45-1	13016301	13008019	12903741	12976020	0.48	cps
Scandium	45-2	1259052	1241758	1247765	1249525	0.70	cps
Selenium	82-1	3241	3346	3250	3279	1.77	cps
Selenium	77-2	263	237	227	242	7.83	cps
Selenium	78-2	1340	1353	1360	1351	0.75	cps
Silicon	28-1	1484698	1519690	1512102	1505496	1.22	cps
Silver	107-1	34755	35330	34755	34946	0.95	cps
Silver	109-1	32470	33282	33743	33165	1.94	cps
Sodium	23-2	804791	807011	805739	805847	0.14	cps
Strontium	86-1	9250	9827	8956	9344	4.74	cps
Strontium	88-1	72862	73904	73024	73263	0.77	cps
Sulfur	34-1	337050	341332	335283	337888	0.92	cps
Terbium	159-1	29031100	28768372	28783208	28860893	0.51	cps
Terbium	159-2	18818253	18628436	18701610	18716100	0.51	cps
Thallium	203-1	23868	24008	23303	23726	1.57	cps
Thallium	205-1	55901	55359	55058	55439	0.77	cps
Tin	118-1	112061	112599	111514	112058	0.48	cps
Titanium	47-1	16326	15968	15862	16052	1.51	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 21:59:47	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	69429	70197	69215	69614	0.74	cps
Vanadium	51-2	50989	51691	51253	51311	0.69	cps
Yttrium	89-1	35106601	35439684	34999417	35181901	0.65	cps
Yttrium	89-2	9635411	9634547	9543321	9604426	0.55	cps
Zinc	66-2	12635	12746	12215	12532	2.23	cps
Zirconium	90-1	46614	46992	46610	46739	0.47	cps
Zirconium	91-1	10224	10287	10007	10172	1.44	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	619545	619276	616730	618517	0.25	cps
Antimony	121-1	1229735	1258051	1260597	1249461	1.37	cps
Arsenic	75-2	73142	73427	71950	72840	1.08	cps
Barium	135-1	1478263	1508809	1529321	1505464	1.71	cps
Barium	137-1	2537122	2663020	2597188	2599110	2.42	cps
Beryllium	9-1	118290	118968	120015	119091	0.73	cps
Bismuth	209-1	16184722	15889275	15709085	15927694	1.51	cps
Bismuth	209-2	11872351	11782194	11782755	11812433	0.44	cps
Bromine	81-1	12792	12806	12922	12840	0.56	cps
Bromine	81-2	113	97	117	109	9.84	cps
Cadmium	108-1	24698	25275	24694	24889	1.34	cps
Cadmium	106-1	42886	44501	43715	43701	1.85	cps
Cadmium	111-1	331889	342030	339284	337735	1.55	cps
Calcium	43-1	325409	332834	337455	331899	1.83	cps
Calcium	44-1	5065324	5215776	5141374	5140825	1.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	571232	568530	568486	569416	0.28	cps
Cobalt	59-2	906952	907434	901841	905409	0.34	cps
Copper	63-2	6890791	6871329	6818290	6860136	0.55	cps
Dysprosium	156-1	40	57	57	51	18.83	cps
Dysprosium	156-2	70	80	63	71	11.80	cps
Erbium	164-1	250	210	223	228	8.94	cps
Erbium	164-2	137	180	147	154	14.69	cps
Gadolinium	160-1	190	157	143	163	14.71	cps
Gadolinium	160-2	1070	1090	1013	1058	3.76	cps
Holmium	165-1	27138791	27102725	26425054	26888857	1.50	cps
Holmium	165-2	18041261	17965448	17834275	17946995	0.58	cps
Indium	115-1	23448389	22831086	23215346	23164940	1.35	cps
Indium	115-2	8611142	8567070	8486305	8554839	0.74	cps
Iron	56-2	26415360	26246348	26133107	26264938	0.54	cps
Iron	57-2	682307	675675	674535	677506	0.62	cps
Iron	54-2	1478503	1455288	1449100	1460964	1.06	cps
Krypton	83-1	360	507	513	460	18.84	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4245710	4476930	4328765	4350468	2.69	cps
Lead	207-1	3786277	3980059	3925658	3897332	2.56	cps
Lead	208-1	17203595	17761974	17526632	17497400	1.60	cps
Lithium	6-1	2402891	2348812	2439394	2397032	1.90	cps
Magnesium	24-2	4953177	4907996	4896388	4919187	0.61	cps
Manganese	55-2	4393642	4318485	4335293	4349140	0.91	cps
Molybdenum	94-1	4380268	4470948	4528359	4459858	1.67	cps
Molybdenum	95-1	6434566	6594926	6622002	6550498	1.55	cps
Molybdenum	96-1	7099847	7266085	7220049	7195327	1.19	cps
Molybdenum	97-1	4029885	4102901	4107136	4079974	1.06	cps
Molybdenum	98-1	10565648	10676002	10690038	10643896	0.64	cps
Neodymium	150-1	67	87	83	79	13.58	cps
Neodymium	150-2	10	23	33	22	52.68	cps
Nickel	60-2	239061	238586	237689	238445	0.29	cps
Phosphorus	31-2	29943	29021	29996	29653	1.85	cps
Potassium	39-2	3137337	3119616	3119953	3125635	0.32	cps
Rhodium	103-1	22798429	22363102	22515041	22558857	0.98	cps
Rhodium	103-2	13680766	13776685	13419591	13625681	1.36	cps
Scandium	45-1	12638806	12359101	12302568	12433492	1.45	cps
Scandium	45-2	1188965	1196786	1197662	1194471	0.40	cps
Selenium	82-1	19812	19650	20237	19900	1.52	cps
Selenium	77-2	1953	2084	2007	2015	3.24	cps
Selenium	78-2	7869	7499	7532	7633	2.68	cps
Silicon	28-1	2142986	2128254	2140133	2137124	0.37	cps
Silver	107-1	1688464	1695193	1733864	1705840	1.44	cps
Silver	109-1	1592537	1619890	1641862	1618096	1.53	cps
Sodium	23-2	7856476	7883277	7924522	7888091	0.43	cps
Strontium	86-1	395693	406765	412377	404945	2.10	cps
Strontium	88-1	3511158	3603706	3566281	3560382	1.31	cps
Sulfur	34-1	411122	415839	415169	414043	0.62	cps
Terbium	159-1	28437127	27668641	28130875	28078881	1.38	cps
Terbium	159-2	18437643	18350762	17861226	18216544	1.71	cps
Thallium	203-1	1114810	1135055	1144940	1131602	1.36	cps
Thallium	205-1	2507706	2621973	2630586	2586755	2.65	cps
Tin	118-1	1027834	1062499	1061964	1050765	1.89	cps
Titanium	47-1	1518446	1544361	1555743	1539516	1.24	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:03:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3361417	3390570	3346635	3366207	0.66	cps
Vanadium	51-2	491030	487574	484777	487794	0.64	cps
Yttrium	89-1	34061709	33617851	33081681	33587080	1.46	cps
Yttrium	89-2	9289483	9172858	9121067	9194469	0.94	cps
Zinc	66-2	1084498	1080139	1074856	1079831	0.45	cps
Zirconium	90-1	2175515	2215387	2194463	2195122	0.91	cps
Zirconium	91-1	476255	486123	491960	484779	1.64	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1438999	1432804	1444547	1438783	0.41	cps
Antimony	121-1	3096592	3205123	3232830	3178182	2.27	cps
Arsenic	75-2	182311	181920	182301	182177	0.12	cps
Barium	135-1	3735005	3935617	3857753	3842792	2.63	cps
Barium	137-1	6338476	6634400	6665391	6546089	2.76	cps
Beryllium	9-1	285676	298030	296262	293323	2.28	cps
Bismuth	209-1	17086007	16502209	16239604	16609273	2.61	cps
Bismuth	209-2	12093104	12000824	11869936	11987955	0.94	cps
Bromine	81-1	12829	13269	13393	13164	2.25	cps
Bromine	81-2	120	120	107	116	6.66	cps
Cadmium	108-1	60137	63073	62336	61849	2.47	cps
Cadmium	106-1	94975	97461	98128	96854	1.72	cps
Cadmium	111-1	824366	856056	854068	844830	2.10	cps
Calcium	43-1	815801	842522	842347	833557	1.84	cps
Calcium	44-1	12785930	13012108	13113674	12970571	1.29	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1429149	1423852	1400192	1417731	1.09	cps
Cobalt	59-2	2290544	2261811	2279732	2277362	0.64	cps
Copper	63-2	17016801	17018003	16940344	16991716	0.26	cps
Dysprosium	156-1	67	77	83	76	11.10	cps
Dysprosium	156-2	123	210	173	169	25.76	cps
Erbium	164-1	253	223	227	234	7.01	cps
Erbium	164-2	147	170	197	171	14.62	cps
Gadolinium	160-1	233	190	220	214	10.35	cps
Gadolinium	160-2	1027	1120	1013	1053	5.52	cps
Holmium	165-1	28607291	27909146	27642340	28052926	1.78	cps
Holmium	165-2	18311155	18509906	18208176	18343079	0.84	cps
Indium	115-1	24593278	23929302	23420141	23980907	2.45	cps
Indium	115-2	8562079	8449640	8530221	8513980	0.68	cps
Iron	56-2	65781064	65843829	64944456	65523116	0.77	cps
Iron	57-2	1651983	1608174	1619177	1626445	1.40	cps
Iron	54-2	3610501	3631465	3616845	3619604	0.30	cps
Krypton	83-1	430	493	460	461	6.87	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10939757	11178581	11287329	11135222	1.60	cps
Lead	207-1	9623921	9978283	10009198	9870467	2.17	cps
Lead	208-1	43784767	45097829	45380980	44754526	1.90	cps
Lithium	6-1	2537519	2425152	2398702	2453791	3.00	cps
Magnesium	24-2	12376547	12463161	12428469	12422726	0.35	cps
Manganese	55-2	10893688	10907090	10804819	10868532	0.51	cps
Molybdenum	94-1	11046206	11451955	11595280	11364480	2.51	cps
Molybdenum	95-1	16405439	16754202	16891730	16683790	1.50	cps
Molybdenum	96-1	17788671	18256052	18484999	18176574	1.95	cps
Molybdenum	97-1	10129142	10366984	10405913	10300680	1.45	cps
Molybdenum	98-1	25972491	26864363	27010265	26615706	2.11	cps
Neodymium	150-1	213	170	220	201	13.50	cps
Neodymium	150-2	57	50	47	51	9.96	cps
Nickel	60-2	590235	588955	587852	589014	0.20	cps
Phosphorus	31-2	73177	73274	73596	73349	0.30	cps
Potassium	39-2	7633674	7578242	7686231	7632715	0.71	cps
Rhodium	103-1	23724805	23151610	22581310	23152575	2.47	cps
Rhodium	103-2	13819723	13713961	13594743	13709476	0.82	cps
Scandium	45-1	13149840	12744948	12643234	12846008	2.09	cps
Scandium	45-2	1194122	1194012	1183643	1190592	0.51	cps
Selenium	82-1	47768	49140	48596	48501	1.42	cps
Selenium	77-2	5344	5371	5258	5324	1.11	cps
Selenium	78-2	18065	17904	18315	18094	1.14	cps
Silicon	28-1	3075426	3133607	3139953	3116328	1.14	cps
Silver	107-1	4230362	4348042	4311616	4296673	1.40	cps
Silver	109-1	3981479	4104149	4134401	4073343	1.99	cps
Sodium	23-2	19598673	19658087	19561787	19606183	0.25	cps
Strontium	86-1	1000657	1024161	1028636	1017818	1.48	cps
Strontium	88-1	8780588	9019112	9087889	8962530	1.80	cps
Sulfur	34-1	530967	537633	536307	534969	0.66	cps
Terbium	159-1	29935720	28967822	28594760	29166101	2.37	cps
Terbium	159-2	18570565	18650856	18381106	18534176	0.75	cps
Thallium	203-1	2805858	2855395	2853959	2838404	0.99	cps
Thallium	205-1	6522097	6622576	6704280	6616318	1.38	cps
Tin	118-1	2586584	2686612	2691287	2654828	2.23	cps
Titanium	47-1	3788892	3913386	3922368	3874882	1.93	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:05:57	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8430876	8623678	8629270	8561275	1.32	cps
Vanadium	51-2	1217035	1212561	1214330	1214642	0.19	cps
Yttrium	89-1	36263815	34721742	34231951	35072503	3.02	cps
Yttrium	89-2	9326048	9305084	9233175	9288102	0.52	cps
Zinc	66-2	2640762	2690482	2672848	2668031	0.94	cps
Zirconium	90-1	5427932	5578855	5626923	5544570	1.87	cps
Zirconium	91-1	1191773	1237023	1236973	1221923	2.14	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2914293	2889399	2866875	2890189	0.82	cps
Antimony	121-1	6295941	6500944	6476079	6424322	1.74	cps
Arsenic	75-2	371602	373383	374397	373127	0.38	cps
Barium	135-1	7711784	7846949	7804885	7787873	0.89	cps
Barium	137-1	13005378	13353703	13360741	13239941	1.53	cps
Beryllium	9-1	571251	575886	582327	576488	0.96	cps
Bismuth	209-1	15983158	16115439	15993772	16030789	0.46	cps
Bismuth	209-2	11951041	11994726	12067130	12004299	0.49	cps
Bromine	81-1	13366	13850	13723	13646	1.84	cps
Bromine	81-2	140	93	123	119	19.89	cps
Cadmium	108-1	124092	126082	126142	125438	0.93	cps
Cadmium	106-1	182760	184735	185333	184276	0.73	cps
Cadmium	111-1	1651879	1680010	1682034	1671308	1.01	cps
Calcium	43-1	1566263	1640816	1618334	1608471	2.38	cps
Calcium	44-1	25657608	26360335	26089595	26035846	1.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2891339	2895093	2929512	2905315	0.72	cps
Cobalt	59-2	4668715	4603846	4597971	4623511	0.85	cps
Copper	63-2	34447109	34531983	34237723	34405605	0.44	cps
Dysprosium	156-1	153	187	163	168	10.19	cps
Dysprosium	156-2	377	397	347	373	6.74	cps
Erbium	164-1	313	323	303	313	3.19	cps
Erbium	164-2	167	163	190	173	8.38	cps
Gadolinium	160-1	247	233	227	236	4.32	cps
Gadolinium	160-2	1130	1190	1067	1129	5.46	cps
Holmium	165-1	27382683	27683955	27266380	27444340	0.79	cps
Holmium	165-2	18352160	18481845	18451763	18428589	0.37	cps
Indium	115-1	22529874	23285016	23222585	23012492	1.82	cps
Indium	115-2	8673266	8603239	8720465	8665657	0.68	cps
Iron	56-2	132644541	131319205	131905161	131956302	0.50	cps
Iron	57-2	3317664	3302867	3272536	3297689	0.70	cps
Iron	54-2	7300871	7365070	7294542	7320161	0.53	cps
Krypton	83-1	500	477	427	468	8.01	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21980387	22574826	22532755	22362656	1.48	cps
Lead	207-1	19388273	19877357	20052523	19772718	1.74	cps
Lead	208-1	87664387	90126640	90684643	89491890	1.80	cps
Lithium	6-1	2362924	2328401	2354981	2348769	0.77	cps
Magnesium	24-2	24869739	24414936	24531002	24605226	0.96	cps
Manganese	55-2	22283877	21984506	22209510	22159297	0.70	cps
Molybdenum	94-1	22642645	23008400	23183394	22944813	1.20	cps
Molybdenum	95-1	32882845	33751779	33978416	33537680	1.72	cps
Molybdenum	96-1	36193617	36578478	37147462	36639852	1.31	cps
Molybdenum	97-1	20490004	20803211	21094311	20795842	1.45	cps
Molybdenum	98-1	53316544	53897336	54746354	53986745	1.33	cps
Neodymium	150-1	407	353	333	364	10.40	cps
Neodymium	150-2	80	60	97	79	23.27	cps
Nickel	60-2	1183292	1174440	1184883	1180872	0.48	cps
Phosphorus	31-2	145050	145665	144303	145006	0.47	cps
Potassium	39-2	15392626	15456912	15381397	15410312	0.26	cps
Rhodium	103-1	22158633	22398333	22194969	22250645	0.58	cps
Rhodium	103-2	13758771	13667449	13757403	13727875	0.38	cps
Scandium	45-1	12400148	12387002	12509891	12432347	0.54	cps
Scandium	45-2	1190335	1191439	1197772	1193182	0.34	cps
Selenium	82-1	94308	96670	96202	95726	1.31	cps
Selenium	77-2	10204	10380	10677	10420	2.30	cps
Selenium	78-2	36201	35205	36839	36082	2.28	cps
Silicon	28-1	4619178	4800626	4825864	4748556	2.37	cps
Silver	107-1	8522447	8662164	8562005	8582205	0.84	cps
Silver	109-1	8013833	8222750	8266806	8167796	1.65	cps
Sodium	23-2	39199546	39063223	38746014	39002928	0.60	cps
Strontium	86-1	2071691	2108299	2121073	2100354	1.22	cps
Strontium	88-1	17727719	18290252	18191682	18069884	1.66	cps
Sulfur	34-1	724180	729087	724855	726041	0.37	cps
Terbium	159-1	28302910	28391330	28358940	28351060	0.16	cps
Terbium	159-2	18700633	18924249	18783684	18802856	0.60	cps
Thallium	203-1	5652257	5680952	5819091	5717433	1.56	cps
Thallium	205-1	13217009	13362542	13361306	13313619	0.63	cps
Tin	118-1	5207752	5363528	5387577	5319619	1.84	cps
Titanium	47-1	7667183	7747431	7775724	7730113	0.73	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:08:41	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17226057	17497641	17746405	17490034	1.49	cps
Vanadium	51-2	2474151	2472994	2507822	2484989	0.80	cps
Yttrium	89-1	33620250	33952075	33734119	33768815	0.50	cps
Yttrium	89-2	9353435	9443863	9412351	9403216	0.49	cps
Zinc	66-2	5411742	5400525	5356052	5389440	0.55	cps
Zirconium	90-1	10952418	11169313	11403435	11175055	2.02	cps
Zirconium	91-1	2485010	2507205	2499635	2497283	0.45	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5654003	5669173	5699051	5674076	0.40	cps
Antimony	121-1	12917202	13358084	13279136	13184807	1.78	cps
Arsenic	75-2	757547	758041	764942	760177	0.54	cps
Barium	135-1	15722605	16123884	16268114	16038201	1.76	cps
Barium	137-1	26736885	27577452	27527079	27280472	1.73	cps
Beryllium	9-1	1083893	1142112	1108903	1111636	2.63	cps
Bismuth	209-1	16518131	15713414	15920805	16050783	2.60	cps
Bismuth	209-2	11882361	11809874	11866794	11853010	0.32	cps
Bromine	81-1	14991	14821	15078	14963	0.87	cps
Bromine	81-2	93	177	143	138	30.45	cps
Cadmium	108-1	246840	257257	256123	253407	2.26	cps
Cadmium	106-1	352736	365500	369327	362521	2.40	cps
Cadmium	111-1	3295241	3397378	3452590	3381737	2.36	cps
Calcium	43-1	3227480	3274961	3321739	3274726	1.44	cps
Calcium	44-1	51643458	52865051	53572783	52693764	1.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5832340	5845039	5790171	5822516	0.49	cps
Cobalt	59-2	9215146	9377402	9213714	9268754	1.02	cps
Copper	63-2	68791536	69338509	69182904	69104316	0.41	cps
Dysprosium	156-1	260	253	237	250	4.81	cps
Dysprosium	156-2	693	690	713	699	1.81	cps
Erbium	164-1	377	313	367	352	9.67	cps
Erbium	164-2	220	207	257	228	11.37	cps
Gadolinium	160-1	320	250	307	292	12.72	cps
Gadolinium	160-2	1060	1197	1137	1131	6.06	cps
Holmium	165-1	28508792	26802234	27865569	27725532	3.11	cps
Holmium	165-2	19197184	18984784	18796918	18992962	1.05	cps
Indium	115-1	23932642	22794009	23667592	23464748	2.54	cps
Indium	115-2	8768909	8710049	8908530	8795829	1.16	cps
Iron	56-2	266907909	268495129	268400576	267934538	0.33	cps
Iron	57-2	6575986	6667331	6633243	6625520	0.70	cps
Iron	54-2	14664450	14944308	14857214	14821990	0.97	cps
Krypton	83-1	513	553	557	541	4.46	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	44306548	45184726	45309511	44933595	1.22	cps
Lead	207-1	39309535	40125930	40208284	39881250	1.25	cps
Lead	208-1	177552505	181600691	180981621	180044939	1.21	cps
Lithium	6-1	2228555	2096762	2157886	2161068	3.05	cps
Magnesium	24-2	48479804	48376569	48882031	48579468	0.55	cps
Manganese	55-2	44595534	44884274	44884444	44788084	0.37	cps
Molybdenum	94-1	45771028	47334979	48024716	47043574	2.45	cps
Molybdenum	95-1	67343579	69615164	69894546	68951096	2.03	cps
Molybdenum	96-1	72919847	76094749	76321434	75112010	2.53	cps
Molybdenum	97-1	40976103	42837404	43248081	42353863	2.86	cps
Molybdenum	98-1	107508378	111593292	112697478	110599716	2.47	cps
Neodymium	150-1	633	683	627	648	4.78	cps
Neodymium	150-2	167	167	130	154	13.71	cps
Nickel	60-2	2427338	2420324	2431934	2426532	0.24	cps
Phosphorus	31-2	287115	287382	288604	287700	0.28	cps
Potassium	39-2	30744276	30994770	30833763	30857603	0.41	cps
Rhodium	103-1	22872154	21717113	22650822	22413363	2.74	cps
Rhodium	103-2	14012174	13911536	13955538	13959749	0.36	cps
Scandium	45-1	12888087	12222842	12534878	12548603	2.65	cps
Scandium	45-2	1242127	1249436	1243241	1244935	0.32	cps
Selenium	82-1	190440	196111	196707	194420	1.78	cps
Selenium	77-2	20955	21646	22240	21614	2.98	cps
Selenium	78-2	72302	72396	73377	72691	0.82	cps
Silicon	28-1	7885331	7987028	8125374	7999244	1.51	cps
Silver	107-1	17050642	17337943	17456784	17281790	1.21	cps
Silver	109-1	16151779	16609029	16623425	16461411	1.63	cps
Sodium	23-2	77043361	76535566	77557811	77045579	0.66	cps
Strontium	86-1	4185497	4291464	4354656	4277206	2.00	cps
Strontium	88-1	36040062	37452286	37449043	36980464	2.20	cps
Sulfur	34-1	1246034	1266127	1292555	1268239	1.84	cps
Terbium	159-1	29611591	28119045	28972160	28900932	2.59	cps
Terbium	159-2	19106010	19099082	19078727	19094606	0.07	cps
Thallium	203-1	11370545	11556203	11514203	11480317	0.85	cps
Thallium	205-1	26214810	26951818	26587955	26584861	1.39	cps
Tin	118-1	10672915	10990767	11082962	10915548	1.97	cps
Titanium	47-1	15387171	15942868	16049199	15793079	2.25	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:11:27	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	34843187	35571344	35849224	35421252	1.47	cps
Vanadium	51-2	5080991	5049797	5100346	5077045	0.50	cps
Yttrium	89-1	35123501	33498768	34818923	34480397	2.50	cps
Yttrium	89-2	9675970	9787052	9708395	9723806	0.59	cps
Zinc	66-2	10852111	10947146	10939301	10912853	0.48	cps
Zirconium	90-1	22413837	23112845	23511745	23012809	2.41	cps
Zirconium	91-1	4936899	5166875	5188104	5097293	2.73	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11320984	11441599	11453405	11405329	0.64	cps
Antimony	121-1	26496447	26782037	26750305	26676263	0.59	cps
Arsenic	75-2	1551919	1564570	1553570	1556686	0.44	cps
Barium	135-1	32156269	32737280	32624043	32505864	0.95	cps
Barium	137-1	54601103	55680308	55773913	55351774	1.18	cps
Beryllium	9-1	2102731	2104554	2136636	2114640	0.90	cps
Bismuth	209-1	15944968	16137708	16036728	16039801	0.60	cps
Bismuth	209-2	11671994	11727729	11535904	11645209	0.85	cps
Bromine	81-1	15742	15678	15245	15555	1.74	cps
Bromine	81-2	110	153	150	138	17.50	cps
Cadmium	108-1	498516	502834	506891	502747	0.83	cps
Cadmium	106-1	712799	716315	720311	716475	0.52	cps
Cadmium	111-1	6772940	6775528	6852281	6800250	0.66	cps
Calcium	43-1	6534414	6687729	6565023	6595722	1.23	cps
Calcium	44-1	106414585	107311042	107461955	107062527	0.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11580371	11623782	11581068	11595074	0.21	cps
Cobalt	59-2	18436331	18358527	18106569	18300476	0.94	cps
Copper	63-2	134197415	134730331	134044288	134324011	0.27	cps
Dysprosium	156-1	447	493	530	490	8.52	cps
Dysprosium	156-2	1397	1437	1427	1420	1.47	cps
Erbium	164-1	450	460	530	480	9.08	cps
Erbium	164-2	357	297	377	343	12.13	cps
Gadolinium	160-1	387	413	407	402	3.45	cps
Gadolinium	160-2	1287	1227	1313	1276	3.48	cps
Holmium	165-1	28470914	28679044	28413191	28521050	0.49	cps
Holmium	165-2	18885161	18896027	18939643	18906944	0.15	cps
Indium	115-1	23629601	23768318	23600991	23666303	0.38	cps
Indium	115-2	8637766	8679062	8626854	8647894	0.32	cps
Iron	56-2	534181352	526781112	531354512	530772325	0.70	cps
Iron	57-2	13230037	13291005	13034451	13185165	1.02	cps
Iron	54-2	29491723	29143511	29466666	29367300	0.66	cps
Krypton	83-1	567	507	553	542	5.81	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	89156902	91261019	89883855	90100592	1.19	cps
Lead	207-1	79872939	81673777	80532314	80693010	1.13	cps
Lead	208-1	359594171	368174680	362361020	363376623	1.21	cps
Lithium	6-1	2080432	2106686	2079598	2088905	0.74	cps
Magnesium	24-2	98771172	98931812	98661725	98788236	0.14	cps
Manganese	55-2	89566732	87904732	89417002	88962822	1.03	cps
Molybdenum	94-1	96437655	97248379	97414279	97033437	0.54	cps
Molybdenum	95-1	140378245	141347108	142135508	141286953	0.62	cps
Molybdenum	96-1	152734708	156727898	154475201	154645935	1.29	cps
Molybdenum	97-1	87773169	89116009	87676049	88188409	0.91	cps
Molybdenum	98-1	226890297	227271530	225919103	226693643	0.31	cps
Neodymium	150-1	1290	1347	1400	1346	4.09	cps
Neodymium	150-2	363	337	340	347	4.19	cps
Nickel	60-2	4666020	4715786	4670118	4683975	0.59	cps
Phosphorus	31-2	577364	578857	579115	578445	0.16	cps
Potassium	39-2	62049274	61774216	61815367	61879619	0.24	cps
Rhodium	103-1	22758830	23032110	22964264	22918401	0.62	cps
Rhodium	103-2	13704014	13829565	13670239	13734606	0.61	cps
Scandium	45-1	12805180	12867066	12868383	12846876	0.28	cps
Scandium	45-2	1265627	1259307	1279459	1268131	0.81	cps
Selenium	82-1	390965	394246	392981	392731	0.42	cps
Selenium	77-2	43116	42872	42748	42912	0.44	cps
Selenium	78-2	145608	143547	144668	144608	0.71	cps
Silicon	28-1	13815191	13762597	13767529	13781773	0.21	cps
Silver	107-1	34109963	34424938	34871266	34468722	1.11	cps
Silver	109-1	32770510	32788435	32955700	32838215	0.31	cps
Sodium	23-2	153806918	154596061	151444001	153282327	1.07	cps
Strontium	86-1	8943893	9004048	9077036	9008326	0.74	cps
Strontium	88-1	76718127	78580659	78279111	77859299	1.28	cps
Sulfur	34-1	2056058	2081268	2080422	2072582	0.69	cps
Terbium	159-1	29169637	30085935	30216494	29824022	1.91	cps
Terbium	159-2	19219161	19111493	18970910	19100521	0.65	cps
Thallium	203-1	22948487	23418441	23057224	23141384	1.06	cps
Thallium	205-1	53430684	54727563	53928426	54028891	1.21	cps
Tin	118-1	22107821	22278332	22233120	22206424	0.40	cps
Titanium	47-1	32058572	31899096	32175980	32044550	0.43	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:14:11	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	71515737	72315087	72413076	72081300	0.68	cps
Vanadium	51-2	10260034	10140165	10075829	10158676	0.92	cps
Yttrium	89-1	35451340	35920186	35957779	35776435	0.79	cps
Yttrium	89-2	9779374	9677405	9672449	9709743	0.62	cps
Zinc	66-2	21413061	21586151	21388546	21462586	0.50	cps
Zirconium	90-1	46587886	47439869	47317059	47114938	0.98	cps
Zirconium	91-1	10409251	10650477	10566393	10542040	1.16	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	58550317	58480117	58786386	58605607	0.27	cps
Antimony	121-1	17227	17140	19533	17967	7.55	cps
Arsenic	75-2	813	803	887	834	5.45	cps
Barium	135-1	14164	12305	12369	12946	8.15	cps
Barium	137-1	24435	21249	20532	22072	9.41	cps
Beryllium	9-1	439	267	294	333	27.74	cps
Bismuth	209-1	12641771	13099135	13117387	12952764	2.08	cps
Bismuth	209-2	9803867	9807197	9868697	9826587	0.37	cps
Bromine	81-1	16846	17878	17437	17387	2.98	cps
Bromine	81-2	283	367	330	327	12.79	cps
Cadmium	108-1	217	177	180	191	11.61	cps
Cadmium	106-1	8686	8606	8803	8698	1.14	cps
Cadmium	111-1	7275	6711	6846	6944	4.25	cps
Calcium	43-1	29403471	31079155	31517041	30666556	3.64	cps
Calcium	44-1	477359673	497864353	508900006	494708010	3.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	36177	36314	36838	36443	0.96	cps
Cobalt	59-2	46642	47278	47284	47068	0.78	cps
Copper	63-2	115710	116254	115881	115948	0.24	cps
Dysprosium	156-1	780	843	957	860	10.41	cps
Dysprosium	156-2	733	633	773	713	10.11	cps
Erbium	164-1	1120	957	1017	1031	8.01	cps
Erbium	164-2	780	673	740	731	7.37	cps
Gadolinium	160-1	850	883	860	864	1.98	cps
Gadolinium	160-2	1507	1603	1463	1525	4.70	cps
Holmium	165-1	24344004	25204050	25566647	25038234	2.51	cps
Holmium	165-2	17483535	17118326	17394625	17332162	1.10	cps
Indium	115-1	20232443	21259702	21653240	21048462	3.49	cps
Indium	115-2	8241591	8356912	8434958	8344487	1.17	cps
Iron	56-2	2549312229	2574778628	2586159535	2570083464	0.73	cps
Iron	57-2	63773692	63618881	65127962	64173512	1.29	cps
Iron	54-2	138736848	140804885	141346655	140296129	0.98	cps
Krypton	83-1	607	570	593	590	3.15	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20643	14928	13867	16480	22.12	cps
Lead	207-1	17832	13126	12045	14335	21.46	cps
Lead	208-1	80874	59852	54747	65157	21.25	cps
Lithium	6-1	1724922	1856000	1892720	1824547	4.83	cps
Magnesium	24-2	456939753	466151846	470533420	464541673	1.49	cps
Manganese	55-2	44158	43479	43773	43804	0.78	cps
Molybdenum	94-1	31922	24651	24464	27012	15.75	cps
Molybdenum	95-1	28607	18218	17294	21373	29.39	cps
Molybdenum	96-1	51994	41114	39881	44330	15.04	cps
Molybdenum	97-1	18202	11301	10924	13476	30.41	cps
Molybdenum	98-1	45259	28014	26557	33277	31.26	cps
Neodymium	150-1	507	523	547	526	3.82	cps
Neodymium	150-2	317	303	320	313	2.81	cps
Nickel	60-2	17938	17524	17724	17728	1.17	cps
Phosphorus	31-2	760	753	913	809	11.19	cps
Potassium	39-2	313116255	320710869	321207409	318344844	1.42	cps
Rhodium	103-1	18549819	19464090	19751933	19255281	3.26	cps
Rhodium	103-2	12160194	12254761	12427772	12280909	1.10	cps
Scandium	45-1	11220407	11880074	12216816	11772432	4.31	cps
Scandium	45-2	1264575	1267337	1288896	1273602	1.05	cps
Selenium	82-1	1169	1210	1277	1219	4.49	cps
Selenium	77-2	3	13	27	14	81.07	cps
Selenium	78-2	833	730	673	746	10.88	cps
Silicon	28-1	1582748	1650755	1650316	1627940	2.40	cps
Silver	107-1	5608	4401	3914	4641	18.79	cps
Silver	109-1	5474	4197	3584	4419	21.83	cps
Sodium	23-2	764487002	774798868	773811135	771032335	0.74	cps
Strontium	86-1	23913	22858	24116	23629	2.86	cps
Strontium	88-1	198305	200345	202781	200477	1.12	cps
Sulfur	34-1	260945	266454	267753	265051	1.36	cps
Terbium	159-1	25660404	26358251	26858790	26292482	2.29	cps
Terbium	159-2	17418371	17467041	17569301	17484904	0.44	cps
Thallium	203-1	3070	1967	1727	2255	31.78	cps
Thallium	205-1	6665	4564	4277	5169	25.22	cps
Tin	118-1	15522	14244	13887	14551	5.91	cps
Titanium	47-1	5998	3037	2864	3966	44.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:16:57	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10235	3697	2940	5624	71.32	cps
Vanadium	51-2	1953	1823	1907	1895	3.48	cps
Yttrium	89-1	30670207	32402621	32913980	31995603	3.68	cps
Yttrium	89-2	9584386	9630423	9764083	9659630	0.97	cps
Zinc	66-2	11138	11168	11224	11176	0.39	cps
Zirconium	90-1	40961	37311	37702	38658	5.18	cps
Zirconium	91-1	9490	8346	8339	8725	7.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	326077	325557	321761	324465	0.73	cps
Antimony	121-1	5311913	5581874	5601274	5498354	2.94	cps
Arsenic	75-2	333474	331808	331547	332276	0.31	cps
Barium	135-1	648641	690178	697451	678757	3.88	cps
Barium	137-1	1127320	1193254	1201161	1173912	3.45	cps
Beryllium	9-1	213448	227592	229357	223465	3.90	cps
Bismuth	209-1	16972976	16096750	16340313	16470013	2.75	cps
Bismuth	209-2	12289944	12145467	12047796	12161069	1.00	cps
Bromine	81-1	15765	15438	15512	15572	1.10	cps
Bromine	81-2	130	147	137	138	6.09	cps
Cadmium	108-1	46337	48491	49648	48159	3.49	cps
Cadmium	106-1	73025	76275	77522	75607	3.07	cps
Cadmium	111-1	703266	749739	752656	735220	3.77	cps
Calcium	43-1	142963	151706	152820	149163	3.62	cps
Calcium	44-1	2283987	2421525	2432696	2379403	3.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1359995	1358703	1345691	1354796	0.58	cps
Cobalt	59-2	2165972	2143312	2158665	2155983	0.54	cps
Copper	63-2	1547285	1535048	1531313	1537882	0.54	cps
Dysprosium	156-1	37	20	30	29	29.04	cps
Dysprosium	156-2	37	60	33	43	33.53	cps
Erbium	164-1	180	267	227	224	19.33	cps
Erbium	164-2	130	120	180	143	22.43	cps
Gadolinium	160-1	200	163	157	173	13.46	cps
Gadolinium	160-2	1113	1037	993	1048	5.80	cps
Holmium	165-1	29501784	27755841	28178240	28478622	3.20	cps
Holmium	165-2	19308512	19092643	19104043	19168399	0.63	cps
Indium	115-1	26561254	24723961	25408806	25564674	3.63	cps
Indium	115-2	9473065	9423324	9219491	9371960	1.43	cps
Iron	56-2	24019207	24040798	24025112	24028372	0.05	cps
Iron	57-2	616082	617152	619421	617552	0.28	cps
Iron	54-2	1384905	1366997	1358448	1370116	0.99	cps
Krypton	83-1	530	483	557	523	7.09	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3643167	3869625	3959948	3824247	4.27	cps
Lead	207-1	3142617	3276877	3325087	3248194	2.91	cps
Lead	208-1	14322514	15196120	15368807	14962480	3.75	cps
Lithium	6-1	2341042	2188080	2254420	2261181	3.39	cps
Magnesium	24-2	1289463	1251107	1262504	1267691	1.55	cps
Manganese	55-2	1013415	1009639	1006377	1009810	0.35	cps
Molybdenum	94-1	2764	2734	3177	2891	8.57	cps
Molybdenum	95-1	873	657	690	740	15.77	cps
Molybdenum	96-1	1470	1493	1417	1460	2.69	cps
Molybdenum	97-1	517	457	517	497	6.97	cps
Molybdenum	98-1	1413	1320	1047	1260	15.12	cps
Neodymium	150-1	53	57	73	61	17.53	cps
Neodymium	150-2	30	33	23	29	17.63	cps
Nickel	60-2	564249	563801	559002	562351	0.52	cps
Phosphorus	31-2	610	597	617	608	1.68	cps
Potassium	39-2	2926905	2845802	2836502	2869737	1.73	cps
Rhodium	103-1	25661422	24359161	24762275	24927620	2.67	cps
Rhodium	103-2	15302906	15053259	14944848	15100338	1.22	cps
Scandium	45-1	14397311	13763023	13886192	14015509	2.40	cps
Scandium	45-2	1397418	1345826	1360817	1368020	1.94	cps
Selenium	82-1	80615	85148	84514	83426	2.94	cps
Selenium	77-2	9120	9416	9143	9226	1.79	cps
Selenium	78-2	32245	32392	32132	32256	0.40	cps
Silicon	28-1	1723814	1758811	1747199	1743275	1.02	cps
Silver	107-1	1815794	1876511	1895739	1862682	2.24	cps
Silver	109-1	1719708	1800206	1818599	1779504	2.96	cps
Sodium	23-2	3533904	3513623	3497274	3514933	0.52	cps
Strontium	86-1	3084	3697	3307	3363	9.23	cps
Strontium	88-1	21810	22330	22965	22368	2.59	cps
Sulfur	34-1	306869	307137	305529	306512	0.28	cps
Terbium	159-1	31000978	29116669	29536915	29884854	3.31	cps
Terbium	159-2	19645736	19292091	19358260	19432029	0.97	cps
Thallium	203-1	4610774	4735337	4911708	4752607	3.18	cps
Thallium	205-1	10637512	11289611	11419762	11115628	3.77	cps
Tin	118-1	9874	10654	9790	10106	4.71	cps
Titanium	47-1	460	423	403	429	6.70	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P7
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:40:39	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	267	280	220	256	12.33	cps
Vanadium	51-2	1132561	1131499	1127415	1130492	0.24	cps
Yttrium	89-1	38640189	36839719	36856704	37445538	2.76	cps
Yttrium	89-2	10606570	10552513	10301331	10486805	1.55	cps
Zinc	66-2	467169	467570	460004	464914	0.92	cps
Zirconium	90-1	6001	6431	7459	6630	11.29	cps
Zirconium	91-1	1713	1863	2003	1860	7.80	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1023	1013	833	957	11.18	cps
Antimony	121-1	2597	1980	1757	2111	20.61	cps
Arsenic	75-2	37	23	27	29	24.03	cps
Barium	135-1	433	217	210	287	44.33	cps
Barium	137-1	663	493	280	479	40.11	cps
Beryllium	9-1	139	100	39	93	54.44	cps
Bismuth	209-1	17095372	17574173	17180181	17283242	1.48	cps
Bismuth	209-2	12742021	12657442	12878216	12759226	0.87	cps
Bromine	81-1	15919	16236	15428	15861	2.57	cps
Bromine	81-2	183	150	197	177	13.61	cps
Cadmium	108-1	60	40	33	44	31.23	cps
Cadmium	106-1	10100	9747	9843	9897	1.85	cps
Cadmium	111-1	7262	7031	7070	7121	1.73	cps
Calcium	43-1	927	783	797	836	9.48	cps
Calcium	44-1	64266	64069	63095	63810	0.98	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1763	1620	1627	1670	4.84	cps
Cobalt	59-2	357	343	310	337	7.14	cps
Copper	63-2	2120	1950	1987	2019	4.43	cps
Dysprosium	156-1	17	23	13	18	28.64	cps
Dysprosium	156-2	10	10	17	12	31.50	cps
Erbium	164-1	257	210	227	231	10.23	cps
Erbium	164-2	123	137	170	143	16.77	cps
Gadolinium	160-1	173	180	140	164	13.03	cps
Gadolinium	160-2	1033	1030	1143	1069	6.03	cps
Holmium	165-1	29530740	30298980	29141875	29657198	1.99	cps
Holmium	165-2	19635786	19681976	19515746	19611169	0.44	cps
Indium	115-1	26744974	26945927	26823722	26838208	0.38	cps
Indium	115-2	9946490	10050637	9996647	9997925	0.52	cps
Iron	56-2	57616	56228	56462	56769	1.31	cps
Iron	57-2	2854	2977	2900	2910	2.14	cps
Iron	54-2	6588	6772	6605	6655	1.52	cps
Krypton	83-1	463	433	573	490	15.04	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2280	1613	1253	1716	30.37	cps
Lead	207-1	1907	1340	1187	1478	25.67	cps
Lead	208-1	8795	6494	5260	6850	26.19	cps
Lithium	6-1	2368010	2297244	2377253	2347502	1.86	cps
Magnesium	24-2	3467	3640	3680	3596	3.15	cps
Manganese	55-2	987	953	770	903	12.92	cps
Molybdenum	94-1	700	670	630	667	5.27	cps
Molybdenum	95-1	350	237	210	266	27.99	cps
Molybdenum	96-1	530	360	350	413	24.47	cps
Molybdenum	97-1	187	187	123	166	22.08	cps
Molybdenum	98-1	507	350	363	407	21.36	cps
Neodymium	150-1	7	10	37	18	92.48	cps
Neodymium	150-2	3	20	20	14	66.64	cps
Nickel	60-2	250	207	173	210	18.30	cps
Phosphorus	31-2	483	430	490	468	7.03	cps
Potassium	39-2	102649	104133	104519	103767	0.95	cps
Rhodium	103-1	25928720	26473545	26315272	26239179	1.07	cps
Rhodium	103-2	15867505	15922526	16011374	15933801	0.46	cps
Scandium	45-1	14661895	14541655	14792394	14665314	0.86	cps
Scandium	45-2	1467259	1443310	1431832	1447467	1.25	cps
Selenium	82-1	1348	1362	1259	1323	4.22	cps
Selenium	77-2	3	7	0	3	100.05	cps
Selenium	78-2	797	810	717	774	6.52	cps
Silicon	28-1	1631766	1636036	1609626	1625809	0.87	cps
Silver	107-1	1460	1093	810	1121	29.07	cps
Silver	109-1	1227	877	647	917	31.86	cps
Sodium	23-2	52141	51693	51004	51613	1.11	cps
Strontium	86-1	843	910	867	873	3.87	cps
Strontium	88-1	617	620	483	573	13.60	cps
Sulfur	34-1	308128	307968	305972	307356	0.39	cps
Terbium	159-1	30964681	31159963	31100099	31074914	0.32	cps
Terbium	159-2	20245117	19895302	19777663	19972694	1.22	cps
Thallium	203-1	1823	1310	1027	1387	29.12	cps
Thallium	205-1	4557	3060	2314	3310	34.52	cps
Tin	118-1	2134	2020	1920	2025	5.27	cps
Titanium	47-1	260	247	153	220	26.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P7
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:43:51	DataFile Name :	015CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	130	67	73	90	38.67	cps
Vanadium	51-2	113	103	73	97	21.54	cps
Yttrium	89-1	39497514	39759797	40037709	39765007	0.68	cps
Yttrium	89-2	11047180	10933018	10865299	10948499	0.84	cps
Zinc	66-2	1217	1130	1140	1162	4.08	cps
Zirconium	90-1	1577	1490	1583	1550	3.36	cps
Zirconium	91-1	287	320	303	303	5.50	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	57519869	57101251	57181301	57267474	0.39	cps
Antimony	121-1	31274	31401	31722	31466	0.73	cps
Arsenic	75-2	527	583	590	567	6.14	cps
Barium	135-1	9990	10034	10374	10133	2.07	cps
Barium	137-1	16670	17284	17788	17247	3.25	cps
Beryllium	9-1	506	617	539	554	10.30	cps
Bismuth	209-1	15999600	15629209	16192756	15940521	1.80	cps
Bismuth	209-2	11314339	11319667	11315442	11316483	0.02	cps
Bromine	81-1	19203	19633	20204	19680	2.55	cps
Bromine	81-2	393	370	400	388	4.06	cps
Cadmium	108-1	4594	4414	4354	4454	2.81	cps
Cadmium	106-1	9663	9460	9430	9518	1.33	cps
Cadmium	111-1	9343	9157	8974	9158	2.01	cps
Calcium	43-1	6750772	6823282	6916447	6830167	1.22	cps
Calcium	44-1	109938798	110230452	110530862	110233371	0.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	258935	256371	259879	258395	0.70	cps
Cobalt	59-2	24984	25735	25552	25424	1.54	cps
Copper	63-2	108587	108207	108779	108524	0.27	cps
Dysprosium	156-1	150	140	147	146	3.50	cps
Dysprosium	156-2	90	53	70	71	25.82	cps
Erbium	164-1	360	367	323	350	6.67	cps
Erbium	164-2	213	217	183	204	8.98	cps
Gadolinium	160-1	240	263	233	246	6.42	cps
Gadolinium	160-2	1060	1080	910	1017	9.14	cps
Holmium	165-1	29991360	29392210	29749604	29711058	1.01	cps
Holmium	165-2	19360173	19339489	19193524	19297729	0.47	cps
Indium	115-1	25399063	25169706	25683273	25417347	1.01	cps
Indium	115-2	9132963	9101781	9308837	9181194	1.22	cps
Iron	56-2	1156705796	1145943796	1157008596	1153219396	0.55	cps
Iron	57-2	28899760	28743568	28460040	28701123	0.78	cps
Iron	54-2	63954717	63634792	63192072	63593861	0.60	cps
Krypton	83-1	580	573	560	571	1.78	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	88123	87120	89959	88401	1.63	cps
Lead	207-1	70733	70441	69252	70142	1.12	cps
Lead	208-1	332704	330599	335212	332838	0.69	cps
Lithium	6-1	1960943	1750311	1696308	1802521	7.76	cps
Magnesium	24-2	99447179	99715392	99271405	99477992	0.22	cps
Manganese	55-2	79230	79087	79496	79271	0.26	cps
Molybdenum	94-1	16083678	16206255	16435052	16241662	1.10	cps
Molybdenum	95-1	28078773	28821144	28975470	28625129	1.67	cps
Molybdenum	96-1	30290264	30932617	31046116	30756332	1.33	cps
Molybdenum	97-1	17436191	17994264	18120505	17850320	2.04	cps
Molybdenum	98-1	44905689	46533779	46789241	46076237	2.22	cps
Neodymium	150-1	143	127	143	138	6.99	cps
Neodymium	150-2	70	93	67	77	18.95	cps
Nickel	60-2	28798	28360	27398	28185	2.54	cps
Phosphorus	31-2	3101688	3116288	3101329	3106435	0.27	cps
Potassium	39-2	135411408	134491728	137224475	135709204	1.02	cps
Rhodium	103-1	24021403	23843356	23785510	23883423	0.51	cps
Rhodium	103-2	14526330	14577403	14733063	14612265	0.74	cps
Scandium	45-1	13820439	13275812	13351866	13482706	2.19	cps
Scandium	45-2	1397639	1386603	1382082	1388775	0.58	cps
Selenium	82-1	1208	1149	1144	1167	3.04	cps
Selenium	77-2	20	7	7	11	69.25	cps
Selenium	78-2	700	727	660	696	4.82	cps
Silicon	28-1	1701297	1687005	1676766	1688356	0.73	cps
Silver	107-1	1700	1730	1440	1623	9.82	cps
Silver	109-1	1517	1513	1473	1501	1.61	cps
Sodium	23-2	163912988	160501464	164698678	163037710	1.37	cps
Strontium	86-1	300936	311340	312624	308300	2.08	cps
Strontium	88-1	2699768	2725065	2718741	2714525	0.48	cps
Sulfur	34-1	8976555	8906566	8910797	8931306	0.44	cps
Terbium	159-1	31344257	30890474	31120775	31118502	0.73	cps
Terbium	159-2	19683873	19179147	19442607	19435209	1.30	cps
Thallium	203-1	4641	4111	3647	4133	12.03	cps
Thallium	205-1	10081	9347	8633	9353	7.74	cps
Tin	118-1	8803	9066	8933	8934	1.47	cps
Titanium	47-1	6637679	6698134	6585244	6640353	0.85	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P7
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:47:05	DataFile Name :	016ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1443	1493	1560	1499	3.91	cps
Vanadium	51-2	2427	2367	2484	2426	2.41	cps
Yttrium	89-1	38433657	38197444	38530527	38387209	0.45	cps
Yttrium	89-2	10575580	10518898	10768058	10620845	1.23	cps
Zinc	66-2	36361	36311	36297	36323	0.09	cps
Zirconium	90-1	4564	4434	4674	4557	2.64	cps
Zirconium	91-1	980	1010	1010	1000	1.73	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	56996134	57099766	56160059	56751986	0.91	cps
Antimony	121-1	595424	608431	604838	602898	1.11	cps
Arsenic	75-2	34757	33635	33662	34018	1.88	cps
Barium	135-1	143014	147290	146929	145744	1.63	cps
Barium	137-1	246861	252450	254325	251212	1.55	cps
Beryllium	9-1	33130	32852	31677	32553	2.37	cps
Bismuth	209-1	16581420	15949005	16140851	16223759	2.00	cps
Bismuth	209-2	11287888	11114066	11261602	11221185	0.83	cps
Bromine	81-1	20244	20882	20708	20611	1.60	cps
Bromine	81-2	437	460	467	454	3.47	cps
Cadmium	108-1	13486	13697	13410	13531	1.10	cps
Cadmium	106-1	22381	22297	21903	22194	1.15	cps
Cadmium	111-1	150322	153543	152418	152094	1.07	cps
Calcium	43-1	6685838	6733009	6797725	6738857	0.83	cps
Calcium	44-1	108379148	108004575	109424162	108602628	0.68	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	508892	511097	513798	511262	0.48	cps
Cobalt	59-2	425775	423152	423698	424208	0.33	cps
Copper	63-2	385527	383564	384414	384502	0.26	cps
Dysprosium	156-1	143	143	133	140	4.12	cps
Dysprosium	156-2	103	97	83	94	10.79	cps
Erbium	164-1	320	323	377	340	9.35	cps
Erbium	164-2	183	260	193	212	19.64	cps
Gadolinium	160-1	273	253	210	246	13.19	cps
Gadolinium	160-2	950	943	1043	979	5.71	cps
Holmium	165-1	30403959	30541480	29679620	30208353	1.53	cps
Holmium	165-2	19213922	19214151	19356532	19261535	0.43	cps
Indium	115-1	26183613	25831207	26037076	26017299	0.68	cps
Indium	115-2	9229143	9248995	9218802	9232313	0.17	cps
Iron	56-2	1161031183	1165245263	1159772703	1162016383	0.25	cps
Iron	57-2	28802910	28891095	28884027	28859344	0.17	cps
Iron	54-2	63941972	63738802	63901567	63860781	0.17	cps
Krypton	83-1	513	587	520	540	7.51	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	457209	464509	461276	460998	0.79	cps
Lead	207-1	382119	390251	389268	387213	1.15	cps
Lead	208-1	1766409	1807707	1790386	1788167	1.16	cps
Lithium	6-1	1509289	1510696	1434367	1484784	2.94	cps
Magnesium	24-2	98831739	98381615	97784439	98332597	0.53	cps
Manganese	55-2	269754	269059	271139	269984	0.39	cps
Molybdenum	94-1	16176823	16522532	16432228	16377194	1.09	cps
Molybdenum	95-1	28954804	29621021	29010594	29195473	1.27	cps
Molybdenum	96-1	30713579	31512665	31251485	31159243	1.31	cps
Molybdenum	97-1	17692086	18286972	18242069	18073709	1.83	cps
Molybdenum	98-1	46363864	46963804	47069499	46799056	0.81	cps
Neodymium	150-1	150	143	177	157	11.26	cps
Neodymium	150-2	110	67	130	102	31.67	cps
Nickel	60-2	130449	129419	127570	129146	1.13	cps
Phosphorus	31-2	3070197	3061832	3041397	3057809	0.48	cps
Potassium	39-2	134908611	135502845	136332655	135581370	0.53	cps
Rhodium	103-1	24460957	24318703	24006086	24261915	0.96	cps
Rhodium	103-2	14693656	14741677	14750783	14728706	0.21	cps
Scandium	45-1	13483878	13226651	13047959	13252829	1.65	cps
Scandium	45-2	1377590	1380572	1385492	1381218	0.29	cps
Selenium	82-1	9583	9760	9772	9705	1.09	cps
Selenium	77-2	907	890	1007	934	6.75	cps
Selenium	78-2	3977	4047	3734	3919	4.20	cps
Silicon	28-1	1640636	1627091	1620700	1629476	0.62	cps
Silver	107-1	685670	702965	701656	696764	1.38	cps
Silver	109-1	655189	667003	670973	664389	1.24	cps
Sodium	23-2	162987834	161313454	164401908	162901065	0.95	cps
Strontium	86-1	308535	318719	316958	314737	1.73	cps
Strontium	88-1	2727682	2740498	2770190	2746123	0.79	cps
Sulfur	34-1	8412655	8539510	8507168	8486444	0.78	cps
Terbium	159-1	31604695	31447362	30819199	31290419	1.33	cps
Terbium	159-2	19509415	19263343	19330940	19367899	0.66	cps
Thallium	203-1	475776	477827	482257	478620	0.69	cps
Thallium	205-1	1100211	1126412	1120552	1115725	1.23	cps
Tin	118-1	9403	9213	8809	9142	3.32	cps
Titanium	47-1	6468627	6543958	6493563	6502049	0.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P7
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 22:50:09	DataFile Name :	017ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1257	1183	1260	1233	3.51	cps
Vanadium	51-2	218543	218459	219148	218717	0.17	cps
Yttrium	89-1	39332504	38937326	38891011	39053614	0.62	cps
Yttrium	89-2	10601957	10673881	10650993	10642277	0.35	cps
Zinc	66-2	75586	75654	76437	75893	0.62	cps
Zirconium	90-1	2424	2257	2364	2348	3.60	cps
Zirconium	91-1	570	497	593	553	9.12	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30382888	30385421	30574931	30447747	0.36	cps
Antimony	121-1	12851333	12802332	12827744	12827136	0.19	cps
Arsenic	75-2	806248	802754	805631	804878	0.23	cps
Barium	135-1	15303215	15646841	15506369	15485475	1.12	cps
Barium	137-1	26269904	26655981	26462150	26462678	0.73	cps
Beryllium	9-1	853044	881175	879977	871399	1.83	cps
Bismuth	209-1	15172968	15418424	15325749	15305714	0.81	cps
Bismuth	209-2	10946238	10959807	11016999	10974348	0.34	cps
Bromine	81-1	17864	18121	18238	18074	1.06	cps
Bromine	81-2	150	217	200	189	18.37	cps
Cadmium	108-1	242970	246955	244435	244787	0.82	cps
Cadmium	106-1	348061	356696	354823	353193	1.29	cps
Cadmium	111-1	3288688	3367988	3357488	3338055	1.29	cps
Calcium	43-1	16150435	16351474	16500832	16334247	1.08	cps
Calcium	44-1	261004489	264284736	266802403	264030543	1.10	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5888116	5801084	5924594	5871264	1.08	cps
Cobalt	59-2	9863299	9747909	9878718	9829975	0.73	cps
Copper	63-2	68944297	68990677	69560351	69165108	0.50	cps
Dysprosium	156-1	637	643	580	620	5.61	cps
Dysprosium	156-2	993	967	1000	987	1.79	cps
Erbium	164-1	730	793	710	744	5.84	cps
Erbium	164-2	400	407	470	426	9.08	cps
Gadolinium	160-1	520	580	700	600	15.27	cps
Gadolinium	160-2	1270	1240	1287	1266	1.87	cps
Holmium	165-1	28844892	28902214	28945696	28897601	0.17	cps
Holmium	165-2	18811082	18818136	18814304	18814507	0.02	cps
Indium	115-1	24456220	24743296	24625516	24608344	0.59	cps
Indium	115-2	9093378	8998380	8953868	9015209	0.79	cps
Iron	56-2	1368923820	1344256113	1343454833	1352211589	1.07	cps
Iron	57-2	33627449	33590978	33533802	33584076	0.14	cps
Iron	54-2	74365484	73306596	73983312	73885131	0.73	cps
Krypton	83-1	550	603	593	582	4.87	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	40226619	41349195	40777918	40784577	1.38	cps
Lead	207-1	35631535	36520545	36184674	36112252	1.24	cps
Lead	208-1	160589055	164790316	163649084	163009485	1.33	cps
Lithium	6-1	1779942	1782528	1805601	1789357	0.79	cps
Magnesium	24-2	241140390	236397110	240111616	239216372	1.04	cps
Manganese	55-2	45758411	45183179	45394181	45445257	0.64	cps
Molybdenum	94-1	46442269	47920376	47868581	47410409	1.77	cps
Molybdenum	95-1	67386207	68950022	69146639	68494290	1.41	cps
Molybdenum	96-1	73799899	75698179	75102786	74866954	1.30	cps
Molybdenum	97-1	42199942	42816774	42784076	42600264	0.81	cps
Molybdenum	98-1	109570308	111801518	110855562	110742463	1.01	cps
Neodymium	150-1	810	923	803	846	7.98	cps
Neodymium	150-2	373	260	213	282	29.15	cps
Nickel	60-2	2478202	2514061	2525996	2506086	0.99	cps
Phosphorus	31-2	293904	289500	295055	292820	1.00	cps
Potassium	39-2	167120711	164853611	166161154	166045159	0.69	cps
Rhodium	103-1	22930894	23200560	23286794	23139416	0.80	cps
Rhodium	103-2	14011156	13866428	13983926	13953837	0.55	cps
Scandium	45-1	13292727	13768279	13570050	13543685	1.76	cps
Scandium	45-2	1411552	1380282	1396243	1396026	1.12	cps
Selenium	82-1	199177	203701	202923	201934	1.20	cps
Selenium	77-2	22798	22607	22884	22763	0.62	cps
Selenium	78-2	76637	76637	75337	76204	0.98	cps
Silicon	28-1	7608106	7621824	7789488	7673139	1.32	cps
Silver	107-1	16316277	16611906	16670664	16532949	1.15	cps
Silver	109-1	15519689	15573853	15784784	15626109	0.90	cps
Sodium	23-2	402156981	395141954	400058967	399119301	0.90	cps
Strontium	86-1	4185547	4279520	4277122	4247396	1.26	cps
Strontium	88-1	36557288	36839680	37012931	36803300	0.62	cps
Sulfur	34-1	1041673	1060535	1195708	1099305	7.64	cps
Terbium	159-1	29892740	30443620	29874055	30070138	1.08	cps
Terbium	159-2	19223141	19260338	19296353	19259944	0.19	cps
Thallium	203-1	10584060	10518426	10520529	10541005	0.35	cps
Thallium	205-1	24194160	24712335	24351071	24419189	1.09	cps
Tin	118-1	10573069	10804880	10884402	10754117	1.50	cps
Titanium	47-1	15425381	15631228	16004045	15686885	1.87	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P7
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:02:41	DataFile Name :	019CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	32507253	33231525	32681017	32806598	1.15	cps
Vanadium	51-2	5245914	5180097	5190163	5205392	0.68	cps
Yttrium	89-1	37197329	37546390	37692049	37478590	0.68	cps
Yttrium	89-2	10630697	10397758	10449843	10492766	1.17	cps
Zinc	66-2	11233713	11274228	11386347	11298096	0.70	cps
Zirconium	90-1	22829595	23297920	23607591	23245035	1.69	cps
Zirconium	91-1	5113744	5203983	5272638	5196788	1.53	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	887	860	877	874	1.54	cps
Antimony	121-1	3354	3917	4631	3967	16.13	cps
Arsenic	75-2	40	40	47	42	9.12	cps
Barium	135-1	707	537	510	584	18.25	cps
Barium	137-1	1257	900	877	1011	21.06	cps
Beryllium	9-1	150	139	100	130	20.25	cps
Bismuth	209-1	17518896	17743250	18085253	17782466	1.60	cps
Bismuth	209-2	12906083	12640356	12748036	12764825	1.05	cps
Bromine	81-1	17107	16846	16670	16874	1.30	cps
Bromine	81-2	150	140	147	146	3.50	cps
Cadmium	108-1	27	53	27	36	43.29	cps
Cadmium	106-1	10060	9830	9230	9707	4.42	cps
Cadmium	111-1	7283	7034	6605	6974	4.92	cps
Calcium	43-1	1500	1177	1127	1268	15.99	cps
Calcium	44-1	84045	80054	79069	81056	3.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1827	1753	1903	1828	4.10	cps
Cobalt	59-2	523	443	523	497	9.30	cps
Copper	63-2	3440	3480	3374	3432	1.57	cps
Dysprosium	156-1	20	23	10	18	39.03	cps
Dysprosium	156-2	20	13	10	14	35.26	cps
Erbium	164-1	220	213	257	230	10.14	cps
Erbium	164-2	87	160	160	136	31.23	cps
Gadolinium	160-1	140	127	143	137	6.45	cps
Gadolinium	160-2	1003	1073	1060	1046	3.56	cps
Holmium	165-1	30533740	30415873	30656296	30535303	0.39	cps
Holmium	165-2	20301084	19951736	19681556	19978125	1.55	cps
Indium	115-1	27003725	26996665	27509194	27169862	1.08	cps
Indium	115-2	10168059	9972180	9960001	10033413	1.16	cps
Iron	56-2	83007	78899	78450	80119	3.13	cps
Iron	57-2	3574	3554	3507	3545	0.97	cps
Iron	54-2	8102	8039	7589	7910	3.54	cps
Krypton	83-1	480	633	450	521	18.87	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3450	2520	2554	2841	18.57	cps
Lead	207-1	2994	2410	2190	2531	16.40	cps
Lead	208-1	13449	10795	9918	11388	16.15	cps
Lithium	6-1	2052370	2018269	2082325	2050988	1.56	cps
Magnesium	24-2	8769	8032	8036	8279	5.13	cps
Manganese	55-2	1763	1620	1617	1667	5.02	cps
Molybdenum	94-1	3387	2677	2600	2888	15.02	cps
Molybdenum	95-1	3951	3214	2834	3333	17.04	cps
Molybdenum	96-1	4457	3667	3414	3846	14.15	cps
Molybdenum	97-1	2600	1933	1993	2176	16.95	cps
Molybdenum	98-1	6608	5088	4661	5452	18.77	cps
Neodymium	150-1	47	20	30	32	41.81	cps
Neodymium	150-2	17	7	23	16	53.90	cps
Nickel	60-2	183	250	193	209	17.21	cps
Phosphorus	31-2	493	457	487	479	4.08	cps
Potassium	39-2	129958	129223	126775	128652	1.30	cps
Rhodium	103-1	26214107	26099240	26632327	26315225	1.07	cps
Rhodium	103-2	16247687	16018357	16051868	16105971	0.77	cps
Scandium	45-1	14544261	14313101	14515267	14457543	0.87	cps
Scandium	45-2	1500265	1461623	1465170	1475686	1.45	cps
Selenium	82-1	1248	1000	1337	1195	14.60	cps
Selenium	77-2	7	7	0	4	86.60	cps
Selenium	78-2	680	780	740	733	6.86	cps
Silicon	28-1	1575557	1562583	1565974	1568038	0.43	cps
Silver	107-1	1470	1357	1233	1353	8.75	cps
Silver	109-1	1463	1250	993	1236	19.05	cps
Sodium	23-2	86226	84892	83099	84739	1.85	cps
Strontium	86-1	1013	1013	1007	1011	0.38	cps
Strontium	88-1	2260	1593	1320	1725	28.04	cps
Sulfur	34-1	271084	274775	273978	273279	0.71	cps
Terbium	159-1	31930908	31622889	31652389	31735395	0.54	cps
Terbium	159-2	20525063	20132493	20173445	20277000	1.06	cps
Thallium	203-1	2437	2240	1797	2158	15.19	cps
Thallium	205-1	5264	5038	4434	4912	8.74	cps
Tin	118-1	2664	2690	2504	2619	3.86	cps
Titanium	47-1	1013	743	527	761	32.04	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P7
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:06:07	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1480	1020	963	1155	24.55	cps
Vanadium	51-2	153	130	110	131	16.54	cps
Yttrium	89-1	39842382	39929498	40193538	39988472	0.46	cps
Yttrium	89-2	11287879	11118877	11057223	11154660	1.07	cps
Zinc	66-2	1380	1283	1273	1312	4.49	cps
Zirconium	90-1	2554	2414	2474	2480	2.83	cps
Zirconium	91-1	557	507	477	513	7.87	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	603	717	587	636	11.13	cps
Antimony	121-1	633	690	947	757	22.07	cps
Arsenic	75-2	13	23	27	21	32.88	cps
Barium	135-1	233	187	163	194	18.33	cps
Barium	137-1	363	247	293	301	19.50	cps
Beryllium	9-1	39	33	39	37	8.67	cps
Bismuth	209-1	17845811	17519333	17891493	17752212	1.14	cps
Bismuth	209-2	12963274	12928893	12865999	12919389	0.38	cps
Bromine	81-1	17480	17510	17644	17545	0.50	cps
Bromine	81-2	177	183	203	188	7.39	cps
Cadmium	108-1	13	27	10	17	52.93	cps
Cadmium	106-1	8633	9036	9356	9008	4.03	cps
Cadmium	111-1	6087	6373	6599	6353	4.04	cps
Calcium	43-1	787	793	747	776	3.25	cps
Calcium	44-1	70203	67818	68096	68706	1.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1887	1893	1760	1847	4.07	cps
Cobalt	59-2	243	220	200	221	9.81	cps
Copper	63-2	2410	2224	2304	2312	4.05	cps
Dysprosium	156-1	20	17	13	17	20.01	cps
Dysprosium	156-2	10	3	10	8	49.52	cps
Erbium	164-1	277	260	240	259	7.09	cps
Erbium	164-2	147	207	197	183	17.53	cps
Gadolinium	160-1	117	140	170	142	18.80	cps
Gadolinium	160-2	977	1123	1143	1081	8.42	cps
Holmium	165-1	30982883	30788422	30328414	30699906	1.09	cps
Holmium	165-2	20106947	20086149	20472861	20221986	1.08	cps
Indium	115-1	27401381	27606065	27537726	27515057	0.38	cps
Indium	115-2	10343149	10217542	10134061	10231584	1.03	cps
Iron	56-2	58446	57319	56345	57370	1.83	cps
Iron	57-2	2894	3174	2924	2997	5.13	cps
Iron	54-2	7178	7242	6968	7130	2.01	cps
Krypton	83-1	537	510	600	549	8.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1063	1110	1040	1071	3.33	cps
Lead	207-1	1067	910	980	986	7.96	cps
Lead	208-1	4667	4104	4184	4318	7.06	cps
Lithium	6-1	1918813	1981181	1930371	1943455	1.71	cps
Magnesium	24-2	5558	5298	5511	5455	2.54	cps
Manganese	55-2	877	797	947	873	8.59	cps
Molybdenum	94-1	973	903	1010	962	5.63	cps
Molybdenum	95-1	787	640	637	688	12.45	cps
Molybdenum	96-1	907	773	650	777	16.53	cps
Molybdenum	97-1	523	380	420	441	16.77	cps
Molybdenum	98-1	1250	973	840	1021	20.48	cps
Neodymium	150-1	13	30	27	23	37.81	cps
Neodymium	150-2	7	3	27	12	103.26	cps
Nickel	60-2	193	160	127	160	20.83	cps
Phosphorus	31-2	420	550	500	490	13.38	cps
Potassium	39-2	115527	116401	114298	115409	0.92	cps
Rhodium	103-1	27008561	27166273	27043178	27072671	0.31	cps
Rhodium	103-2	16468701	16365888	16259565	16364718	0.64	cps
Scandium	45-1	14555459	14678418	14642682	14625519	0.43	cps
Scandium	45-2	1497751	1473590	1522438	1497926	1.63	cps
Selenium	82-1	1339	1369	1293	1334	2.89	cps
Selenium	77-2	0	7	3	3	100.05	cps
Selenium	78-2	747	750	773	757	1.92	cps
Silicon	28-1	1656888	1638658	1628251	1641265	0.88	cps
Silver	107-1	330	317	297	314	5.34	cps
Silver	109-1	210	170	220	200	13.23	cps
Sodium	23-2	67062	66178	66523	66587	0.67	cps
Strontium	86-1	1040	1003	963	1002	3.83	cps
Strontium	88-1	753	593	567	638	15.83	cps
Sulfur	34-1	294548	291990	297131	294557	0.87	cps
Terbium	159-1	31871777	31993980	31391445	31752401	1.00	cps
Terbium	159-2	20587609	20269152	20427479	20428080	0.78	cps
Thallium	203-1	790	727	727	748	4.89	cps
Thallium	205-1	1873	1840	1733	1816	4.03	cps
Tin	118-1	2424	2514	2377	2438	2.85	cps
Titanium	47-1	307	193	293	264	23.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BL	Instrumnet Name :	P7
Client Sample ID :	PBS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:16:34	DataFile Name :	021CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	230	170	137	179	26.44	cps
Vanadium	51-2	60	67	40	56	24.98	cps
Yttrium	89-1	40561952	40369098	40686234	40539095	0.39	cps
Yttrium	89-2	11433473	11517363	11439700	11463512	0.41	cps
Zinc	66-2	1107	1050	927	1028	8.95	cps
Zirconium	90-1	1637	1827	1820	1761	6.12	cps
Zirconium	91-1	423	350	387	387	9.48	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30724	31392	30788	30968	1.19	cps
Antimony	121-1	122278	124694	123844	123605	0.99	cps
Arsenic	75-2	3851	3947	3864	3887	1.35	cps
Barium	135-1	141522	144869	144000	143464	1.21	cps
Barium	137-1	244558	252091	248083	248244	1.52	cps
Beryllium	9-1	4106	4306	4517	4310	4.77	cps
Bismuth	209-1	18332478	18056907	17724685	18038023	1.69	cps
Bismuth	209-2	13014284	12902836	12916531	12944551	0.47	cps
Bromine	81-1	18261	18508	18201	18324	0.89	cps
Bromine	81-2	170	240	173	194	20.31	cps
Cadmium	108-1	1173	1103	1207	1161	4.54	cps
Cadmium	106-1	12082	11792	11782	11885	1.43	cps
Cadmium	111-1	23054	23084	23428	23189	0.90	cps
Calcium	43-1	76116	78022	77523	77221	1.28	cps
Calcium	44-1	1260980	1288753	1294176	1281303	1.39	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59654	60113	59674	59814	0.43	cps
Cobalt	59-2	45863	45870	45987	45907	0.15	cps
Copper	63-2	73000	73644	71707	72784	1.36	cps
Dysprosium	156-1	50	60	43	51	16.42	cps
Dysprosium	156-2	53	33	43	43	23.08	cps
Erbium	164-1	250	247	253	250	1.33	cps
Erbium	164-2	183	137	170	163	14.72	cps
Gadolinium	160-1	180	173	180	178	2.16	cps
Gadolinium	160-2	1130	1023	1103	1086	5.11	cps
Holmium	165-1	31399409	31421619	30854761	31225263	1.03	cps
Holmium	165-2	20439215	20218389	20262329	20306644	0.58	cps
Indium	115-1	29224254	28083119	27844315	28383896	2.60	cps
Indium	115-2	10305600	10154225	10261934	10240586	0.76	cps
Iron	56-2	5302313	5268256	5274129	5281566	0.34	cps
Iron	57-2	136100	136779	135407	136095	0.50	cps
Iron	54-2	302146	302630	300940	301906	0.29	cps
Krypton	83-1	477	703	520	567	21.23	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	42155	41787	42770	42238	1.18	cps
Lead	207-1	36883	37575	37482	37313	1.01	cps
Lead	208-1	167078	168885	170153	168706	0.92	cps
Lithium	6-1	2124716	2062402	2075475	2087531	1.57	cps
Magnesium	24-2	1195638	1187588	1188620	1190615	0.37	cps
Manganese	55-2	23308	23298	22741	23116	1.41	cps
Molybdenum	94-1	128692	131312	129970	129992	1.01	cps
Molybdenum	95-1	155600	158973	159347	157973	1.31	cps
Molybdenum	96-1	173712	178255	175907	175958	1.29	cps
Molybdenum	97-1	96804	98972	99466	98414	1.44	cps
Molybdenum	98-1	251792	255802	255660	254418	0.89	cps
Neodymium	150-1	27	27	27	27	0.00	cps
Neodymium	150-2	3	13	13	10	57.75	cps
Nickel	60-2	12712	12008	12135	12285	3.05	cps
Phosphorus	31-2	453	477	427	452	5.53	cps
Potassium	39-2	1655224	1657133	1659157	1657171	0.12	cps
Rhodium	103-1	28072352	27217207	27248436	27512665	1.76	cps
Rhodium	103-2	16411014	16565726	16323815	16433518	0.75	cps
Scandium	45-1	15398989	14966503	14902011	15089168	1.79	cps
Scandium	45-2	1501020	1485668	1497201	1494630	0.53	cps
Selenium	82-1	6273	6137	6221	6210	1.11	cps
Selenium	77-2	547	563	590	567	3.86	cps
Selenium	78-2	2700	2564	2717	2660	3.16	cps
Silicon	28-1	1853914	1862827	1897210	1871317	1.22	cps
Silver	107-1	78551	80012	80672	79745	1.36	cps
Silver	109-1	73130	76578	75767	75158	2.40	cps
Sodium	23-2	1917019	1916018	1929253	1920763	0.38	cps
Strontium	86-1	20254	20488	20771	20504	1.26	cps
Strontium	88-1	170651	174384	174357	173131	1.24	cps
Sulfur	34-1	302359	307189	304214	304587	0.80	cps
Terbium	159-1	33410610	32704200	31832424	32649078	2.42	cps
Terbium	159-2	20639040	20544591	20333068	20505567	0.76	cps
Thallium	203-1	50205	51082	51852	51046	1.61	cps
Thallium	205-1	120397	122590	119472	120820	1.33	cps
Tin	118-1	4111	3894	4144	4050	3.35	cps
Titanium	47-1	36003	36768	37072	36614	1.50	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164720BS	Instrumnet Name :	P7
Client Sample ID :	LCS720	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:19:47	DataFile Name :	022LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	146017	148982	149272	148091	1.22	cps
Vanadium	51-2	122334	122499	121571	122134	0.41	cps
Yttrium	89-1	43128863	41375323	41349416	41951200	2.43	cps
Yttrium	89-2	11539240	11432658	11380540	11450813	0.71	cps
Zinc	66-2	29472	28387	29342	29067	2.04	cps
Zirconium	90-1	108259	112561	110559	110460	1.95	cps
Zirconium	91-1	24427	24691	24397	24505	0.66	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	450	433	457	447	2.69	cps
Antimony	121-1	303	387	517	402	26.73	cps
Arsenic	75-2	20	7	10	12	56.76	cps
Barium	135-1	113	93	80	96	17.56	cps
Barium	137-1	210	173	143	176	19.02	cps
Beryllium	9-1	33	28	17	26	32.72	cps
Bismuth	209-1	17439498	17820691	17510405	17590198	1.15	cps
Bismuth	209-2	12858527	12823917	12722625	12801690	0.55	cps
Bromine	81-1	17921	18932	17818	18224	3.38	cps
Bromine	81-2	193	157	167	172	11.01	cps
Cadmium	108-1	37	27	10	24	55.11	cps
Cadmium	106-1	10057	9807	9737	9867	1.71	cps
Cadmium	111-1	7047	6873	6839	6920	1.62	cps
Calcium	43-1	767	783	743	764	2.63	cps
Calcium	44-1	64621	63680	65160	64487	1.16	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1783	1903	1747	1811	4.52	cps
Cobalt	59-2	217	197	177	197	10.17	cps
Copper	63-2	1970	1957	1980	1969	0.59	cps
Dysprosium	156-1	10	33	23	22	52.68	cps
Dysprosium	156-2	13	20	7	13	49.99	cps
Erbium	164-1	237	187	267	230	17.57	cps
Erbium	164-2	150	183	133	156	16.37	cps
Gadolinium	160-1	133	107	177	139	25.44	cps
Gadolinium	160-2	990	1097	1077	1054	5.38	cps
Holmium	165-1	30568511	30178443	30618705	30455220	0.79	cps
Holmium	165-2	20110226	20230323	19700848	20013799	1.39	cps
Indium	115-1	27839306	27723045	27516495	27692949	0.59	cps
Indium	115-2	10328336	10284396	10133260	10248664	1.00	cps
Iron	56-2	51337	51906	52568	51937	1.19	cps
Iron	57-2	2910	2924	2880	2905	0.76	cps
Iron	54-2	6702	6765	6648	6705	0.87	cps
Krypton	83-1	620	563	557	580	6.00	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	883	817	830	843	4.18	cps
Lead	207-1	650	760	697	702	7.86	cps
Lead	208-1	3164	3360	3184	3236	3.35	cps
Lithium	6-1	2011375	2053170	2075161	2046569	1.58	cps
Magnesium	24-2	4474	4357	4431	4421	1.33	cps
Manganese	55-2	663	717	797	726	9.25	cps
Molybdenum	94-1	680	750	740	723	5.23	cps
Molybdenum	95-1	240	253	283	259	8.57	cps
Molybdenum	96-1	367	323	390	360	9.40	cps
Molybdenum	97-1	110	183	167	153	25.07	cps
Molybdenum	98-1	377	310	330	339	10.10	cps
Neodymium	150-1	23	13	17	18	28.64	cps
Neodymium	150-2	13	13	7	11	34.61	cps
Nickel	60-2	177	167	167	170	3.40	cps
Phosphorus	31-2	430	497	533	487	10.76	cps
Potassium	39-2	114211	113392	111145	112916	1.41	cps
Rhodium	103-1	26932171	26973138	27159643	27021651	0.45	cps
Rhodium	103-2	16386345	16393118	16217106	16332190	0.61	cps
Scandium	45-1	14644462	14815573	14571953	14677329	0.85	cps
Scandium	45-2	1499718	1480271	1490416	1490135	0.65	cps
Selenium	82-1	1220	1263	1313	1265	3.68	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	800	823	740	788	5.46	cps
Silicon	28-1	1665624	1647680	1672073	1661792	0.76	cps
Silver	107-1	397	410	413	407	2.17	cps
Silver	109-1	333	297	263	298	11.76	cps
Sodium	23-2	61981	61713	61241	61645	0.61	cps
Strontium	86-1	930	963	913	936	2.72	cps
Strontium	88-1	507	543	497	516	4.77	cps
Sulfur	34-1	304465	305214	310518	306732	1.08	cps
Terbium	159-1	32514889	31847181	31891795	32084622	1.16	cps
Terbium	159-2	20574710	20253210	19890983	20239634	1.69	cps
Thallium	203-1	540	663	607	603	10.23	cps
Thallium	205-1	1313	1520	1310	1381	8.71	cps
Tin	118-1	2307	2307	2327	2314	0.50	cps
Titanium	47-1	273	227	180	227	20.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BL	Instrumnet Name :	P7
Client Sample ID :	PBS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:23:20	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	67	63	60	63	5.27	cps
Vanadium	51-2	60	43	67	57	21.21	cps
Yttrium	89-1	41030244	40728053	40940874	40899724	0.38	cps
Yttrium	89-2	11476037	11414856	11164033	11351642	1.46	cps
Zinc	66-2	963	977	1000	980	1.89	cps
Zirconium	90-1	1540	1617	1757	1638	6.71	cps
Zirconium	91-1	293	310	397	333	16.64	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	27655	27702	27622	27659	0.15	cps
Antimony	121-1	125575	125303	126514	125797	0.50	cps
Arsenic	75-2	3924	3894	3697	3838	3.21	cps
Barium	135-1	147013	146785	146147	146648	0.31	cps
Barium	137-1	251639	253676	252583	252633	0.40	cps
Beryllium	9-1	4301	4378	4356	4345	0.92	cps
Bismuth	209-1	17546410	17417999	17345033	17436481	0.58	cps
Bismuth	209-2	12867269	12921026	12678899	12822398	0.99	cps
Bromine	81-1	18442	18328	17878	18216	1.64	cps
Bromine	81-2	177	187	183	182	2.79	cps
Cadmium	108-1	1173	1320	1253	1249	5.88	cps
Cadmium	106-1	12182	12035	11868	12028	1.30	cps
Cadmium	111-1	23715	23706	23503	23641	0.51	cps
Calcium	43-1	76910	78746	78589	78082	1.30	cps
Calcium	44-1	1308941	1281321	1284426	1291563	1.17	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59189	59778	60066	59678	0.75	cps
Cobalt	59-2	46997	46465	47030	46831	0.68	cps
Copper	63-2	71336	70692	71382	71137	0.54	cps
Dysprosium	156-1	63	33	50	49	30.75	cps
Dysprosium	156-2	20	27	20	22	17.33	cps
Erbium	164-1	193	207	247	216	12.88	cps
Erbium	164-2	127	120	177	141	21.95	cps
Gadolinium	160-1	153	173	180	169	8.22	cps
Gadolinium	160-2	1100	1090	1010	1067	4.62	cps
Holmium	165-1	30644382	31013536	30418145	30692021	0.98	cps
Holmium	165-2	19781789	19978348	19694767	19818301	0.73	cps
Indium	115-1	27649237	27995224	27903979	27849480	0.64	cps
Indium	115-2	10139471	10097848	10050152	10095824	0.44	cps
Iron	56-2	5362192	5313645	5369154	5348330	0.57	cps
Iron	57-2	137492	136571	135572	136545	0.70	cps
Iron	54-2	303034	303371	304442	303616	0.24	cps
Krypton	83-1	517	513	573	534	6.31	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	42576	42901	41787	42421	1.35	cps
Lead	207-1	37465	38016	37916	37799	0.78	cps
Lead	208-1	170705	171305	169746	170586	0.46	cps
Lithium	6-1	2114630	2130733	2104836	2116733	0.62	cps
Magnesium	24-2	1224649	1200973	1213495	1213039	0.98	cps
Manganese	55-2	23669	23879	22941	23496	2.10	cps
Molybdenum	94-1	130784	133290	132489	132188	0.97	cps
Molybdenum	95-1	159785	161742	159297	160275	0.81	cps
Molybdenum	96-1	180057	178276	179928	179420	0.55	cps
Molybdenum	97-1	99600	100059	101157	100272	0.80	cps
Molybdenum	98-1	258876	261046	260325	260082	0.42	cps
Neodymium	150-1	27	17	23	22	22.91	cps
Neodymium	150-2	20	13	20	18	21.66	cps
Nickel	60-2	12305	12338	12112	12252	1.00	cps
Phosphorus	31-2	440	507	523	490	9.00	cps
Potassium	39-2	1669201	1639953	1663910	1657688	0.94	cps
Rhodium	103-1	26997368	27133957	26952451	27027925	0.35	cps
Rhodium	103-2	16239494	16268811	16083993	16197433	0.61	cps
Scandium	45-1	14731811	14680113	14632214	14681379	0.34	cps
Scandium	45-2	1494262	1473872	1476683	1481606	0.75	cps
Selenium	82-1	6338	6219	6304	6287	0.97	cps
Selenium	77-2	580	587	513	560	7.24	cps
Selenium	78-2	2557	2560	2647	2588	1.97	cps
Silicon	28-1	1870920	1853961	1887946	1870942	0.91	cps
Silver	107-1	79707	81919	81168	80932	1.39	cps
Silver	109-1	76631	76789	77231	76884	0.40	cps
Sodium	23-2	1942819	1945212	1923673	1937235	0.61	cps
Strontium	86-1	21379	20808	21472	21220	1.69	cps
Strontium	88-1	175747	176013	176475	176078	0.21	cps
Sulfur	34-1	320129	316849	320074	319017	0.59	cps
Terbium	159-1	32247771	32045071	32116574	32136472	0.32	cps
Terbium	159-2	20150612	20371693	20255200	20259168	0.55	cps
Thallium	203-1	52708	52869	52280	52619	0.58	cps
Thallium	205-1	121669	122254	121965	121962	0.24	cps
Tin	118-1	3147	2747	3020	2971	6.88	cps
Titanium	47-1	36838	37851	36938	37209	1.50	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BS	Instrumnet Name :	P7
Client Sample ID :	LCS583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:26:34	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	151354	152838	151494	151895	0.54	cps
Vanadium	51-2	122710	120848	121632	121730	0.77	cps
Yttrium	89-1	40957749	41026006	40961840	40981865	0.09	cps
Yttrium	89-2	11247630	11400265	11138505	11262133	1.17	cps
Zinc	66-2	28838	28504	28958	28767	0.82	cps
Zirconium	90-1	110589	111217	111378	111061	0.38	cps
Zirconium	91-1	24978	25095	24534	24869	1.19	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13526	13743	13569	13613	0.84	cps
Antimony	121-1	62090	60972	61544	61535	0.91	cps
Arsenic	75-2	1813	1850	1750	1805	2.80	cps
Barium	135-1	70942	71297	71401	71213	0.34	cps
Barium	137-1	123376	122129	122256	122587	0.56	cps
Beryllium	9-1	2178	2345	2606	2376	9.08	cps
Bismuth	209-1	17614735	17409488	17573819	17532681	0.62	cps
Bismuth	209-2	12655319	12732636	12678483	12688812	0.31	cps
Bromine	81-1	18034	17794	17821	17883	0.74	cps
Bromine	81-2	153	183	133	157	16.06	cps
Cadmium	108-1	623	497	660	593	14.44	cps
Cadmium	106-1	10807	10767	11014	10863	1.22	cps
Cadmium	111-1	14798	15072	15110	14993	1.14	cps
Calcium	43-1	37820	38472	38970	38421	1.50	cps
Calcium	44-1	673096	680668	673878	675881	0.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29612	29576	29966	29718	0.73	cps
Cobalt	59-2	22707	22457	22884	22683	0.95	cps
Copper	63-2	35425	34413	35967	35268	2.24	cps
Dysprosium	156-1	23	40	23	29	33.32	cps
Dysprosium	156-2	10	10	10	10	0.00	cps
Erbium	164-1	227	210	223	220	4.01	cps
Erbium	164-2	163	120	147	143	15.25	cps
Gadolinium	160-1	150	177	157	161	8.61	cps
Gadolinium	160-2	1083	987	1110	1060	6.12	cps
Holmium	165-1	30567024	30272845	30190911	30343593	0.65	cps
Holmium	165-2	19669470	19988471	19543635	19733858	1.16	cps
Indium	115-1	27530307	27454878	27046497	27343894	0.95	cps
Indium	115-2	10046086	10021484	9984821	10017464	0.31	cps
Iron	56-2	2598960	2606918	2614508	2606795	0.30	cps
Iron	57-2	68405	69058	68816	68760	0.48	cps
Iron	54-2	151893	150645	151334	151291	0.41	cps
Krypton	83-1	613	563	503	560	9.83	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	21283	21207	21290	21260	0.22	cps
Lead	207-1	19070	18613	18376	18686	1.89	cps
Lead	208-1	84468	85282	84637	84796	0.51	cps
Lithium	6-1	2104533	2172907	2128569	2135336	1.62	cps
Magnesium	24-2	573988	573429	577032	574816	0.34	cps
Manganese	55-2	11568	11338	11101	11335	2.06	cps
Molybdenum	94-1	64615	64712	65603	64977	0.84	cps
Molybdenum	95-1	77159	78060	78506	77908	0.88	cps
Molybdenum	96-1	86105	87594	88626	87442	1.45	cps
Molybdenum	97-1	48266	47818	48945	48343	1.17	cps
Molybdenum	98-1	126462	125342	125197	125667	0.55	cps
Neodymium	150-1	33	27	27	29	13.31	cps
Neodymium	150-2	3	7	10	7	50.03	cps
Nickel	60-2	6041	6388	6231	6220	2.79	cps
Phosphorus	31-2	493	453	480	476	4.28	cps
Potassium	39-2	873389	868241	884147	875259	0.93	cps
Rhodium	103-1	27205645	26857535	26760755	26941312	0.87	cps
Rhodium	103-2	16023954	16093800	15834380	15984044	0.84	cps
Scandium	45-1	14725224	14762711	14491877	14659938	1.00	cps
Scandium	45-2	1432629	1472741	1438818	1448062	1.49	cps
Selenium	82-1	3511	3640	3789	3646	3.81	cps
Selenium	77-2	243	257	273	258	5.83	cps
Selenium	78-2	1700	1627	1647	1658	2.29	cps
Silicon	28-1	1726878	1722601	1742653	1730711	0.61	cps
Silver	107-1	39126	40189	39654	39656	1.34	cps
Silver	109-1	36382	37762	38053	37399	2.39	cps
Sodium	23-2	926311	931266	932787	930122	0.36	cps
Strontium	86-1	10874	11101	10450	10809	3.05	cps
Strontium	88-1	86211	85510	86904	86208	0.81	cps
Sulfur	34-1	316811	319787	320400	318999	0.60	cps
Terbium	159-1	31998224	31583798	31098056	31560026	1.43	cps
Terbium	159-2	19646149	20213121	20286032	20048434	1.75	cps
Thallium	203-1	25474	25958	25844	25759	0.98	cps
Thallium	205-1	59111	60443	60812	60122	1.49	cps
Tin	118-1	2764	2444	2690	2632	6.37	cps
Titanium	47-1	18211	18154	18258	18208	0.28	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	PB164583BSD	Instrumnet Name :	P7
Client Sample ID :	LCSD583	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:29:48	DataFile Name :	025LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73116	74095	74701	73971	1.08	cps
Vanadium	51-2	59781	59172	59319	59424	0.53	cps
Yttrium	89-1	40970577	40130032	39989559	40363389	1.31	cps
Yttrium	89-2	11122023	11180857	11092386	11131755	0.40	cps
Zinc	66-2	15044	14874	14827	14915	0.77	cps
Zirconium	90-1	56411	54598	55806	55605	1.66	cps
Zirconium	91-1	12292	12525	12712	12510	1.68	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6430896	6386651	6290386	6369311	1.13	cps
Antimony	121-1	1363	1613	1737	1571	12.11	cps
Arsenic	75-2	6058	5841	6161	6020	2.71	cps
Barium	135-1	1416787	1392046	1395981	1401605	0.95	cps
Barium	137-1	2454744	2444353	2393592	2430896	1.35	cps
Beryllium	9-1	2400	2084	2161	2215	7.45	cps
Bismuth	209-1	18031058	17858902	17836924	17908962	0.59	cps
Bismuth	209-2	12486596	12241015	12175728	12301113	1.33	cps
Bromine	81-1	23205	23893	24320	23806	2.36	cps
Bromine	81-2	1553	1657	1593	1601	3.25	cps
Cadmium	108-1	200	170	253	208	20.32	cps
Cadmium	106-1	11251	11098	10691	11013	2.63	cps
Cadmium	111-1	8452	8346	8046	8282	2.54	cps
Calcium	43-1	1048324	1022607	1001595	1024175	2.29	cps
Calcium	44-1	16601062	16107290	15863835	16190729	2.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	262078	257174	255840	258364	1.27	cps
Cobalt	59-2	301816	298687	297203	299235	0.79	cps
Copper	63-2	4353770	4367395	4201345	4307503	2.14	cps
Dysprosium	156-1	169136	170202	166610	168649	1.09	cps
Dysprosium	156-2	115118	115877	115333	115442	0.34	cps
Erbium	164-1	123732	126833	124559	125041	1.28	cps
Erbium	164-2	79152	78217	78412	78594	0.63	cps
Gadolinium	160-1	180518	184485	181563	182189	1.13	cps
Gadolinium	160-2	119988	118846	119581	119472	0.48	cps
Holmium	165-1	32011160	31179329	32021855	31737448	1.52	cps
Holmium	165-2	20055667	19823671	19604408	19827915	1.14	cps
Indium	115-1	28425672	27937942	27893303	28085639	1.05	cps
Indium	115-2	10098467	9865514	9857058	9940346	1.38	cps
Iron	56-2	163011941	161280668	162262978	162185195	0.54	cps
Iron	57-2	4086281	4017247	3925197	4009575	2.02	cps
Iron	54-2	8899088	8890934	8748738	8846253	0.96	cps
Krypton	83-1	663	733	650	682	6.56	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	279255	279693	283322	280757	0.80	cps
Lead	207-1	233307	233755	232667	233243	0.23	cps
Lead	208-1	1086504	1086492	1079169	1084055	0.39	cps
Lithium	6-1	1920782	1696199	1510349	1709110	12.03	cps
Magnesium	24-2	10481815	10430036	10400835	10437562	0.39	cps
Manganese	55-2	6335138	6393177	6256020	6328112	1.09	cps
Molybdenum	94-1	37475	37488	37190	37384	0.45	cps
Molybdenum	95-1	1240	1053	1297	1197	10.64	cps
Molybdenum	96-1	8709	8489	8659	8619	1.34	cps
Molybdenum	97-1	767	693	713	724	5.23	cps
Molybdenum	98-1	1613	1720	1577	1637	4.55	cps
Neodymium	150-1	190162	193366	191555	191694	0.84	cps
Neodymium	150-2	107614	105242	104007	105621	1.74	cps
Nickel	60-2	158180	154853	154413	155815	1.32	cps
Phosphorus	31-2	31583	31295	30557	31145	1.70	cps
Potassium	39-2	2483812	2448558	2422644	2451672	1.25	cps
Rhodium	103-1	27453292	26906345	26836480	27065372	1.25	cps
Rhodium	103-2	16359870	16362010	16211878	16311253	0.53	cps
Scandium	45-1	15386152	14462308	14153159	14667206	4.37	cps
Scandium	45-2	1499538	1475762	1462665	1479322	1.26	cps
Selenium	82-1	1611	1375	1454	1480	8.10	cps
Selenium	77-2	637	557	650	614	8.22	cps
Selenium	78-2	1097	1103	1243	1148	7.22	cps
Silicon	28-1	60713251	58402667	55668399	58261439	4.33	cps
Silver	107-1	9343	9100	9023	9155	1.83	cps
Silver	109-1	8663	8419	7936	8339	4.44	cps
Sodium	23-2	1124657	1144065	1095996	1121573	2.16	cps
Strontium	86-1	478475	482869	477440	479594	0.60	cps
Strontium	88-1	4268197	4300657	4250919	4273258	0.59	cps
Sulfur	34-1	299495	283407	269063	283988	5.36	cps
Terbium	159-1	33306097	32990590	32560800	32952496	1.14	cps
Terbium	159-2	20042532	19986220	20254524	20094426	0.70	cps
Thallium	203-1	7319	6705	6945	6990	4.42	cps
Thallium	205-1	17438	16327	15869	16545	4.88	cps
Tin	118-1	31545	30893	32140	31526	1.98	cps
Titanium	47-1	263557	261571	254549	259892	1.82	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:33:01	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	99045	99616	95137	97933	2.49	cps
Vanadium	51-2	311700	312362	307665	310576	0.82	cps
Yttrium	89-1	44137359	42887414	43369271	43464682	1.45	cps
Yttrium	89-2	11782661	11576066	11564655	11641128	1.05	cps
Zinc	66-2	144525	144158	142590	143758	0.71	cps
Zirconium	90-1	101199	101964	99712	100958	1.13	cps
Zirconium	91-1	22758	22421	22805	22661	0.92	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6753969	6856118	6754582	6788223	0.87	cps
Antimony	121-1	1670	1850	1873	1798	6.19	cps
Arsenic	75-2	8229	8046	8409	8228	2.21	cps
Barium	135-1	1426989	1417345	1409930	1418088	0.60	cps
Barium	137-1	2482566	2488020	2519213	2496600	0.79	cps
Beryllium	9-1	2478	2250	2100	2276	8.36	cps
Bismuth	209-1	17354044	17572591	17511591	17479409	0.65	cps
Bismuth	209-2	11996328	12071085	11951103	12006172	0.50	cps
Bromine	81-1	21302	22187	22234	21907	2.40	cps
Bromine	81-2	1380	1517	1200	1366	11.63	cps
Cadmium	108-1	403	373	350	376	7.12	cps
Cadmium	106-1	10854	10080	10127	10354	4.19	cps
Cadmium	111-1	8016	7448	7604	7689	3.81	cps
Calcium	43-1	1329740	1306671	1275459	1303956	2.09	cps
Calcium	44-1	21625457	21339289	20384828	21116525	3.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	265920	263871	263488	264426	0.49	cps
Cobalt	59-2	339532	338665	333233	337144	1.01	cps
Copper	63-2	8794712	8679260	8698496	8724156	0.71	cps
Dysprosium	156-1	186376	188661	185000	186679	0.99	cps
Dysprosium	156-2	127805	128791	127123	127906	0.66	cps
Erbium	164-1	139816	140913	139523	140084	0.52	cps
Erbium	164-2	88659	88112	87321	88031	0.76	cps
Gadolinium	160-1	202954	203995	201105	202685	0.72	cps
Gadolinium	160-2	134912	133416	131060	133129	1.46	cps
Holmium	165-1	31371158	31060204	31122500	31184621	0.53	cps
Holmium	165-2	19651608	19533856	19301554	19495672	0.91	cps
Indium	115-1	27428545	26583195	26857247	26956329	1.60	cps
Indium	115-2	9774901	9563666	9530403	9622990	1.38	cps
Iron	56-2	189506511	189718771	186820811	188682031	0.86	cps
Iron	57-2	4650281	4687527	4594112	4643973	1.01	cps
Iron	54-2	10315600	10248298	10137304	10233734	0.88	cps
Krypton	83-1	660	693	740	698	5.76	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	300881	301504	296754	299713	0.86	cps
Lead	207-1	247561	245034	245796	246130	0.53	cps
Lead	208-1	1149315	1153847	1150935	1151366	0.20	cps
Lithium	6-1	1460437	1332648	1294132	1362406	6.39	cps
Magnesium	24-2	11508046	11406987	11105840	11340291	1.85	cps
Manganese	55-2	7909846	7883628	7713443	7835639	1.36	cps
Molybdenum	94-1	52574	54330	53825	53576	1.69	cps
Molybdenum	95-1	1190	1183	1197	1190	0.56	cps
Molybdenum	96-1	11708	11438	11561	11569	1.17	cps
Molybdenum	97-1	707	780	777	754	5.49	cps
Molybdenum	98-1	1523	1733	1703	1653	6.87	cps
Neodymium	150-1	211072	211733	205798	209534	1.55	cps
Neodymium	150-2	114564	115280	115364	115069	0.38	cps
Nickel	60-2	175561	176019	173191	174924	0.87	cps
Phosphorus	31-2	32434	32321	31439	32065	1.70	cps
Potassium	39-2	2670341	2697902	2646249	2671497	0.97	cps
Rhodium	103-1	26532566	26127697	26092555	26250939	0.93	cps
Rhodium	103-2	16205614	15929649	15971880	16035714	0.93	cps
Scandium	45-1	13890691	13138111	12984069	13337624	3.64	cps
Scandium	45-2	1465831	1433252	1453797	1450960	1.14	cps
Selenium	82-1	1413	1407	1363	1394	1.97	cps
Selenium	77-2	647	700	680	676	3.99	cps
Selenium	78-2	1183	1113	1083	1127	4.55	cps
Silicon	28-1	46892811	47821851	46516214	47076959	1.43	cps
Silver	107-1	13933	14290	14624	14283	2.42	cps
Silver	109-1	12569	13506	13226	13100	3.67	cps
Sodium	23-2	985913	977381	974187	979161	0.62	cps
Strontium	86-1	512682	506404	512953	510680	0.73	cps
Strontium	88-1	4542720	4534484	4560737	4545980	0.30	cps
Sulfur	34-1	256726	251020	249166	252304	1.56	cps
Terbium	159-1	32584404	32417890	31969175	32323823	0.98	cps
Terbium	159-2	20237643	19803144	19993731	20011506	1.09	cps
Thallium	203-1	6522	6155	6758	6478	4.69	cps
Thallium	205-1	14661	14791	15129	14861	1.62	cps
Tin	118-1	15679	15809	15876	15788	0.63	cps
Titanium	47-1	293965	291497	283687	289716	1.85	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:36:08	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	141588	143203	142238	142343	0.57	cps
Vanadium	51-2	364758	363951	358852	362520	0.88	cps
Yttrium	89-1	42784086	41780541	41342670	41969099	1.76	cps
Yttrium	89-2	11547799	11339378	11411090	11432756	0.93	cps
Zinc	66-2	167525	164701	165877	166034	0.85	cps
Zirconium	90-1	145665	144430	142170	144088	1.23	cps
Zirconium	91-1	32703	32149	32342	32398	0.87	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5035569	5054729	4940774	5010357	1.22	cps
Antimony	121-1	1410	1690	1633	1578	9.38	cps
Arsenic	75-2	6001	5761	5671	5811	2.94	cps
Barium	135-1	1296023	1298908	1292249	1295727	0.26	cps
Barium	137-1	2237845	2250006	2212585	2233479	0.85	cps
Beryllium	9-1	1689	1695	1489	1624	7.21	cps
Bismuth	209-1	17968518	17541331	17510613	17673488	1.45	cps
Bismuth	209-2	12222409	12179099	12149317	12183608	0.30	cps
Bromine	81-1	20805	22200	22277	21761	3.81	cps
Bromine	81-2	1350	1323	1453	1376	4.99	cps
Cadmium	108-1	237	213	207	219	7.20	cps
Cadmium	106-1	10514	9947	9793	10085	3.76	cps
Cadmium	111-1	7711	7310	7164	7395	3.83	cps
Calcium	43-1	826723	816919	809284	817642	1.07	cps
Calcium	44-1	13256656	13128033	12900194	13094961	1.38	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	207528	208200	205914	207214	0.57	cps
Cobalt	59-2	241660	237535	239113	239436	0.87	cps
Copper	63-2	6195504	6046668	6109429	6117200	1.22	cps
Dysprosium	156-1	174820	174679	174807	174769	0.04	cps
Dysprosium	156-2	117864	118898	118213	118325	0.44	cps
Erbium	164-1	128656	126698	127288	127547	0.79	cps
Erbium	164-2	80262	80141	78131	79511	1.51	cps
Gadolinium	160-1	189183	188694	188056	188644	0.30	cps
Gadolinium	160-2	123781	124787	124659	124409	0.44	cps
Holmium	165-1	32157982	30391110	30712858	31087316	3.03	cps
Holmium	165-2	19698713	19716765	19327956	19581145	1.12	cps
Indium	115-1	27923156	27043959	27439145	27468753	1.60	cps
Indium	115-2	9626594	9704301	9521014	9617303	0.96	cps
Iron	56-2	124950915	125365681	124461598	124926065	0.36	cps
Iron	57-2	3110563	3147211	3101562	3119779	0.78	cps
Iron	54-2	6852118	6961073	6842199	6885130	0.96	cps
Krypton	83-1	713	657	723	698	5.15	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	262643	267041	265381	265022	0.84	cps
Lead	207-1	222043	214712	218491	218415	1.68	cps
Lead	208-1	1017720	1019512	1009293	1015509	0.54	cps
Lithium	6-1	1418404	1402116	1312671	1377730	4.13	cps
Magnesium	24-2	8281317	8226051	8163705	8223691	0.72	cps
Manganese	55-2	4989444	4951851	4983501	4974932	0.41	cps
Molybdenum	94-1	41896	40914	41044	41285	1.29	cps
Molybdenum	95-1	820	863	900	861	4.65	cps
Molybdenum	96-1	9033	8749	8953	8912	1.64	cps
Molybdenum	97-1	480	477	603	520	13.88	cps
Molybdenum	98-1	1223	1190	1227	1213	1.67	cps
Neodymium	150-1	202477	200064	199166	200569	0.85	cps
Neodymium	150-2	111171	109816	110341	110443	0.62	cps
Nickel	60-2	122952	122109	121372	122144	0.65	cps
Phosphorus	31-2	30891	30527	30110	30509	1.28	cps
Potassium	39-2	2195962	2190752	2141475	2176063	1.38	cps
Rhodium	103-1	26555005	25673247	26287464	26171905	1.73	cps
Rhodium	103-2	15976249	16109521	15781446	15955739	1.03	cps
Scandium	45-1	13342435	12862231	13010135	13071601	1.88	cps
Scandium	45-2	1427812	1396096	1416905	1413604	1.14	cps
Selenium	82-1	1252	1297	1213	1254	3.35	cps
Selenium	77-2	623	640	643	636	1.69	cps
Selenium	78-2	1130	1083	1060	1091	3.27	cps
Silicon	28-1	45026736	42935866	42434743	43465782	3.16	cps
Silver	107-1	11431	11508	11168	11369	1.57	cps
Silver	109-1	10721	11058	11111	10963	1.93	cps
Sodium	23-2	950590	949311	942355	947418	0.47	cps
Strontium	86-1	469572	466552	463106	466410	0.69	cps
Strontium	88-1	4135423	4115964	4018602	4089997	1.53	cps
Sulfur	34-1	244986	235673	230594	237085	3.08	cps
Terbium	159-1	32788227	31898669	32556444	32414446	1.42	cps
Terbium	159-2	20000265	19973639	20030646	20001517	0.14	cps
Thallium	203-1	4774	4888	5008	4890	2.39	cps
Thallium	205-1	11355	11095	11175	11208	1.19	cps
Tin	118-1	14057	14027	13480	13855	2.35	cps
Titanium	47-1	218118	213523	208501	213381	2.25	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:39:11	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	97538	96799	96114	96817	0.74	cps
Vanadium	51-2	261746	258020	256631	258799	1.02	cps
Yttrium	89-1	42844606	40769266	40714292	41442721	2.93	cps
Yttrium	89-2	11085555	11388137	11282532	11252075	1.36	cps
Zinc	66-2	119352	117239	116960	117850	1.11	cps
Zirconium	90-1	113938	112382	110072	112131	1.73	cps
Zirconium	91-1	24975	25492	24935	25134	1.24	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9010050	8901760	8777332	8896381	1.31	cps
Antimony	121-1	1587	1513	1730	1610	6.85	cps
Arsenic	75-2	46797	46419	46636	46617	0.41	cps
Barium	135-1	1904403	1915867	1889467	1903246	0.70	cps
Barium	137-1	3280590	3375644	3147469	3267901	3.51	cps
Beryllium	9-1	2572	2389	2445	2469	3.81	cps
Bismuth	209-1	18217680	17858236	17846623	17974179	1.17	cps
Bismuth	209-2	12234729	12087069	12070544	12130781	0.75	cps
Bromine	81-1	21729	22641	22374	22248	2.11	cps
Bromine	81-2	1607	1587	1637	1610	1.56	cps
Cadmium	108-1	437	410	470	439	6.85	cps
Cadmium	106-1	10714	10504	10237	10485	2.28	cps
Cadmium	111-1	9851	9596	9344	9597	2.64	cps
Calcium	43-1	1821054	1802616	1735508	1786392	2.52	cps
Calcium	44-1	29255073	28860895	27791184	28635717	2.65	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	407604	396619	400476	401566	1.39	cps
Cobalt	59-2	458073	455888	450318	454760	0.88	cps
Copper	63-2	84908635	83919617	84223955	84350736	0.60	cps
Dysprosium	156-1	233556	236068	231861	233828	0.91	cps
Dysprosium	156-2	160685	159430	158483	159533	0.69	cps
Erbium	164-1	177043	179363	175141	177182	1.19	cps
Erbium	164-2	111591	109734	109210	110178	1.14	cps
Gadolinium	160-1	254748	255231	251839	253939	0.72	cps
Gadolinium	160-2	167088	165229	164346	165554	0.85	cps
Holmium	165-1	31641970	31074919	30943519	31220136	1.19	cps
Holmium	165-2	19850092	19743644	19411529	19668422	1.16	cps
Indium	115-1	27430866	26897516	26966822	27098401	1.07	cps
Indium	115-2	9587747	9442416	9548358	9526174	0.79	cps
Iron	56-2	241024570	244047456	239121463	241397830	1.03	cps
Iron	57-2	6095234	5970783	5938674	6001564	1.38	cps
Iron	54-2	13152886	13014326	13114488	13093900	0.55	cps
Krypton	83-1	793	780	780	784	0.98	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	399546	394184	395259	396330	0.72	cps
Lead	207-1	326552	326664	323769	325662	0.50	cps
Lead	208-1	1534177	1535600	1516515	1528764	0.70	cps
Lithium	6-1	1384509	1264165	1216068	1288247	6.74	cps
Magnesium	24-2	14866142	14832087	14537499	14745243	1.23	cps
Manganese	55-2	11417460	11336392	11298210	11350687	0.54	cps
Molybdenum	94-1	56836	57616	57445	57299	0.72	cps
Molybdenum	95-1	1577	1670	1520	1589	4.77	cps
Molybdenum	96-1	13033	13456	12856	13115	2.35	cps
Molybdenum	97-1	983	963	830	926	9.01	cps
Molybdenum	98-1	1833	2154	1897	1961	8.64	cps
Neodymium	150-1	266688	267172	262546	265469	0.96	cps
Neodymium	150-2	144822	145300	143229	144450	0.75	cps
Nickel	60-2	230357	228445	226756	228519	0.79	cps
Phosphorus	31-2	39538	38675	38278	38830	1.66	cps
Potassium	39-2	3184091	3123624	3140117	3149277	0.99	cps
Rhodium	103-1	26233898	26076204	25301100	25870401	1.93	cps
Rhodium	103-2	15673457	15822099	15638139	15711232	0.62	cps
Scandium	45-1	13448129	12670170	12496914	12871737	3.94	cps
Scandium	45-2	1429932	1419807	1398783	1416174	1.12	cps
Selenium	82-1	1450	1405	1407	1421	1.79	cps
Selenium	77-2	847	867	847	853	1.35	cps
Selenium	78-2	1230	1283	1287	1267	2.51	cps
Silicon	28-1	54389231	54156124	52150026	53565127	2.30	cps
Silver	107-1	67057	66639	66053	66583	0.76	cps
Silver	109-1	62718	63050	62394	62721	0.52	cps
Sodium	23-2	1331879	1302622	1293669	1309390	1.53	cps
Strontium	86-1	676787	676343	672150	675093	0.38	cps
Strontium	88-1	5983877	5949807	5986008	5973231	0.34	cps
Sulfur	34-1	260783	253985	249022	254597	2.32	cps
Terbium	159-1	32874887	32717778	32611517	32734727	0.40	cps
Terbium	159-2	20106374	19554386	19844660	19835140	1.39	cps
Thallium	203-1	6058	6622	6662	6447	5.24	cps
Thallium	205-1	15496	15075	14818	15130	2.26	cps
Tin	118-1	24643	19236	18889	20923	15.42	cps
Titanium	47-1	308785	306557	299104	304815	1.66	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:42:17	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	171868	171906	167666	170480	1.43	cps
Vanadium	51-2	462633	458359	456315	459102	0.70	cps
Yttrium	89-1	42117796	42293046	41486863	41965902	1.01	cps
Yttrium	89-2	11202849	11190491	11011935	11135092	0.96	cps
Zinc	66-2	221579	217480	219440	219500	0.93	cps
Zirconium	90-1	155964	154116	151651	153910	1.41	cps
Zirconium	91-1	34227	33999	33746	33991	0.71	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5582835	5610875	5591401	5595037	0.26	cps
Antimony	121-1	1320	1407	1417	1381	3.85	cps
Arsenic	75-2	7125	6612	6905	6881	3.74	cps
Barium	135-1	1449594	1460204	1439416	1449738	0.72	cps
Barium	137-1	2525294	2502373	2537473	2521713	0.71	cps
Beryllium	9-1	2111	1845	1961	1972	6.78	cps
Bismuth	209-1	18472502	17438978	17591114	17834198	3.13	cps
Bismuth	209-2	12479208	12164884	12269048	12304380	1.30	cps
Bromine	81-1	21773	22013	23001	22262	2.92	cps
Bromine	81-2	1613	1717	1760	1697	4.44	cps
Cadmium	108-1	257	223	297	259	14.18	cps
Cadmium	106-1	10344	10087	9893	10108	2.23	cps
Cadmium	111-1	7768	7755	7461	7661	2.26	cps
Calcium	43-1	993034	981007	973696	982579	0.99	cps
Calcium	44-1	15900874	15702617	15486530	15696674	1.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	246096	248367	243146	245870	1.06	cps
Cobalt	59-2	262726	262449	262067	262414	0.13	cps
Copper	63-2	3834848	3794529	3844013	3824463	0.69	cps
Dysprosium	156-1	185073	187343	184634	185683	0.78	cps
Dysprosium	156-2	126006	124623	123128	124586	1.16	cps
Erbium	164-1	139808	142583	140018	140803	1.10	cps
Erbium	164-2	86717	86435	86469	86540	0.18	cps
Gadolinium	160-1	204461	204263	203414	204046	0.27	cps
Gadolinium	160-2	132823	133288	131720	132610	0.61	cps
Holmium	165-1	32377342	31624717	31763935	31921998	1.25	cps
Holmium	165-2	19754034	19620059	19488391	19620828	0.68	cps
Indium	115-1	27917047	27167001	27120125	27401391	1.63	cps
Indium	115-2	9376874	9354695	9400335	9377301	0.24	cps
Iron	56-2	141934891	140243418	138980285	140386198	1.06	cps
Iron	57-2	3488669	3528415	3448064	3488383	1.15	cps
Iron	54-2	7725602	7602894	7668417	7665638	0.80	cps
Krypton	83-1	670	600	600	623	6.48	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	300436	305023	300034	301831	0.92	cps
Lead	207-1	254871	250226	250398	251832	1.05	cps
Lead	208-1	1169640	1167887	1162707	1166745	0.31	cps
Lithium	6-1	1479928	1338332	1333457	1383906	6.01	cps
Magnesium	24-2	9020494	9041562	9047926	9036661	0.16	cps
Manganese	55-2	5718473	5693741	5785380	5732531	0.83	cps
Molybdenum	94-1	35323	35159	34250	34910	1.66	cps
Molybdenum	95-1	1017	1010	1010	1012	0.38	cps
Molybdenum	96-1	8009	8402	7956	8122	3.01	cps
Molybdenum	97-1	643	623	640	636	1.69	cps
Molybdenum	98-1	1397	1443	1473	1438	2.69	cps
Neodymium	150-1	202913	202743	202808	202822	0.04	cps
Neodymium	150-2	109219	109706	109531	109485	0.23	cps
Nickel	60-2	139606	137914	136760	138093	1.04	cps
Phosphorus	31-2	30587	30143	29241	29991	2.29	cps
Potassium	39-2	2459936	2412737	2386958	2419877	1.53	cps
Rhodium	103-1	26529812	25356648	25792062	25892841	2.29	cps
Rhodium	103-2	16005531	15621682	15648227	15758480	1.36	cps
Scandium	45-1	13485602	12518034	12721083	12908240	3.95	cps
Scandium	45-2	1369448	1348693	1361656	1359932	0.77	cps
Selenium	82-1	1396	1394	1333	1374	2.58	cps
Selenium	77-2	737	717	657	703	5.92	cps
Selenium	78-2	1030	1153	1010	1064	7.29	cps
Silicon	28-1	50953036	49149148	48874686	49658956	2.27	cps
Silver	107-1	5841	5624	5521	5662	2.88	cps
Silver	109-1	5048	4884	5141	5024	2.59	cps
Sodium	23-2	961561	958789	952115	957488	0.51	cps
Strontium	86-1	548559	547385	545542	547162	0.28	cps
Strontium	88-1	4828667	4799445	4836467	4821526	0.40	cps
Sulfur	34-1	240765	230865	230320	233983	2.51	cps
Terbium	159-1	33366860	33377770	32748326	33164318	1.09	cps
Terbium	159-2	20000208	20022103	19886739	19969683	0.36	cps
Thallium	203-1	4394	4577	4491	4487	2.04	cps
Thallium	205-1	11068	10688	10568	10774	2.42	cps
Tin	118-1	16169	15742	15735	15882	1.57	cps
Titanium	47-1	220149	216951	210862	215987	2.18	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:45:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	115056	115785	114605	115149	0.52	cps
Vanadium	51-2	306988	303044	304352	304795	0.66	cps
Yttrium	89-1	42144707	40454618	40743949	41114425	2.20	cps
Yttrium	89-2	11049789	10987108	10852779	10963225	0.92	cps
Zinc	66-2	128070	128037	128362	128156	0.14	cps
Zirconium	90-1	93378	95052	93492	93974	1.00	cps
Zirconium	91-1	20905	21225	20745	20958	1.17	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5873362	5771417	5773760	5806179	1.00	cps
Antimony	121-1	1740	1817	1607	1721	6.17	cps
Arsenic	75-2	6448	6458	6411	6439	0.38	cps
Barium	135-1	1617234	1573595	1564265	1585031	1.78	cps
Barium	137-1	2750834	2765095	2712952	2742960	0.98	cps
Beryllium	9-1	2134	1906	1917	1985	6.47	cps
Bismuth	209-1	18600350	18120967	18415893	18379070	1.32	cps
Bismuth	209-2	12420706	12558481	12514172	12497786	0.56	cps
Bromine	81-1	22307	23225	23405	22979	2.56	cps
Bromine	81-2	1733	1750	1667	1717	2.57	cps
Cadmium	108-1	180	243	213	212	14.93	cps
Cadmium	106-1	10300	9893	9810	10001	2.62	cps
Cadmium	111-1	7681	7338	7254	7425	3.04	cps
Calcium	43-1	1013143	1006380	991164	1003563	1.12	cps
Calcium	44-1	16317853	16350867	15448599	16039106	3.19	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	219154	217015	217279	217816	0.54	cps
Cobalt	59-2	264310	261910	263786	263335	0.48	cps
Copper	63-2	4142660	4128704	4194096	4155153	0.83	cps
Dysprosium	156-1	194536	193052	193944	193844	0.39	cps
Dysprosium	156-2	129022	129680	128462	129055	0.47	cps
Erbium	164-1	147557	144805	144603	145655	1.13	cps
Erbium	164-2	90169	88538	90735	89814	1.27	cps
Gadolinium	160-1	212853	214086	208838	211925	1.29	cps
Gadolinium	160-2	140237	137217	139450	138968	1.13	cps
Holmium	165-1	32617498	31739114	31873300	32076637	1.48	cps
Holmium	165-2	19775746	20018609	19874645	19889667	0.61	cps
Indium	115-1	27708926	27134566	26531821	27125104	2.17	cps
Indium	115-2	9389974	9403363	9460627	9417988	0.40	cps
Iron	56-2	137483905	134637505	134960761	135694057	1.15	cps
Iron	57-2	3419298	3383263	3384965	3395842	0.60	cps
Iron	54-2	7530724	7413888	7366134	7436916	1.14	cps
Krypton	83-1	697	580	643	640	9.13	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	333573	330910	329239	331241	0.66	cps
Lead	207-1	273221	273167	271787	272725	0.30	cps
Lead	208-1	1278697	1287032	1273096	1279609	0.55	cps
Lithium	6-1	1448403	1314164	1383296	1381954	4.86	cps
Magnesium	24-2	9106302	9067966	9076658	9083642	0.22	cps
Manganese	55-2	5918436	5942936	5989351	5950241	0.61	cps
Molybdenum	94-1	37671	36352	35854	36625	2.56	cps
Molybdenum	95-1	913	997	980	963	4.58	cps
Molybdenum	96-1	8056	8359	8092	8169	2.03	cps
Molybdenum	97-1	480	513	567	520	8.41	cps
Molybdenum	98-1	1253	1247	1337	1279	3.92	cps
Neodymium	150-1	208306	209993	208324	208875	0.46	cps
Neodymium	150-2	113180	113412	112249	112947	0.54	cps
Nickel	60-2	136243	133623	133417	134427	1.17	cps
Phosphorus	31-2	32748	32197	32030	32325	1.16	cps
Potassium	39-2	2347479	2296515	2296744	2313579	1.27	cps
Rhodium	103-1	26152174	25645087	26012480	25936580	1.01	cps
Rhodium	103-2	15691125	15702336	15685633	15693031	0.05	cps
Scandium	45-1	13204187	12746167	12613651	12854668	2.41	cps
Scandium	45-2	1374601	1349669	1345486	1356585	1.16	cps
Selenium	82-1	1189	1403	1153	1248	10.82	cps
Selenium	77-2	767	700	683	717	6.15	cps
Selenium	78-2	950	950	1090	997	8.11	cps
Silicon	28-1	53101859	51613701	50861029	51858863	2.20	cps
Silver	107-1	10467	10107	9763	10112	3.48	cps
Silver	109-1	9590	9580	9573	9581	0.09	cps
Sodium	23-2	992304	980600	987712	986872	0.60	cps
Strontium	86-1	550933	550574	545226	548911	0.58	cps
Strontium	88-1	4873003	4884243	4836434	4864560	0.51	cps
Sulfur	34-1	236577	231619	226705	231634	2.13	cps
Terbium	159-1	33198523	32915743	33105787	33073351	0.44	cps
Terbium	159-2	20411425	20106392	20370773	20296197	0.82	cps
Thallium	203-1	4207	4354	4097	4220	3.05	cps
Thallium	205-1	10137	9800	10024	9987	1.72	cps
Tin	118-1	16286	15882	15595	15921	2.18	cps
Titanium	47-1	174248	170948	167311	170836	2.03	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:48:26	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	136461	137516	135162	136379	0.86	cps
Vanadium	51-2	278125	275202	274348	275892	0.72	cps
Yttrium	89-1	41751049	40575789	41371247	41232695	1.45	cps
Yttrium	89-2	10807492	10929709	10995275	10910825	0.87	cps
Zinc	66-2	155692	154574	155029	155098	0.36	cps
Zirconium	90-1	97512	98158	96843	97504	0.67	cps
Zirconium	91-1	22200	21663	21145	21669	2.43	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5957521	5937243	5898814	5931193	0.50	cps
Antimony	121-1	1137	1190	1440	1256	12.90	cps
Arsenic	75-2	6902	6948	6925	6925	0.34	cps
Barium	135-1	1695171	1697172	1678545	1690296	0.60	cps
Barium	137-1	2898732	2909786	2859615	2889378	0.91	cps
Beryllium	9-1	2172	2156	2161	2163	0.39	cps
Bismuth	209-1	18756294	18443532	18510068	18569965	0.89	cps
Bismuth	209-2	12761190	12568491	12558231	12629304	0.91	cps
Bromine	81-1	22721	23288	24003	23337	2.75	cps
Bromine	81-2	1837	1840	1850	1842	0.38	cps
Cadmium	108-1	157	257	257	223	25.85	cps
Cadmium	106-1	10320	9890	9720	9977	3.10	cps
Cadmium	111-1	7688	7270	7321	7426	3.07	cps
Calcium	43-1	1100251	1072238	1073817	1082102	1.45	cps
Calcium	44-1	17507841	17474691	17013771	17332101	1.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	247049	245036	244461	245515	0.55	cps
Cobalt	59-2	292148	293550	290487	292062	0.53	cps
Copper	63-2	5482252	5464741	5442195	5463063	0.37	cps
Dysprosium	156-1	210544	212179	214060	212261	0.83	cps
Dysprosium	156-2	142763	143019	143360	143048	0.21	cps
Erbium	164-1	160508	158245	158208	158987	0.83	cps
Erbium	164-2	98742	95691	95728	96721	1.81	cps
Gadolinium	160-1	233129	234580	233461	233724	0.33	cps
Gadolinium	160-2	149623	150863	150937	150474	0.49	cps
Holmium	165-1	32358185	32475610	32429116	32420970	0.18	cps
Holmium	165-2	20009954	19875312	19780779	19888682	0.58	cps
Indium	115-1	27979379	27006938	26985799	27324038	2.08	cps
Indium	115-2	9405481	9404815	9264156	9358150	0.87	cps
Iron	56-2	150443054	148340528	149635324	149472969	0.71	cps
Iron	57-2	3790825	3758271	3694927	3748008	1.30	cps
Iron	54-2	8217941	8149102	8108970	8158671	0.68	cps
Krypton	83-1	700	600	657	652	7.69	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	349243	348323	344879	347482	0.66	cps
Lead	207-1	289988	291190	282359	287846	1.66	cps
Lead	208-1	1347822	1356319	1338819	1347653	0.65	cps
Lithium	6-1	1500371	1309900	1365731	1392001	7.03	cps
Magnesium	24-2	9898403	9862891	9880927	9880740	0.18	cps
Manganese	55-2	6700071	6593806	6637079	6643652	0.80	cps
Molybdenum	94-1	43140	43301	42512	42984	0.97	cps
Molybdenum	95-1	997	1053	1067	1039	3.58	cps
Molybdenum	96-1	9567	9080	9373	9340	2.63	cps
Molybdenum	97-1	570	600	613	594	3.73	cps
Molybdenum	98-1	1247	1457	1293	1332	8.28	cps
Neodymium	150-1	230949	232136	230902	231329	0.30	cps
Neodymium	150-2	124995	124117	125371	124828	0.52	cps
Nickel	60-2	150588	150140	150736	150488	0.21	cps
Phosphorus	31-2	34840	34021	33717	34193	1.70	cps
Potassium	39-2	2417083	2411630	2395501	2408072	0.47	cps
Rhodium	103-1	25768395	25492235	25557661	25606097	0.56	cps
Rhodium	103-2	15605716	15599241	15536255	15580404	0.25	cps
Scandium	45-1	13077514	12554189	12587052	12739585	2.30	cps
Scandium	45-2	1320245	1333361	1336518	1330041	0.65	cps
Selenium	82-1	1382	1440	1300	1374	5.10	cps
Selenium	77-2	750	733	707	730	2.99	cps
Selenium	78-2	1203	1050	1090	1115	7.14	cps
Silicon	28-1	53336161	50229376	49804381	51123306	3.77	cps
Silver	107-1	7912	8029	7779	7907	1.58	cps
Silver	109-1	7562	7499	7509	7523	0.45	cps
Sodium	23-2	1158184	1113059	1140575	1137273	2.00	cps
Strontium	86-1	575827	567130	572106	571688	0.76	cps
Strontium	88-1	5007656	5035989	5014282	5019309	0.30	cps
Sulfur	34-1	234905	228506	231928	231780	1.38	cps
Terbium	159-1	34005877	33665209	33221265	33630783	1.17	cps
Terbium	159-2	20004396	20359619	20055901	20139972	0.95	cps
Thallium	203-1	4494	4581	4531	4535	0.96	cps
Thallium	205-1	10694	10985	10811	10830	1.35	cps
Tin	118-1	14921	15462	14351	14911	3.73	cps
Titanium	47-1	202622	198451	195452	198842	1.81	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:51:30	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	148087	149476	147490	148351	0.69	cps
Vanadium	51-2	305647	302056	298096	301933	1.25	cps
Yttrium	89-1	41599541	40592566	40347775	40846627	1.62	cps
Yttrium	89-2	10745317	10829859	10763950	10779708	0.41	cps
Zinc	66-2	144320	143432	141271	143007	1.10	cps
Zirconium	90-1	117647	115228	114381	115752	1.46	cps
Zirconium	91-1	26017	26107	25723	25949	0.77	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4331627	4340424	4265620	4312557	0.95	cps
Antimony	121-1	1023	817	830	890	13.00	cps
Arsenic	75-2	5748	5458	5805	5670	3.28	cps
Barium	135-1	1401019	1404020	1390048	1398363	0.53	cps
Barium	137-1	2458411	2463846	2462704	2461654	0.12	cps
Beryllium	9-1	1572	1828	1695	1698	7.53	cps
Bismuth	209-1	18666262	18515562	18648801	18610208	0.44	cps
Bismuth	209-2	12768182	12669014	12809599	12748931	0.57	cps
Bromine	81-1	20691	22728	22958	22126	5.64	cps
Bromine	81-2	1640	1643	1533	1606	3.90	cps
Cadmium	108-1	197	170	143	170	15.68	cps
Cadmium	106-1	10437	9583	9360	9793	5.81	cps
Cadmium	111-1	7665	7106	6858	7210	5.73	cps
Calcium	43-1	994896	983581	969424	982634	1.30	cps
Calcium	44-1	16006156	15702361	15720097	15809538	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	177598	176811	173936	176115	1.09	cps
Cobalt	59-2	210579	207188	209011	208926	0.81	cps
Copper	63-2	2663624	2678783	2661830	2668079	0.35	cps
Dysprosium	156-1	178875	178743	180093	179237	0.42	cps
Dysprosium	156-2	119348	119274	119211	119278	0.06	cps
Erbium	164-1	133127	132955	134224	133435	0.52	cps
Erbium	164-2	83930	81858	81623	82470	1.54	cps
Gadolinium	160-1	195060	194495	196276	195277	0.47	cps
Gadolinium	160-2	127958	126687	125924	126856	0.81	cps
Holmium	165-1	32524205	32255013	32215590	32331603	0.52	cps
Holmium	165-2	19913572	20009077	19972133	19964927	0.24	cps
Indium	115-1	27836353	26834623	26886703	27185893	2.07	cps
Indium	115-2	9354583	9321769	9349181	9341845	0.19	cps
Iron	56-2	108017642	107862675	106430912	107437076	0.81	cps
Iron	57-2	2693095	2662887	2680997	2678993	0.57	cps
Iron	54-2	5931716	5869662	5851924	5884434	0.71	cps
Krypton	83-1	780	673	660	704	9.34	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	271122	279612	275249	275327	1.54	cps
Lead	207-1	227100	231250	228305	228885	0.93	cps
Lead	208-1	1055562	1076366	1063313	1065081	0.99	cps
Lithium	6-1	1490923	1440081	1384465	1438490	3.70	cps
Magnesium	24-2	7442447	7485390	7336781	7421539	1.03	cps
Manganese	55-2	5417105	5291896	5258156	5322385	1.57	cps
Molybdenum	94-1	33328	33168	32099	32865	2.03	cps
Molybdenum	95-1	803	740	753	766	4.36	cps
Molybdenum	96-1	6995	7052	6918	6988	0.96	cps
Molybdenum	97-1	523	430	467	473	9.93	cps
Molybdenum	98-1	1030	1063	993	1029	3.40	cps
Neodymium	150-1	196139	196572	195091	195934	0.39	cps
Neodymium	150-2	106787	106297	105534	106206	0.59	cps
Nickel	60-2	105703	105357	106538	105866	0.57	cps
Phosphorus	31-2	29886	29849	30009	29915	0.28	cps
Potassium	39-2	1934161	1928006	1923147	1928438	0.29	cps
Rhodium	103-1	26179684	25467953	25686599	25778079	1.41	cps
Rhodium	103-2	15650701	15630367	15543361	15608143	0.37	cps
Scandium	45-1	12821871	12378804	12479005	12559893	1.85	cps
Scandium	45-2	1325081	1315850	1318426	1319786	0.36	cps
Selenium	82-1	1291	1211	1169	1223	5.06	cps
Selenium	77-2	550	637	623	603	7.73	cps
Selenium	78-2	1050	953	983	996	4.97	cps
Silicon	28-1	46922931	46244359	45019749	46062347	2.09	cps
Silver	107-1	4487	4487	4497	4491	0.13	cps
Silver	109-1	4157	4137	4047	4114	1.42	cps
Sodium	23-2	1098547	1102916	1099196	1100220	0.21	cps
Strontium	86-1	486718	489970	483176	486621	0.70	cps
Strontium	88-1	4320569	4344675	4279571	4314938	0.76	cps
Sulfur	34-1	230275	225269	223890	226478	1.48	cps
Terbium	159-1	33596352	33118607	33746683	33487214	0.98	cps
Terbium	159-2	20161221	20204183	20066059	20143821	0.35	cps
Thallium	203-1	3377	3487	3521	3462	2.17	cps
Thallium	205-1	7922	7966	7919	7936	0.33	cps
Tin	118-1	10831	10697	10564	10697	1.25	cps
Titanium	47-1	141107	140816	138968	140297	0.83	cps

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LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:54:35	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	117267	118015	116501	117261	0.65	cps
Vanadium	51-2	231530	229259	229608	230133	0.53	cps
Yttrium	89-1	40936489	40259155	40481520	40559055	0.85	cps
Yttrium	89-2	10783741	10677549	10526038	10662443	1.21	cps
Zinc	66-2	97261	96241	94399	95967	1.51	cps
Zirconium	90-1	87552	88461	86070	87361	1.38	cps
Zirconium	91-1	20561	19737	19390	19896	3.02	cps

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LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6630413	6501655	6462749	6531606	1.34	cps
Antimony	121-1	1073	1070	1093	1079	1.17	cps
Arsenic	75-2	6818	6758	6672	6749	1.09	cps
Barium	135-1	1932150	1944578	1929453	1935394	0.42	cps
Barium	137-1	3301668	3327721	3314694	3314694	0.39	cps
Beryllium	9-1	2245	2228	2061	2178	4.66	cps
Bismuth	209-1	19717268	18819792	18643223	19060094	3.02	cps
Bismuth	209-2	12294668	12512611	12628014	12478431	1.36	cps
Bromine	81-1	20938	22854	22554	22116	4.66	cps
Bromine	81-2	1700	1837	1823	1787	4.22	cps
Cadmium	108-1	203	223	267	231	14.01	cps
Cadmium	106-1	10634	10127	9436	10066	5.97	cps
Cadmium	111-1	7888	7523	6932	7448	6.48	cps
Calcium	43-1	1106655	1099163	1080851	1095556	1.21	cps
Calcium	44-1	17993007	17219228	17182783	17465006	2.62	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	255551	254367	251963	253960	0.72	cps
Cobalt	59-2	308804	311595	306599	308999	0.81	cps
Copper	63-2	3916079	3860183	3854206	3876823	0.88	cps
Dysprosium	156-1	228785	231766	230523	230358	0.65	cps
Dysprosium	156-2	156276	151180	153330	153595	1.67	cps
Erbium	164-1	168331	171917	172092	170780	1.24	cps
Erbium	164-2	105498	105965	104268	105244	0.83	cps
Gadolinium	160-1	250806	256372	254385	253854	1.11	cps
Gadolinium	160-2	167186	165846	164143	165725	0.92	cps
Holmium	165-1	34544402	32424350	32479024	33149259	3.65	cps
Holmium	165-2	19376986	19525544	19866200	19589577	1.28	cps
Indium	115-1	28556883	26811137	27145193	27504404	3.37	cps
Indium	115-2	8977616	9158851	9144049	9093506	1.11	cps
Iron	56-2	160261128	158946598	159469168	159558964	0.41	cps
Iron	57-2	3991915	3960588	3951495	3968000	0.53	cps
Iron	54-2	8762232	8713276	8607637	8694382	0.91	cps
Krypton	83-1	603	797	627	676	15.62	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	346170	351642	354291	350701	1.18	cps
Lead	207-1	290748	293448	290553	291583	0.56	cps
Lead	208-1	1353771	1367975	1363927	1361891	0.54	cps
Lithium	6-1	1570380	1368457	1374195	1437677	8.00	cps
Magnesium	24-2	10632298	10489857	10395487	10505881	1.13	cps
Manganese	55-2	6512660	6467003	6463164	6480942	0.42	cps
Molybdenum	94-1	41215	41038	40432	40895	1.00	cps
Molybdenum	95-1	987	1023	930	980	4.80	cps
Molybdenum	96-1	9036	9203	8986	9075	1.25	cps
Molybdenum	97-1	513	647	587	582	11.47	cps
Molybdenum	98-1	1373	1370	1263	1336	4.69	cps
Neodymium	150-1	250139	254423	255948	253503	1.19	cps
Neodymium	150-2	138712	136170	134861	136581	1.43	cps
Nickel	60-2	158848	157295	158568	158237	0.52	cps
Phosphorus	31-2	37840	36594	36754	37063	1.83	cps
Potassium	39-2	2572353	2584446	2680072	2612290	2.26	cps
Rhodium	103-1	27126885	25808397	25658123	26197802	3.08	cps
Rhodium	103-2	14997080	15184776	15397439	15193098	1.32	cps
Scandium	45-1	13600166	12256784	12387507	12748153	5.81	cps
Scandium	45-2	1298282	1279958	1297840	1292027	0.81	cps
Selenium	82-1	1472	1238	1341	1351	8.69	cps
Selenium	77-2	793	780	907	827	8.42	cps
Selenium	78-2	1173	1013	963	1050	10.45	cps
Silicon	28-1	69282294	68045806	65409204	67579101	2.93	cps
Silver	107-1	9917	10227	10110	10085	1.55	cps
Silver	109-1	9350	9180	10017	9515	4.65	cps
Sodium	23-2	1183480	1163143	1170122	1172248	0.88	cps
Strontium	86-1	594744	601874	598809	598476	0.60	cps
Strontium	88-1	5277683	5380111	5235897	5297897	1.40	cps
Sulfur	34-1	227566	221627	216333	221842	2.53	cps
Terbium	159-1	35503647	33784106	34282557	34523437	2.56	cps
Terbium	159-2	19479898	19921571	20327642	19909704	2.13	cps
Thallium	203-1	4417	4431	4454	4434	0.42	cps
Thallium	205-1	9797	10124	9910	9944	1.67	cps
Tin	118-1	18328	19103	18225	18552	2.59	cps
Titanium	47-1	199027	204537	200844	201470	1.39	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	1
Date & Time Acquired :	2024-11-09 23:57:38	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	153018	155473	156599	155030	1.18	cps
Vanadium	51-2	314251	308297	306045	309531	1.37	cps
Yttrium	89-1	43107914	40876108	40656996	41547006	3.26	cps
Yttrium	89-2	10408746	10567559	10667197	10547834	1.24	cps
Zinc	66-2	197869	197154	199063	198028	0.49	cps
Zirconium	90-1	108856	110392	108316	109188	0.99	cps
Zirconium	91-1	24454	24854	24297	24535	1.17	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5715161	5623771	5535758	5624897	1.59	cps
Antimony	121-1	790	707	750	749	5.57	cps
Arsenic	75-2	6572	6411	6441	6475	1.31	cps
Barium	135-1	1623639	1645825	1624435	1631300	0.77	cps
Barium	137-1	2830375	2832383	2817846	2826868	0.28	cps
Beryllium	9-1	1989	1961	1767	1906	6.35	cps
Bismuth	209-1	18813548	18728157	18496893	18679533	0.88	cps
Bismuth	209-2	12917051	12468511	12803771	12729778	1.83	cps
Bromine	81-1	19750	20568	21012	20443	3.13	cps
Bromine	81-2	1453	1570	1503	1509	3.88	cps
Cadmium	108-1	227	180	183	197	13.24	cps
Cadmium	106-1	9673	9693	9213	9527	2.85	cps
Cadmium	111-1	7096	7209	6801	7035	3.00	cps
Calcium	43-1	1083046	1073461	1061696	1072734	1.00	cps
Calcium	44-1	17457928	17101533	17070668	17210043	1.25	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	211184	210386	208299	209956	0.71	cps
Cobalt	59-2	276808	273233	267908	272650	1.64	cps
Copper	63-2	4268322	4202407	4190594	4220441	0.99	cps
Dysprosium	156-1	195393	194921	197019	195778	0.56	cps
Dysprosium	156-2	131253	130416	129181	130283	0.80	cps
Erbium	164-1	146959	148881	147145	147662	0.72	cps
Erbium	164-2	89712	89414	90574	89900	0.67	cps
Gadolinium	160-1	211575	215090	213325	213330	0.82	cps
Gadolinium	160-2	139564	137945	138779	138762	0.58	cps
Holmium	165-1	32670911	32195177	32272818	32379635	0.79	cps
Holmium	165-2	20016036	19659614	19864161	19846603	0.90	cps
Indium	115-1	27216599	27013844	26820806	27017083	0.73	cps
Indium	115-2	9255683	9276118	9267395	9266399	0.11	cps
Iron	56-2	140807665	142352445	140541461	141233857	0.69	cps
Iron	57-2	3552259	3538627	3484912	3525266	1.01	cps
Iron	54-2	7733498	7693564	7759436	7728833	0.43	cps
Krypton	83-1	697	640	723	687	6.20	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	329932	335329	331420	332227	0.84	cps
Lead	207-1	274045	276004	274749	274932	0.36	cps
Lead	208-1	1281032	1287368	1278701	1282367	0.35	cps
Lithium	6-1	1507482	1363058	1395623	1422054	5.33	cps
Magnesium	24-2	9447711	9350465	9206346	9334841	1.30	cps
Manganese	55-2	6610969	6622995	6638116	6624027	0.21	cps
Molybdenum	94-1	38073	37715	37274	37687	1.06	cps
Molybdenum	95-1	927	847	890	888	4.51	cps
Molybdenum	96-1	7982	8749	8716	8483	5.11	cps
Molybdenum	97-1	537	547	470	518	8.05	cps
Molybdenum	98-1	1160	1187	1230	1192	2.96	cps
Neodymium	150-1	215514	216525	212136	214725	1.07	cps
Neodymium	150-2	116328	114493	115098	115307	0.81	cps
Nickel	60-2	143579	140400	138416	140798	1.85	cps
Phosphorus	31-2	31105	32030	30541	31225	2.41	cps
Potassium	39-2	2190833	2165013	2215087	2190311	1.14	cps
Rhodium	103-1	25972969	25518307	25422810	25638029	1.15	cps
Rhodium	103-2	15439512	15305731	15367981	15371075	0.44	cps
Scandium	45-1	12565092	12220852	12376450	12387465	1.39	cps
Scandium	45-2	1329078	1305749	1274600	1303142	2.10	cps
Selenium	82-1	1326	1296	1158	1260	7.09	cps
Selenium	77-2	730	680	737	716	4.33	cps
Selenium	78-2	1137	1087	1123	1116	2.32	cps
Silicon	28-1	50960783	50550996	48315204	49942328	2.85	cps
Silver	107-1	7595	7145	7462	7401	3.12	cps
Silver	109-1	6922	6975	6648	6848	2.56	cps
Sodium	23-2	1125076	1084719	1057444	1089080	3.12	cps
Strontium	86-1	525742	528175	518052	523990	1.01	cps
Strontium	88-1	4643639	4654542	4579592	4625924	0.88	cps
Sulfur	34-1	217623	218722	214007	216784	1.14	cps
Terbium	159-1	34115252	33315036	33130099	33520129	1.56	cps
Terbium	159-2	20130840	20186477	19873145	20063487	0.83	cps
Thallium	203-1	3504	3751	3757	3671	3.93	cps
Thallium	205-1	8266	8659	8129	8352	3.30	cps
Tin	118-1	12963	12986	13143	13030	0.75	cps
Titanium	47-1	178186	175333	171018	174846	2.06	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:00:43	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	131798	130381	129136	130438	1.02	cps
Vanadium	51-2	267542	266762	263048	265784	0.90	cps
Yttrium	89-1	40791484	39607046	40138244	40178925	1.48	cps
Yttrium	89-2	10663350	10568163	10671158	10634224	0.54	cps
Zinc	66-2	128887	127192	126554	127545	0.95	cps
Zirconium	90-1	100891	102665	100027	101194	1.33	cps
Zirconium	91-1	23022	22691	22774	22829	0.75	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4904060	4751225	4815161	4823482	1.59	cps
Antimony	121-1	707	730	753	730	3.20	cps
Arsenic	75-2	5638	5121	5238	5332	5.08	cps
Barium	135-1	1446632	1451373	1446986	1448330	0.18	cps
Barium	137-1	2497417	2545432	2540678	2527842	1.05	cps
Beryllium	9-1	1956	1745	1672	1791	8.22	cps
Bismuth	209-1	19363838	19385441	19191744	19313674	0.55	cps
Bismuth	209-2	13015950	12813615	12825915	12885160	0.88	cps
Bromine	81-1	20461	21209	22290	21320	4.31	cps
Bromine	81-2	1693	1383	1567	1548	10.07	cps
Cadmium	108-1	163	173	173	170	3.40	cps
Cadmium	106-1	10107	9630	9190	9642	4.76	cps
Cadmium	111-1	7311	7083	6635	7009	4.91	cps
Calcium	43-1	811747	792855	783660	796087	1.80	cps
Calcium	44-1	12925873	12480014	12382784	12596223	2.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	191732	189930	191669	191111	0.54	cps
Cobalt	59-2	237320	235158	236943	236474	0.49	cps
Copper	63-2	9894776	9862977	9821368	9859707	0.37	cps
Dysprosium	156-1	173859	173184	174851	173964	0.48	cps
Dysprosium	156-2	115527	114381	112782	114230	1.21	cps
Erbium	164-1	130557	132030	131428	131338	0.56	cps
Erbium	164-2	80430	81104	80312	80615	0.53	cps
Gadolinium	160-1	191571	188947	191164	190561	0.74	cps
Gadolinium	160-2	124746	122029	122396	123057	1.20	cps
Holmium	165-1	32600245	32249716	32631718	32493893	0.65	cps
Holmium	165-2	20277351	19964832	19935990	20059391	0.94	cps
Indium	115-1	27933669	26913756	27289367	27378930	1.88	cps
Indium	115-2	9335893	9312898	9220822	9289871	0.66	cps
Iron	56-2	126640691	127391048	126358388	126796709	0.42	cps
Iron	57-2	3153820	3160445	3112434	3142233	0.83	cps
Iron	54-2	6957833	6945754	6963340	6955642	0.13	cps
Krypton	83-1	630	620	623	624	0.82	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	284664	287302	287035	286334	0.51	cps
Lead	207-1	235717	241511	241710	239646	1.42	cps
Lead	208-1	1099493	1116629	1110461	1108861	0.78	cps
Lithium	6-1	1481129	1342511	1378849	1400830	5.13	cps
Magnesium	24-2	8278871	8217072	8263359	8253100	0.39	cps
Manganese	55-2	4551662	4533585	4457949	4514398	1.10	cps
Molybdenum	94-1	37224	36756	36786	36922	0.71	cps
Molybdenum	95-1	703	757	683	714	5.31	cps
Molybdenum	96-1	8036	8289	7832	8052	2.84	cps
Molybdenum	97-1	380	560	493	478	19.05	cps
Molybdenum	98-1	1017	1033	987	1012	2.34	cps
Neodymium	150-1	183984	182981	183295	183420	0.28	cps
Neodymium	150-2	98722	98491	96726	97980	1.11	cps
Nickel	60-2	119639	118577	120516	119577	0.81	cps
Phosphorus	31-2	26059	26069	26473	26200	0.90	cps
Potassium	39-2	2037575	2024010	1968281	2009955	1.83	cps
Rhodium	103-1	26069501	25910245	25949037	25976261	0.32	cps
Rhodium	103-2	15678071	15648701	15430126	15585633	0.87	cps
Scandium	45-1	12710334	12215779	12233647	12386587	2.26	cps
Scandium	45-2	1296474	1286029	1272892	1285132	0.92	cps
Selenium	82-1	1354	1338	1413	1368	2.87	cps
Selenium	77-2	550	603	610	588	5.59	cps
Selenium	78-2	973	877	1073	974	10.09	cps
Silicon	28-1	43039694	41065769	41006243	41703902	2.77	cps
Silver	107-1	11822	11605	11715	11714	0.93	cps
Silver	109-1	10604	11018	10884	10835	1.95	cps
Sodium	23-2	840117	844740	841537	842131	0.28	cps
Strontium	86-1	530156	535235	536725	534038	0.64	cps
Strontium	88-1	4766985	4740766	4747761	4751837	0.29	cps
Sulfur	34-1	220436	216218	211993	216216	1.95	cps
Terbium	159-1	34077289	33520775	33639743	33745936	0.87	cps
Terbium	159-2	20407932	20372406	20561509	20447283	0.49	cps
Thallium	203-1	3420	3367	3520	3436	2.27	cps
Thallium	205-1	7859	8556	7959	8125	4.64	cps
Tin	118-1	11201	11548	11098	11282	2.09	cps
Titanium	47-1	178853	176776	175144	176925	1.05	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:03:47	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	116807	118182	118687	117892	0.83	cps
Vanadium	51-2	244741	243825	244089	244218	0.19	cps
Yttrium	89-1	40658845	39970757	40527965	40385856	0.90	cps
Yttrium	89-2	10627698	10637152	10674663	10646504	0.23	cps
Zinc	66-2	111066	110260	110522	110616	0.37	cps
Zirconium	90-1	99215	99893	99621	99577	0.34	cps
Zirconium	91-1	23045	22370	22741	22719	1.49	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5077308	5104598	5141244	5107717	0.63	cps
Antimony	121-1	793	887	873	851	5.93	cps
Arsenic	75-2	6285	6185	5671	6047	5.44	cps
Barium	135-1	1486590	1513683	1499983	1500085	0.90	cps
Barium	137-1	2559361	2645535	2593908	2599602	1.67	cps
Beryllium	9-1	1917	1961	1950	1943	1.19	cps
Bismuth	209-1	20286601	19197925	19170890	19551805	3.26	cps
Bismuth	209-2	13127897	13122486	13350086	13200157	0.98	cps
Bromine	81-1	20835	21813	22681	21776	4.24	cps
Bromine	81-2	1547	1643	1580	1590	3.09	cps
Cadmium	108-1	190	270	243	234	17.38	cps
Cadmium	106-1	10184	9200	9423	9602	5.37	cps
Cadmium	111-1	7392	6677	6839	6970	5.38	cps
Calcium	43-1	895400	894651	893486	894513	0.11	cps
Calcium	44-1	14292896	14403283	14216954	14304377	0.66	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	207731	206508	205236	206492	0.60	cps
Cobalt	59-2	252483	252388	249911	251594	0.58	cps
Copper	63-2	8332697	8332401	8298668	8321255	0.24	cps
Dysprosium	156-1	181058	186309	184841	184069	1.47	cps
Dysprosium	156-2	119735	123645	121214	121531	1.62	cps
Erbium	164-1	136829	142195	139004	139343	1.94	cps
Erbium	164-2	86790	86090	84168	85683	1.58	cps
Gadolinium	160-1	200567	205055	204216	203279	1.17	cps
Gadolinium	160-2	132930	131494	131053	131826	0.74	cps
Holmium	165-1	34501229	33001290	32094393	33198971	3.66	cps
Holmium	165-2	20325028	20398324	20151192	20291515	0.63	cps
Indium	115-1	28696860	27071499	27188692	27652350	3.28	cps
Indium	115-2	9497776	9406485	9395946	9433402	0.59	cps
Iron	56-2	134430715	135993925	134570011	134998217	0.64	cps
Iron	57-2	3315916	3333535	3371977	3340476	0.86	cps
Iron	54-2	7301905	7327037	7351682	7326875	0.34	cps
Krypton	83-1	607	673	653	644	5.31	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	301128	310224	308089	306480	1.55	cps
Lead	207-1	251878	255869	256787	254844	1.02	cps
Lead	208-1	1178061	1200282	1193819	1190721	0.96	cps
Lithium	6-1	1547415	1358741	1318569	1408242	8.68	cps
Magnesium	24-2	8723863	8683601	8603415	8670293	0.71	cps
Manganese	55-2	5054525	5156147	5049309	5086660	1.18	cps
Molybdenum	94-1	41275	41736	41144	41385	0.75	cps
Molybdenum	95-1	963	880	860	901	6.08	cps
Molybdenum	96-1	8983	9190	8990	9054	1.30	cps
Molybdenum	97-1	420	430	567	472	17.35	cps
Molybdenum	98-1	1417	1033	1007	1152	19.91	cps
Neodymium	150-1	192344	199405	198539	196762	1.96	cps
Neodymium	150-2	105538	105518	103258	104771	1.25	cps
Nickel	60-2	127217	128159	127366	127581	0.40	cps
Phosphorus	31-2	27495	27675	27511	27560	0.36	cps
Potassium	39-2	2114332	2083856	2088539	2095576	0.78	cps
Rhodium	103-1	27283985	25664281	25534151	26160806	3.73	cps
Rhodium	103-2	15817817	15684247	15725741	15742602	0.43	cps
Scandium	45-1	13186011	12170346	12132774	12496377	4.78	cps
Scandium	45-2	1287031	1286393	1304664	1292696	0.80	cps
Selenium	82-1	1474	1416	1334	1408	4.97	cps
Selenium	77-2	690	593	597	627	8.76	cps
Selenium	78-2	950	1027	1147	1041	9.52	cps
Silicon	28-1	43892971	44420224	42528463	43613886	2.24	cps
Silver	107-1	12015	12746	12189	12316	3.10	cps
Silver	109-1	11548	11601	11188	11446	1.97	cps
Sodium	23-2	880205	887546	880129	882627	0.48	cps
Strontium	86-1	541036	553565	543095	545899	1.23	cps
Strontium	88-1	4691280	4856882	4816002	4788055	1.80	cps
Sulfur	34-1	219230	218642	219207	219026	0.15	cps
Terbium	159-1	36028424	33967329	33827273	34607676	3.56	cps
Terbium	159-2	20685813	20781351	20295364	20587510	1.25	cps
Thallium	203-1	3694	3774	3644	3704	1.77	cps
Thallium	205-1	8259	8263	8333	8285	0.50	cps
Tin	118-1	13913	14087	14047	14016	0.65	cps
Titanium	47-1	179044	184002	180536	181194	1.40	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:06:53	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	131139	136617	134969	134241	2.09	cps
Vanadium	51-2	262078	262700	262170	262316	0.13	cps
Yttrium	89-1	42483323	40012069	39627832	40707741	3.81	cps
Yttrium	89-2	10883574	10671289	10713202	10756021	1.05	cps
Zinc	66-2	127633	126510	125519	126554	0.84	cps
Zirconium	90-1	110247	112140	111392	111260	0.86	cps
Zirconium	91-1	24574	25372	24865	24937	1.62	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1030798	1033723	1025333	1029951	0.41	cps
Antimony	121-1	913	877	853	881	3.43	cps
Arsenic	75-2	1170	1140	1017	1109	7.33	cps
Barium	135-1	307486	309502	309220	308736	0.35	cps
Barium	137-1	531941	536924	529747	532870	0.69	cps
Beryllium	9-1	450	467	461	459	1.85	cps
Bismuth	209-1	18997298	19079131	19416097	19164175	1.16	cps
Bismuth	209-2	13392959	13090041	13001568	13161523	1.56	cps
Bromine	81-1	17851	17918	18095	17954	0.70	cps
Bromine	81-2	507	407	480	464	11.15	cps
Cadmium	108-1	60	70	53	61	13.73	cps
Cadmium	106-1	9480	9483	9156	9373	2.00	cps
Cadmium	111-1	6687	6706	6485	6626	1.84	cps
Calcium	43-1	174487	177805	176457	176250	0.95	cps
Calcium	44-1	2883931	2798993	2775543	2819489	2.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40942	41286	41390	41206	0.57	cps
Cobalt	59-2	51177	51598	50408	51061	1.18	cps
Copper	63-2	2143901	2140197	2121967	2135355	0.55	cps
Dysprosium	156-1	36357	36892	36180	36476	1.02	cps
Dysprosium	156-2	24485	24455	24244	24395	0.54	cps
Erbium	164-1	27631	27367	28048	27682	1.24	cps
Erbium	164-2	16897	16937	17014	16949	0.35	cps
Gadolinium	160-1	39887	40916	39934	40245	1.44	cps
Gadolinium	160-2	26772	27076	27260	27036	0.91	cps
Holmium	165-1	32186236	32333902	33455946	32658695	2.13	cps
Holmium	165-2	20262101	20060719	20046631	20123150	0.60	cps
Indium	115-1	27788229	27731232	27317065	27612175	0.93	cps
Indium	115-2	9525019	9623535	9423243	9523932	1.05	cps
Iron	56-2	27410552	27287115	27143265	27280310	0.49	cps
Iron	57-2	695484	694244	691750	693826	0.27	cps
Iron	54-2	1544719	1508570	1491105	1514798	1.81	cps
Krypton	83-1	607	597	477	560	12.92	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	62014	61528	62312	61951	0.64	cps
Lead	207-1	51069	51855	51628	51517	0.79	cps
Lead	208-1	239283	240257	240422	239987	0.26	cps
Lithium	6-1	1588107	1561831	1584092	1578010	0.90	cps
Magnesium	24-2	1818567	1816381	1811358	1815435	0.20	cps
Manganese	55-2	960106	953517	941387	951670	1.00	cps
Molybdenum	94-1	8212	8166	8409	8262	1.56	cps
Molybdenum	95-1	250	227	240	239	4.90	cps
Molybdenum	96-1	1897	1847	1897	1880	1.54	cps
Molybdenum	97-1	130	197	183	170	20.75	cps
Molybdenum	98-1	343	350	350	348	1.11	cps
Neodymium	150-1	37684	39104	38700	38496	1.90	cps
Neodymium	150-2	20612	20745	20595	20651	0.40	cps
Nickel	60-2	26724	26096	25669	26163	2.03	cps
Phosphorus	31-2	5858	6015	5778	5883	2.05	cps
Potassium	39-2	537518	534732	529348	533866	0.78	cps
Rhodium	103-1	26228424	26555919	26693279	26492540	0.90	cps
Rhodium	103-2	15846626	15937527	15673598	15819250	0.85	cps
Scandium	45-1	12968695	12683511	12882580	12844929	1.14	cps
Scandium	45-2	1281854	1278319	1306358	1288844	1.18	cps
Selenium	82-1	1044	1133	1184	1120	6.32	cps
Selenium	77-2	147	133	150	143	6.15	cps
Selenium	78-2	730	820	740	763	6.46	cps
Silicon	28-1	10478245	10467793	10466260	10470766	0.06	cps
Silver	107-1	2550	2777	2767	2698	4.75	cps
Silver	109-1	2484	2414	2450	2449	1.43	cps
Sodium	23-2	252366	250167	249700	250745	0.57	cps
Strontium	86-1	114222	114656	115059	114645	0.36	cps
Strontium	88-1	994790	990003	988587	991127	0.33	cps
Sulfur	34-1	214868	212766	213004	213546	0.54	cps
Terbium	159-1	33706630	33445105	33892690	33681475	0.67	cps
Terbium	159-2	20456001	20361553	20646344	20487966	0.71	cps
Thallium	203-1	1233	1150	1160	1181	3.85	cps
Thallium	205-1	2724	2730	2687	2714	0.86	cps
Tin	118-1	5668	4534	4884	5029	11.55	cps
Titanium	47-1	38252	39421	39227	38967	1.61	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LX5	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 00:09:57	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	24446	24937	24429	24604	1.17	cps
Vanadium	51-2	54117	52387	52140	52881	2.04	cps
Yttrium	89-1	39802259	39507129	39658789	39656059	0.37	cps
Yttrium	89-2	10644113	10569564	10572010	10595229	0.40	cps
Zinc	66-2	26403	25228	25906	25846	2.28	cps
Zirconium	90-1	22060	22047	22133	22080	0.21	cps
Zirconium	91-1	4984	5081	4894	4986	1.87	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5092179	5121566	5138956	5117567	0.46	cps
Antimony	121-1	633659	639217	636939	636605	0.44	cps
Arsenic	75-2	18605	18745	18522	18624	0.61	cps
Barium	135-1	4581818	4557755	4560464	4566679	0.29	cps
Barium	137-1	7880649	7802637	7784802	7822696	0.65	cps
Beryllium	9-1	18712	18038	17299	18016	3.92	cps
Bismuth	209-1	20016544	19386586	19748715	19717282	1.60	cps
Bismuth	209-2	13131581	13183216	13034139	13116312	0.58	cps
Bromine	81-1	21145	21579	22491	21738	3.16	cps
Bromine	81-2	1613	1660	1550	1608	3.43	cps
Cadmium	108-1	5581	5688	5638	5636	0.95	cps
Cadmium	106-1	17784	16606	16913	17101	3.57	cps
Cadmium	111-1	90436	89016	89545	89666	0.80	cps
Calcium	43-1	842602	831678	820349	831543	1.34	cps
Calcium	44-1	13511498	13335881	13013715	13287031	1.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	697265	694095	690078	693813	0.52	cps
Cobalt	59-2	2334860	2315535	2306621	2319005	0.62	cps
Copper	63-2	10418611	10237419	10362732	10339587	0.90	cps
Dysprosium	156-1	178118	177793	179594	178501	0.54	cps
Dysprosium	156-2	120035	117742	118347	118708	1.00	cps
Erbium	164-1	133238	137075	135399	135237	1.42	cps
Erbium	164-2	82297	84188	82300	82929	1.32	cps
Gadolinium	160-1	197388	198180	198411	197993	0.27	cps
Gadolinium	160-2	128506	126861	126882	127417	0.74	cps
Holmium	165-1	33337050	33456326	33361467	33384948	0.19	cps
Holmium	165-2	20374629	20511807	20409553	20431996	0.35	cps
Indium	115-1	28135260	27531195	27330939	27665798	1.51	cps
Indium	115-2	9441508	9248245	9397536	9362429	1.08	cps
Iron	56-2	132207961	134544378	133933168	133561836	0.91	cps
Iron	57-2	3310917	3320087	3269055	3300020	0.82	cps
Iron	54-2	7360886	7336317	7181768	7292991	1.33	cps
Krypton	83-1	703	617	607	642	8.28	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	389912	388891	388271	389024	0.21	cps
Lead	207-1	324276	323059	325281	324205	0.34	cps
Lead	208-1	1518575	1511816	1506835	1512409	0.39	cps
Lithium	6-1	1573540	1459745	1418912	1484066	5.40	cps
Magnesium	24-2	8446634	8497385	8535604	8493208	0.53	cps
Manganese	55-2	5573639	5597195	5656085	5608973	0.76	cps
Molybdenum	94-1	37702	37324	37825	37617	0.69	cps
Molybdenum	95-1	840	860	803	834	3.44	cps
Molybdenum	96-1	8269	8346	8072	8229	1.71	cps
Molybdenum	97-1	470	473	440	461	3.98	cps
Molybdenum	98-1	1127	1160	1180	1156	2.33	cps
Neodymium	150-1	190238	190213	190777	190409	0.17	cps
Neodymium	150-2	100713	101697	100529	100979	0.62	cps
Nickel	60-2	655117	648288	649878	651094	0.55	cps
Phosphorus	31-2	26446	26299	26192	26313	0.48	cps
Potassium	39-2	2044418	2075582	2044863	2054954	0.87	cps
Rhodium	103-1	26347782	25705950	26192124	26081952	1.28	cps
Rhodium	103-2	15807694	15683756	15524974	15672141	0.90	cps
Scandium	45-1	13166727	12601893	12416432	12728351	3.07	cps
Scandium	45-2	1308834	1282083	1291588	1294168	1.05	cps
Selenium	82-1	10502	11109	10962	10858	2.92	cps
Selenium	77-2	1507	1527	1523	1519	0.71	cps
Selenium	78-2	4384	4294	4224	4301	1.87	cps
Silicon	28-1	46138923	45093998	44295128	45176016	2.05	cps
Silver	107-1	420829	420400	420947	420725	0.07	cps
Silver	109-1	405199	402072	401646	402972	0.48	cps
Sodium	23-2	846959	844769	843029	844919	0.23	cps
Strontium	86-1	539370	540433	540877	540227	0.14	cps
Strontium	88-1	4834421	4872332	4766499	4824417	1.11	cps
Sulfur	34-1	220522	216353	214280	217052	1.46	cps
Terbium	159-1	34924110	34458400	34701320	34694610	0.67	cps
Terbium	159-2	20569997	20559763	20702111	20610624	0.39	cps
Thallium	203-1	288503	290227	287206	288645	0.53	cps
Thallium	205-1	669558	671895	673697	671717	0.31	cps
Tin	118-1	12692	12579	12058	12443	2.72	cps
Titanium	47-1	185155	184737	179478	183123	1.73	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:13:07	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	121545	124919	122090	122851	1.47	cps
Vanadium	51-2	1333299	1334649	1317019	1328322	0.74	cps
Yttrium	89-1	41661424	40757054	40869879	41096119	1.20	cps
Yttrium	89-2	10875407	10609195	10686254	10723618	1.28	cps
Zinc	66-2	355019	354646	352676	354114	0.36	cps
Zirconium	90-1	102329	100125	100377	100943	1.20	cps
Zirconium	91-1	22631	22637	22324	22531	0.80	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5829539	5673272	5788058	5763623	1.40	cps
Antimony	121-1	1070	1073	1083	1076	0.64	cps
Arsenic	75-2	6348	6198	5961	6169	3.16	cps
Barium	135-1	1486401	1495714	1473508	1485208	0.75	cps
Barium	137-1	2544032	2618911	2556132	2573025	1.56	cps
Beryllium	9-1	2139	2000	1922	2021	5.43	cps
Bismuth	209-1	19764698	19495370	19671128	19643732	0.70	cps
Bismuth	209-2	13260761	13017801	13263862	13180808	1.07	cps
Bromine	81-1	20377	20638	21235	20750	2.12	cps
Bromine	81-2	1273	1147	1183	1201	5.43	cps
Cadmium	108-1	287	210	300	266	18.29	cps
Cadmium	106-1	10514	9974	9783	10090	3.76	cps
Cadmium	111-1	7722	7444	7168	7445	3.72	cps
Calcium	43-1	1525517	1515989	1498650	1513386	0.90	cps
Calcium	44-1	25158797	24810523	24346980	24772100	1.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	254113	253256	253541	253637	0.17	cps
Cobalt	59-2	297290	293575	293736	294867	0.71	cps
Copper	63-2	3287299	3221105	3227203	3245203	1.13	cps
Dysprosium	156-1	194339	194729	194815	194627	0.13	cps
Dysprosium	156-2	129894	128182	128791	128955	0.67	cps
Erbium	164-1	149022	148682	149096	148933	0.15	cps
Erbium	164-2	91038	89065	89041	89715	1.28	cps
Gadolinium	160-1	210400	213186	214938	212841	1.08	cps
Gadolinium	160-2	136494	135515	133806	135272	1.01	cps
Holmium	165-1	34284501	32907218	33583859	33591859	2.05	cps
Holmium	165-2	20501818	19960867	20308290	20256992	1.35	cps
Indium	115-1	27818061	27580295	27531684	27643347	0.55	cps
Indium	115-2	9301543	9329994	9224264	9285267	0.59	cps
Iron	56-2	159028858	159305554	158723231	159019214	0.18	cps
Iron	57-2	3948597	3963900	3931530	3948009	0.41	cps
Iron	54-2	8738499	8794346	8674179	8735675	0.69	cps
Krypton	83-1	647	690	620	652	5.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	331421	333275	337969	334222	1.01	cps
Lead	207-1	276869	279988	280031	278962	0.65	cps
Lead	208-1	1289472	1297356	1301945	1296258	0.49	cps
Lithium	6-1	1554049	1441856	1445589	1480498	4.30	cps
Magnesium	24-2	9918287	9731954	9607693	9752645	1.60	cps
Manganese	55-2	10158282	10139555	10134417	10144085	0.12	cps
Molybdenum	94-1	50015	50450	49734	50066	0.72	cps
Molybdenum	95-1	1237	1143	1370	1250	9.11	cps
Molybdenum	96-1	10694	11288	11171	11051	2.85	cps
Molybdenum	97-1	687	593	653	644	7.34	cps
Molybdenum	98-1	1653	1520	1677	1617	5.23	cps
Neodymium	150-1	219828	222280	222126	221411	0.62	cps
Neodymium	150-2	118106	116131	116620	116952	0.88	cps
Nickel	60-2	153295	152500	151874	152556	0.47	cps
Phosphorus	31-2	28881	28988	29018	28962	0.25	cps
Potassium	39-2	2209391	2165769	2178443	2184534	1.03	cps
Rhodium	103-1	26468211	25932299	25850207	26083572	1.29	cps
Rhodium	103-2	15651824	15570942	15613944	15612237	0.26	cps
Scandium	45-1	13094822	12481246	12565765	12713944	2.62	cps
Scandium	45-2	1303096	1281438	1259823	1281452	1.69	cps
Selenium	82-1	1449	1331	1367	1382	4.36	cps
Selenium	77-2	670	560	547	592	11.43	cps
Selenium	78-2	1037	1057	1067	1053	1.45	cps
Silicon	28-1	42642921	41801884	41741890	42062232	1.20	cps
Silver	107-1	6728	6195	5855	6259	7.04	cps
Silver	109-1	5828	5538	5268	5544	5.05	cps
Sodium	23-2	910137	920025	909615	913259	0.64	cps
Strontium	86-1	509895	503929	508997	507607	0.63	cps
Strontium	88-1	4543106	4502561	4428348	4491338	1.30	cps
Sulfur	34-1	234478	235398	234976	234951	0.20	cps
Terbium	159-1	34990996	34574503	34641327	34735609	0.64	cps
Terbium	159-2	20948222	20576550	20596359	20707044	1.01	cps
Thallium	203-1	4274	4111	4244	4210	2.07	cps
Thallium	205-1	9764	9710	9630	9701	0.69	cps
Tin	118-1	14517	14778	14834	14710	1.15	cps
Titanium	47-1	256001	247547	249231	250926	1.78	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:16:08	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	127611	129667	127106	128128	1.06	cps
Vanadium	51-2	311005	309660	307961	309542	0.49	cps
Yttrium	89-1	41828484	40905014	40723892	41152463	1.44	cps
Yttrium	89-2	10623296	10682603	10554713	10620204	0.60	cps
Zinc	66-2	158235	161061	159983	159760	0.89	cps
Zirconium	90-1	135697	136235	135209	135714	0.38	cps
Zirconium	91-1	31083	30422	29897	30467	1.95	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	16212351	16136649	16051046	16133349	0.50	cps
Antimony	121-1	49682	50227	50301	50070	0.68	cps
Arsenic	75-2	130447	130379	129563	130130	0.38	cps
Barium	135-1	2685591	2661602	2642366	2663186	0.81	cps
Barium	137-1	4523688	4538354	4508561	4523534	0.33	cps
Beryllium	9-1	1861	2039	1833	1911	5.84	cps
Bismuth	209-1	19277053	19548128	19425962	19417048	0.70	cps
Bismuth	209-2	13055763	13011974	13034451	13034063	0.17	cps
Bromine	81-1	26367	26524	26758	26549	0.74	cps
Bromine	81-2	2337	2550	2347	2411	4.99	cps
Cadmium	108-1	890	850	760	833	7.99	cps
Cadmium	106-1	11061	10891	10577	10843	2.26	cps
Cadmium	111-1	14342	14094	13917	14117	1.51	cps
Calcium	43-1	455519	445086	449393	449999	1.17	cps
Calcium	44-1	7220863	7100818	7016622	7112768	1.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	883355	886188	880777	883440	0.31	cps
Cobalt	59-2	749421	749439	740092	746318	0.72	cps
Copper	63-2	1877254	1880913	1829038	1862402	1.55	cps
Dysprosium	156-1	178982	179751	181267	180000	0.65	cps
Dysprosium	156-2	139354	139512	139656	139507	0.11	cps
Erbium	164-1	134540	137341	137010	136297	1.12	cps
Erbium	164-2	85292	84416	83028	84245	1.36	cps
Gadolinium	160-1	165253	165036	165960	165416	0.29	cps
Gadolinium	160-2	108744	107985	108143	108291	0.37	cps
Holmium	165-1	32911717	33192343	33040047	33048036	0.43	cps
Holmium	165-2	20206265	20003091	19910312	20039889	0.76	cps
Indium	115-1	27431159	27082014	27221201	27244791	0.65	cps
Indium	115-2	9243185	9285212	9157184	9228527	0.71	cps
Iron	56-2	814746281	810959588	800856095	808853988	0.89	cps
Iron	57-2	20326980	19925260	19836859	20029700	1.30	cps
Iron	54-2	44473224	44467171	44328113	44422836	0.18	cps
Krypton	83-1	710	637	603	650	8.40	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1315700	1331029	1334895	1327208	0.76	cps
Lead	207-1	1123614	1139315	1135145	1132691	0.72	cps
Lead	208-1	5113523	5175386	5172408	5153772	0.68	cps
Lithium	6-1	1539548	1515512	1458664	1504574	2.76	cps
Magnesium	24-2	13357987	13497318	13360746	13405350	0.59	cps
Manganese	55-2	18122793	18097921	17888750	18036488	0.71	cps
Molybdenum	94-1	179151	182071	179876	180366	0.84	cps
Molybdenum	95-1	16359	16473	16553	16462	0.59	cps
Molybdenum	96-1	52751	54488	53962	53734	1.66	cps
Molybdenum	97-1	10424	9900	10177	10167	2.58	cps
Molybdenum	98-1	25015	25673	25850	25512	1.72	cps
Neodymium	150-1	335224	340928	341174	339109	0.99	cps
Neodymium	150-2	184937	180997	182832	182922	1.08	cps
Nickel	60-2	362307	360538	355687	359511	0.95	cps
Phosphorus	31-2	51383	52533	51192	51703	1.40	cps
Potassium	39-2	9498797	9557563	9635117	9563826	0.71	cps
Rhodium	103-1	26091520	25706530	25379105	25725719	1.39	cps
Rhodium	103-2	15395948	15196865	15204620	15265811	0.74	cps
Scandium	45-1	13138755	12790591	12698884	12876077	1.80	cps
Scandium	45-2	1269827	1299785	1300638	1290084	1.36	cps
Selenium	82-1	1526	1583	1567	1559	1.90	cps
Selenium	77-2	640	660	473	591	17.34	cps
Selenium	78-2	1197	1250	1087	1178	7.07	cps
Silicon	28-1	61426672	62518894	59839106	61261557	2.20	cps
Silver	107-1	8649	8839	8563	8684	1.63	cps
Silver	109-1	8219	8352	8446	8339	1.37	cps
Sodium	23-2	244206	241905	244464	243525	0.58	cps
Strontium	86-1	478646	482084	476151	478960	0.62	cps
Strontium	88-1	4318892	4284519	4239109	4280840	0.93	cps
Sulfur	34-1	234098	213494	205222	217605	6.83	cps
Terbium	159-1	34460674	34050475	34548005	34353052	0.77	cps
Terbium	159-2	20340767	20138840	20429695	20303101	0.73	cps
Thallium	203-1	9106	9627	9407	9380	2.78	cps
Thallium	205-1	21664	21945	22135	21914	1.08	cps
Tin	118-1	60563	60503	61099	60722	0.54	cps
Titanium	47-1	2544927	2510017	2494347	2516430	1.03	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-01	Instrumnet Name :	P7
Client Sample ID :	MYE4N5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:19:15	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	80505	82101	82144	81583	1.15	cps
Vanadium	51-2	1461481	1458625	1451878	1457328	0.34	cps
Yttrium	89-1	41608960	40829826	40353152	40930646	1.55	cps
Yttrium	89-2	10649347	10546171	10415380	10536966	1.11	cps
Zinc	66-2	484659	480637	478952	481416	0.61	cps
Zirconium	90-1	462359	464564	461449	462791	0.35	cps
Zirconium	91-1	102652	104589	105577	104273	1.43	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	27385965	27169274	27118505	27224581	0.52	cps
Antimony	121-1	44779	45769	45545	45365	1.14	cps
Arsenic	75-2	178620	177153	177261	177678	0.46	cps
Barium	135-1	4244475	4246410	4266106	4252330	0.28	cps
Barium	137-1	7305365	7216225	7337664	7286418	0.86	cps
Beryllium	9-1	2861	2811	2745	2806	2.09	cps
Bismuth	209-1	19138319	19303775	19294534	19245543	0.48	cps
Bismuth	209-2	13155328	13041402	12659024	12951918	2.01	cps
Bromine	81-1	34053	34611	35205	34623	1.66	cps
Bromine	81-2	4024	3997	3911	3977	1.49	cps
Cadmium	108-1	1497	1530	1410	1479	4.19	cps
Cadmium	106-1	12602	12562	12075	12413	2.36	cps
Cadmium	111-1	18962	19164	18713	18946	1.19	cps
Calcium	43-1	864990	857509	852158	858219	0.75	cps
Calcium	44-1	13747699	13853102	13611215	13737339	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1301893	1291393	1326268	1306518	1.37	cps
Cobalt	59-2	1013334	1010552	995813	1006566	0.94	cps
Copper	63-2	3300768	3287874	3303381	3297341	0.25	cps
Dysprosium	156-1	273704	279963	278925	277531	1.21	cps
Dysprosium	156-2	216580	214879	214581	215347	0.50	cps
Erbium	164-1	221685	223106	223568	222786	0.44	cps
Erbium	164-2	136166	136452	136169	136262	0.12	cps
Gadolinium	160-1	261775	262463	264475	262904	0.53	cps
Gadolinium	160-2	176220	171908	173217	173782	1.27	cps
Holmium	165-1	33170305	33683291	32883179	33245591	1.22	cps
Holmium	165-2	20427968	20366375	20264217	20352853	0.41	cps
Indium	115-1	27284940	27175824	27454799	27305188	0.51	cps
Indium	115-2	9131519	9169690	9031534	9110914	0.78	cps
Iron	56-2	1101035984	1093076384	1085724864	1093279077	0.70	cps
Iron	57-2	26546419	26350605	26600380	26499135	0.50	cps
Iron	54-2	58943747	58531009	59544216	59006324	0.86	cps
Krypton	83-1	803	747	840	797	5.90	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1434162	1466580	1468759	1456500	1.33	cps
Lead	207-1	1246028	1265141	1261487	1257552	0.81	cps
Lead	208-1	5664769	5744813	5734314	5714632	0.76	cps
Lithium	6-1	1614751	1527319	1491108	1544392	4.12	cps
Magnesium	24-2	19649734	19431584	19709424	19596914	0.75	cps
Manganese	55-2	23535890	23338557	23807294	23560580	1.00	cps
Molybdenum	94-1	330215	334324	331401	331980	0.64	cps
Molybdenum	95-1	20254	19647	20835	20245	2.94	cps
Molybdenum	96-1	84770	86393	84713	85292	1.12	cps
Molybdenum	97-1	12365	12722	12505	12531	1.44	cps
Molybdenum	98-1	31597	31881	31043	31507	1.35	cps
Neodymium	150-1	528817	538322	539208	535449	1.08	cps
Neodymium	150-2	290610	290073	290024	290235	0.11	cps
Nickel	60-2	548820	552277	548607	549902	0.37	cps
Phosphorus	31-2	69460	68389	69138	68996	0.80	cps
Potassium	39-2	14171783	13911560	14094013	14059119	0.95	cps
Rhodium	103-1	25613208	25582925	25229745	25475293	0.84	cps
Rhodium	103-2	15065768	15236586	15123071	15141808	0.57	cps
Scandium	45-1	13426294	13058876	13135476	13206882	1.47	cps
Scandium	45-2	1361725	1334077	1337613	1344472	1.12	cps
Selenium	82-1	1572	1579	1460	1537	4.35	cps
Selenium	77-2	890	890	963	914	4.63	cps
Selenium	78-2	1357	1357	1347	1353	0.43	cps
Silicon	28-1	64391171	65345354	63553202	64429909	1.39	cps
Silver	107-1	18138	18201	18505	18282	1.07	cps
Silver	109-1	17277	17304	17531	17371	0.80	cps
Sodium	23-2	314848	314303	316427	315193	0.35	cps
Strontium	86-1	1008608	1017706	1020800	1015705	0.62	cps
Strontium	88-1	8996499	8964006	8989504	8983337	0.19	cps
Sulfur	34-1	203494	201837	198180	201170	1.35	cps
Terbium	159-1	34146012	33835366	34236856	34072745	0.62	cps
Terbium	159-2	20619117	20391446	20500973	20503845	0.56	cps
Thallium	203-1	13951	13917	14064	13977	0.55	cps
Thallium	205-1	32629	32312	32716	32552	0.65	cps
Tin	118-1	76914	78121	77708	77581	0.79	cps
Titanium	47-1	3905579	3930954	3913357	3916630	0.33	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-02	Instrumnet Name :	P7
Client Sample ID :	MYE4N6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:22:15	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	137279	140835	142149	140087	1.80	cps
Vanadium	51-2	1863937	1858240	1856057	1859411	0.22	cps
Yttrium	89-1	41413614	41592107	41633950	41546557	0.28	cps
Yttrium	89-2	11015327	10954960	10785142	10918476	1.09	cps
Zinc	66-2	650700	641905	642976	645194	0.74	cps
Zirconium	90-1	861224	874220	872379	869274	0.81	cps
Zirconium	91-1	194364	196504	196159	195676	0.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18058789	17648301	17738153	17815081	1.21	cps
Antimony	121-1	37987	38919	39367	38758	1.82	cps
Arsenic	75-2	179785	180466	177143	179131	0.98	cps
Barium	135-1	3319964	3357625	3360849	3346146	0.68	cps
Barium	137-1	5693528	5724887	5699976	5706130	0.29	cps
Beryllium	9-1	2339	2450	2272	2354	3.82	cps
Bismuth	209-1	19168830	19348021	18958691	19158514	1.02	cps
Bismuth	209-2	12969081	12973202	12904626	12948970	0.30	cps
Bromine	81-1	24968	26567	25659	25731	3.12	cps
Bromine	81-2	2230	2300	2134	2221	3.77	cps
Cadmium	108-1	1023	927	910	953	6.42	cps
Cadmium	106-1	11248	11114	10631	10998	2.95	cps
Cadmium	111-1	14689	14887	14166	14581	2.55	cps
Calcium	43-1	473514	476972	470853	473780	0.65	cps
Calcium	44-1	7561414	7592901	7490861	7548392	0.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1039765	1041052	1031481	1037433	0.50	cps
Cobalt	59-2	909061	904495	900054	904537	0.50	cps
Copper	63-2	1935772	1908294	1886983	1910350	1.28	cps
Dysprosium	156-1	198530	201812	198218	199520	1.00	cps
Dysprosium	156-2	155524	155635	152844	154668	1.02	cps
Erbium	164-1	150851	154150	152341	152447	1.08	cps
Erbium	164-2	96302	93718	92993	94338	1.84	cps
Gadolinium	160-1	178215	182516	180403	180378	1.19	cps
Gadolinium	160-2	119615	118836	117938	118796	0.71	cps
Holmium	165-1	32504741	33090525	32628879	32741382	0.94	cps
Holmium	165-2	20227520	20045126	20128983	20133876	0.45	cps
Indium	115-1	27305742	27043055	26890242	27079680	0.78	cps
Indium	115-2	9194828	9138385	9158005	9163739	0.31	cps
Iron	56-2	974552119	970988119	968393479	971311239	0.32	cps
Iron	57-2	23967824	24030126	23869870	23955940	0.34	cps
Iron	54-2	52838678	53136041	52678283	52884334	0.44	cps
Krypton	83-1	720	647	690	686	5.38	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	980586	986439	986344	984456	0.34	cps
Lead	207-1	840056	842984	851627	844889	0.71	cps
Lead	208-1	3821409	3847158	3862864	3843810	0.54	cps
Lithium	6-1	1541799	1480329	1435397	1485841	3.59	cps
Magnesium	24-2	16727704	16528097	16509697	16588499	0.73	cps
Manganese	55-2	26629510	26495755	26464648	26529971	0.33	cps
Molybdenum	94-1	219598	218537	217945	218693	0.38	cps
Molybdenum	95-1	17234	17347	17297	17293	0.33	cps
Molybdenum	96-1	61904	62837	62945	62562	0.92	cps
Molybdenum	97-1	10974	10664	10507	10715	2.22	cps
Molybdenum	98-1	26083	26611	27065	26586	1.85	cps
Neodymium	150-1	367654	373950	372657	371420	0.90	cps
Neodymium	150-2	201580	198963	200197	200247	0.65	cps
Nickel	60-2	450811	450072	452462	451115	0.27	cps
Phosphorus	31-2	57394	57073	57514	57327	0.40	cps
Potassium	39-2	9094184	9049239	9072319	9071914	0.25	cps
Rhodium	103-1	25688177	25361105	25231447	25426910	0.93	cps
Rhodium	103-2	15292924	15187075	15228919	15236306	0.35	cps
Scandium	45-1	12944886	12843845	12771183	12853304	0.68	cps
Scandium	45-2	1295914	1272526	1272475	1280305	1.06	cps
Selenium	82-1	1459	1410	1468	1446	2.16	cps
Selenium	77-2	710	580	587	626	11.70	cps
Selenium	78-2	1103	1067	1243	1138	8.19	cps
Silicon	28-1	74235999	73052921	70918364	72735761	2.31	cps
Silver	107-1	9550	9553	9577	9560	0.15	cps
Silver	109-1	9080	8686	8666	8811	2.65	cps
Sodium	23-2	960657	954049	948641	954449	0.63	cps
Strontium	86-1	675511	690251	687325	684362	1.14	cps
Strontium	88-1	6054064	6125223	6049367	6076218	0.70	cps
Sulfur	34-1	281619	275415	273971	277001	1.47	cps
Terbium	159-1	33928574	34332864	33732711	33998050	0.90	cps
Terbium	159-2	20539015	20431141	20137863	20369339	1.02	cps
Thallium	203-1	11862	12446	12496	12268	2.87	cps
Thallium	205-1	28386	29018	29071	28825	1.32	cps
Tin	118-1	53573	54546	54536	54218	1.03	cps
Titanium	47-1	2267858	2230723	2226232	2241604	1.02	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-03	Instrumnet Name :	P7
Client Sample ID :	MYE4N7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:25:17	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	95177	98125	96406	96569	1.53	cps
Vanadium	51-2	1687517	1627544	1607886	1640982	2.53	cps
Yttrium	89-1	40790084	40426808	40694257	40637050	0.46	cps
Yttrium	89-2	10636061	10440061	10526967	10534363	0.93	cps
Zinc	66-2	506675	503787	502334	504265	0.44	cps
Zirconium	90-1	566056	572817	566869	568581	0.65	cps
Zirconium	91-1	126795	128601	127717	127704	0.71	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	16421279	16692971	16662208	16592153	0.90	cps
Antimony	121-1	47388	46873	47378	47213	0.62	cps
Arsenic	75-2	151288	149053	147673	149338	1.22	cps
Barium	135-1	2897184	2940575	2915369	2917709	0.75	cps
Barium	137-1	4876563	4971894	4911423	4919960	0.98	cps
Beryllium	9-1	1906	1895	1883	1895	0.59	cps
Bismuth	209-1	18979753	19589211	19275387	19281450	1.58	cps
Bismuth	209-2	13014014	13126482	13005752	13048749	0.52	cps
Bromine	81-1	25642	26484	27062	26396	2.70	cps
Bromine	81-2	2437	2417	2187	2347	5.92	cps
Cadmium	108-1	1000	1073	950	1008	6.16	cps
Cadmium	106-1	11121	10754	10247	10707	4.10	cps
Cadmium	111-1	15347	15553	15037	15312	1.69	cps
Calcium	43-1	411083	409881	409983	410316	0.16	cps
Calcium	44-1	6582678	6578058	6493539	6551425	0.77	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	879085	875832	878064	877660	0.19	cps
Cobalt	59-2	868124	864027	862219	864790	0.35	cps
Copper	63-2	1890446	1850127	1879225	1873266	1.11	cps
Dysprosium	156-1	168862	171733	170629	170408	0.85	cps
Dysprosium	156-2	130264	130587	131482	130777	0.48	cps
Erbium	164-1	132956	134688	135298	134314	0.90	cps
Erbium	164-2	83105	81365	82492	82321	1.07	cps
Gadolinium	160-1	153906	156517	157342	155922	1.15	cps
Gadolinium	160-2	102273	103036	102911	102740	0.40	cps
Holmium	165-1	32701718	32997805	32998779	32899434	0.52	cps
Holmium	165-2	20304859	20077494	19973525	20118626	0.84	cps
Indium	115-1	26957603	27222940	26934541	27038362	0.59	cps
Indium	115-2	9275690	9233814	9179359	9229621	0.52	cps
Iron	56-2	851352947	847930227	841916494	847066556	0.56	cps
Iron	57-2	21143132	20877639	21266708	21095827	0.94	cps
Iron	54-2	46517733	46633046	46817938	46656239	0.32	cps
Krypton	83-1	700	700	620	673	6.86	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1303666	1329637	1346510	1326604	1.63	cps
Lead	207-1	1121915	1148543	1137628	1136028	1.18	cps
Lead	208-1	5096218	5283719	5198535	5192824	1.81	cps
Lithium	6-1	1579741	1466465	1515219	1520475	3.74	cps
Magnesium	24-2	14320051	14179824	14204405	14234760	0.53	cps
Manganese	55-2	20424378	20515398	20229460	20389745	0.72	cps
Molybdenum	94-1	154754	157467	155860	156027	0.87	cps
Molybdenum	95-1	17400	17200	17621	17407	1.21	cps
Molybdenum	96-1	51249	51387	51290	51309	0.14	cps
Molybdenum	97-1	10487	10504	10797	10596	1.65	cps
Molybdenum	98-1	27038	26995	27533	27189	1.10	cps
Neodymium	150-1	309429	314273	315501	313068	1.03	cps
Neodymium	150-2	168588	167074	166804	167489	0.57	cps
Nickel	60-2	371469	367241	366735	368481	0.71	cps
Phosphorus	31-2	50710	51654	51382	51249	0.95	cps
Potassium	39-2	8735069	8584389	8602718	8640725	0.95	cps
Rhodium	103-1	25429355	25315628	25473515	25406166	0.32	cps
Rhodium	103-2	15333365	15176337	14979044	15162915	1.17	cps
Scandium	45-1	12913817	12820077	12800878	12844924	0.47	cps
Scandium	45-2	1289219	1294393	1280137	1287917	0.56	cps
Selenium	82-1	1290	1362	1394	1349	3.93	cps
Selenium	77-2	473	537	510	507	6.28	cps
Selenium	78-2	960	1123	1013	1032	8.07	cps
Silicon	28-1	67337252	67187211	67228291	67250918	0.12	cps
Silver	107-1	7745	7856	7912	7838	1.08	cps
Silver	109-1	7662	7502	7642	7602	1.15	cps
Sodium	23-2	210627	208367	209644	209546	0.54	cps
Strontium	86-1	421714	422373	421728	421938	0.09	cps
Strontium	88-1	3696723	3716518	3723815	3712352	0.38	cps
Sulfur	34-1	190954	186800	184466	187406	1.75	cps
Terbium	159-1	34271268	34537325	34456734	34421776	0.40	cps
Terbium	159-2	20471661	20476976	20225852	20391496	0.70	cps
Thallium	203-1	9540	9834	9977	9784	2.28	cps
Thallium	205-1	22522	23046	23287	22952	1.70	cps
Tin	118-1	58773	58746	60048	59189	1.26	cps
Titanium	47-1	2228060	2181334	2163992	2191128	1.51	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-04	Instrumnet Name :	P7
Client Sample ID :	MYE4N8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:28:18	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	78932	80273	79123	79443	0.91	cps
Vanadium	51-2	1600069	1569870	1569501	1579813	1.11	cps
Yttrium	89-1	40213057	39850599	40078318	40047325	0.46	cps
Yttrium	89-2	10622041	10495048	10378326	10498472	1.16	cps
Zinc	66-2	557949	554656	551368	554658	0.59	cps
Zirconium	90-1	394323	392348	395778	394150	0.44	cps
Zirconium	91-1	87686	88907	88361	88318	0.69	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6286695	6213036	6268284	6256005	0.61	cps
Antimony	121-1	6231	6311	6735	6426	4.21	cps
Arsenic	75-2	17931	18295	18168	18131	1.02	cps
Barium	135-1	2132538	2142641	2103707	2126295	0.95	cps
Barium	137-1	3652738	3675917	3664309	3664321	0.32	cps
Beryllium	9-1	906	778	717	800	12.05	cps
Bismuth	209-1	19056986	19053823	19129578	19080129	0.22	cps
Bismuth	209-2	13133641	13216453	12861629	13070574	1.42	cps
Bromine	81-1	21162	21302	21038	21167	0.62	cps
Bromine	81-2	1270	1230	1307	1269	3.02	cps
Cadmium	108-1	447	393	503	448	12.29	cps
Cadmium	106-1	10080	10751	10327	10386	3.27	cps
Cadmium	111-1	8390	9134	8537	8687	4.53	cps
Calcium	43-1	3880105	3842175	3783996	3835425	1.26	cps
Calcium	44-1	61709851	61975514	61396977	61694114	0.47	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	503101	504055	501706	502954	0.23	cps
Cobalt	59-2	279924	279333	281008	280088	0.30	cps
Copper	63-2	501010	494695	496412	497373	0.66	cps
Dysprosium	156-1	119994	120887	120246	120376	0.38	cps
Dysprosium	156-2	94357	95857	95800	95338	0.89	cps
Erbium	164-1	103842	105182	105461	104828	0.83	cps
Erbium	164-2	64263	64468	63999	64243	0.37	cps
Gadolinium	160-1	112198	113424	111936	112519	0.71	cps
Gadolinium	160-2	75844	74266	73709	74606	1.48	cps
Holmium	165-1	32611417	32729360	32507903	32616226	0.34	cps
Holmium	165-2	20510206	20180797	19961515	20217506	1.37	cps
Indium	115-1	26897901	27176143	27088948	27054331	0.53	cps
Indium	115-2	9209591	9170664	9176194	9185483	0.23	cps
Iron	56-2	288131696	288208916	288148856	288163156	0.01	cps
Iron	57-2	7160733	7136106	7134021	7143620	0.21	cps
Iron	54-2	15648655	15593401	15872042	15704699	0.94	cps
Krypton	83-1	587	663	590	613	7.07	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	178628	180062	183551	180747	1.40	cps
Lead	207-1	140548	140757	143296	141534	1.08	cps
Lead	208-1	672420	684085	688426	681643	1.21	cps
Lithium	6-1	1553692	1439356	1436975	1476674	4.52	cps
Magnesium	24-2	19264367	19237990	19165273	19222543	0.27	cps
Manganese	55-2	5426391	5461555	5447687	5445211	0.33	cps
Molybdenum	94-1	163541	167685	165295	165507	1.26	cps
Molybdenum	95-1	7685	7835	7866	7795	1.24	cps
Molybdenum	96-1	37815	37876	37799	37830	0.11	cps
Molybdenum	97-1	4884	4938	4824	4882	1.16	cps
Molybdenum	98-1	11902	12038	12155	12032	1.05	cps
Neodymium	150-1	228458	230712	231106	230092	0.62	cps
Neodymium	150-2	124350	123232	124282	123955	0.51	cps
Nickel	60-2	313195	311215	310109	311506	0.50	cps
Phosphorus	31-2	38401	39478	39574	39151	1.66	cps
Potassium	39-2	2710724	2671380	2702383	2694829	0.77	cps
Rhodium	103-1	25208620	25314557	25321330	25281502	0.25	cps
Rhodium	103-2	15460268	15007642	15188724	15218878	1.50	cps
Scandium	45-1	12526470	12279053	12427587	12411037	1.00	cps
Scandium	45-2	1251980	1246117	1265661	1254586	0.80	cps
Selenium	82-1	1323	1154	1241	1239	6.83	cps
Selenium	77-2	393	337	403	378	9.52	cps
Selenium	78-2	910	960	940	937	2.69	cps
Silicon	28-1	57163549	55619494	56136651	56306565	1.40	cps
Silver	107-1	2307	2450	2300	2352	3.60	cps
Silver	109-1	1963	1987	1897	1949	2.40	cps
Sodium	23-2	1304088	1281584	1271645	1285772	1.29	cps
Strontium	86-1	1016448	1031414	1024332	1024065	0.73	cps
Strontium	88-1	9123134	9168359	9209391	9166962	0.47	cps
Sulfur	34-1	228711	241154	238419	236094	2.77	cps
Terbium	159-1	33705426	34000623	34202230	33969426	0.74	cps
Terbium	159-2	20610724	20217383	20348653	20392254	0.98	cps
Thallium	203-1	2644	2934	2797	2791	5.20	cps
Thallium	205-1	6572	6498	6465	6512	0.84	cps
Tin	118-1	42764	45154	43780	43899	2.73	cps
Titanium	47-1	3481772	3454484	3475212	3470489	0.41	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-05	Instrumnet Name :	P7
Client Sample ID :	MYE4N9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:31:20	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	94915	96919	96117	95983	1.05	cps
Vanadium	51-2	541730	537920	542271	540640	0.44	cps
Yttrium	89-1	39823406	39568901	40198499	39863602	0.79	cps
Yttrium	89-2	10489603	10280775	10386249	10385542	1.01	cps
Zinc	66-2	139130	138007	139332	138823	0.51	cps
Zirconium	90-1	433111	439125	438037	436758	0.73	cps
Zirconium	91-1	97488	98732	97099	97773	0.87	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	28371212	28573285	28162636	28369045	0.72	cps
Antimony	121-1	50779	51525	51569	51291	0.87	cps
Arsenic	75-2	229253	227453	227659	228122	0.43	cps
Barium	135-1	2027838	1997373	2042022	2022411	1.13	cps
Barium	137-1	3461744	3425392	3461634	3449590	0.61	cps
Beryllium	9-1	1761	1828	1850	1813	2.55	cps
Bismuth	209-1	19593395	19199257	19132763	19308472	1.29	cps
Bismuth	209-2	12661084	12872534	12819172	12784263	0.86	cps
Bromine	81-1	26878	28254	28067	27733	2.69	cps
Bromine	81-2	2517	2834	2680	2677	5.92	cps
Cadmium	108-1	1097	1123	1050	1090	3.41	cps
Cadmium	106-1	11905	11518	11318	11580	2.58	cps
Cadmium	111-1	19334	18741	19046	19040	1.56	cps
Calcium	43-1	968746	967151	958677	964858	0.56	cps
Calcium	44-1	15538144	15506171	15404753	15483022	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	656400	659681	656443	657508	0.29	cps
Cobalt	59-2	1186016	1177536	1178458	1180670	0.39	cps
Copper	63-2	2570301	2527142	2554411	2550618	0.86	cps
Dysprosium	156-1	161979	165560	167442	164994	1.68	cps
Dysprosium	156-2	127677	126376	127452	127168	0.55	cps
Erbium	164-1	147233	150635	148294	148721	1.17	cps
Erbium	164-2	90665	91681	92154	91500	0.83	cps
Gadolinium	160-1	153673	154670	154740	154361	0.39	cps
Gadolinium	160-2	100443	100655	102129	101076	0.91	cps
Holmium	165-1	33149831	33522362	33068260	33246818	0.73	cps
Holmium	165-2	19907262	20014129	20224832	20048741	0.81	cps
Indium	115-1	27449284	26838494	27202558	27163445	1.13	cps
Indium	115-2	9105896	9036859	9102551	9081769	0.43	cps
Iron	56-2	1207003742	1199297155	1208990435	1205097111	0.42	cps
Iron	57-2	29712460	29734620	29869759	29772280	0.29	cps
Iron	54-2	65526194	65606239	65963666	65698700	0.35	cps
Krypton	83-1	710	697	607	671	8.38	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	660534	674014	681831	672126	1.60	cps
Lead	207-1	567013	571599	576712	571775	0.85	cps
Lead	208-1	2599131	2627638	2649761	2625510	0.97	cps
Lithium	6-1	1489917	1411391	1434355	1445221	2.79	cps
Magnesium	24-2	19307726	19226187	19064318	19199410	0.65	cps
Manganese	55-2	25021652	24769267	25111803	24967574	0.71	cps
Molybdenum	94-1	104554	105046	106719	105440	1.08	cps
Molybdenum	95-1	18909	18979	19022	18970	0.30	cps
Molybdenum	96-1	47540	48042	50256	48613	2.97	cps
Molybdenum	97-1	11395	12022	11415	11610	3.07	cps
Molybdenum	98-1	28959	29206	29637	29267	1.17	cps
Neodymium	150-1	285837	289169	287617	287541	0.58	cps
Neodymium	150-2	153095	153691	155200	153995	0.70	cps
Nickel	60-2	254044	256527	255711	255427	0.50	cps
Phosphorus	31-2	43124	42997	43622	43248	0.76	cps
Potassium	39-2	4684363	4770515	4600263	4685047	1.82	cps
Rhodium	103-1	26017901	25661983	25283275	25654386	1.43	cps
Rhodium	103-2	15154406	15211006	14944550	15103321	0.93	cps
Scandium	45-1	13154661	13051504	12838561	13014909	1.24	cps
Scandium	45-2	1304135	1316443	1291115	1303898	0.97	cps
Selenium	82-1	1356	1416	1305	1359	4.10	cps
Selenium	77-2	413	533	477	474	12.65	cps
Selenium	78-2	1053	983	1037	1024	3.57	cps
Silicon	28-1	61158272	61102369	59729676	60663439	1.33	cps
Silver	107-1	20181	20728	20358	20422	1.37	cps
Silver	109-1	19493	19493	19173	19386	0.95	cps
Sodium	23-2	746666	742304	751411	746794	0.61	cps
Strontium	86-1	826026	836447	827158	829877	0.69	cps
Strontium	88-1	7396987	7390696	7398278	7395320	0.05	cps
Sulfur	34-1	215778	192865	182462	197035	8.65	cps
Terbium	159-1	34728023	34599137	33910979	34412713	1.28	cps
Terbium	159-2	20375035	20230321	19983253	20196203	0.98	cps
Thallium	203-1	7532	7559	7832	7641	2.17	cps
Thallium	205-1	17802	17899	18152	17951	1.01	cps
Tin	118-1	60185	60483	61678	60782	1.30	cps
Titanium	47-1	5200407	5175684	5115144	5163745	0.85	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-06	Instrumnet Name :	P7
Client Sample ID :	MYE4P0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:34:22	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73344	75047	75824	74738	1.70	cps
Vanadium	51-2	1951221	1952212	1968628	1957354	0.50	cps
Yttrium	89-1	42071927	40720638	40757297	41183287	1.87	cps
Yttrium	89-2	10560419	10608706	10541215	10570113	0.33	cps
Zinc	66-2	981778	983305	981902	982328	0.09	cps
Zirconium	90-1	257966	255042	256509	256505	0.57	cps
Zirconium	91-1	58051	57445	58118	57871	0.64	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	35361043	34897225	34748423	35002230	0.91	cps
Antimony	121-1	59770	61323	62123	61072	1.96	cps
Arsenic	75-2	223461	221853	221745	222353	0.43	cps
Barium	135-1	2037144	2079611	2038847	2051867	1.17	cps
Barium	137-1	3473628	3486415	3535223	3498422	0.93	cps
Beryllium	9-1	1683	1633	1545	1620	4.34	cps
Bismuth	209-1	18947910	18711174	18883414	18847499	0.65	cps
Bismuth	209-2	12689888	12631739	12775071	12698899	0.57	cps
Bromine	81-1	24270	24747	25636	24884	2.79	cps
Bromine	81-2	2074	2097	2204	2125	3.26	cps
Cadmium	108-1	1453	1637	1513	1535	6.09	cps
Cadmium	106-1	11395	11501	11084	11327	1.91	cps
Cadmium	111-1	25861	25681	25612	25718	0.50	cps
Calcium	43-1	1279225	1257604	1295441	1277423	1.49	cps
Calcium	44-1	21159756	20910451	20774790	20948332	0.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	700429	688750	683529	690902	1.25	cps
Cobalt	59-2	1883192	1848997	1847691	1859960	1.08	cps
Copper	63-2	3417491	3408622	3433016	3419710	0.36	cps
Dysprosium	156-1	122593	125592	126527	124904	1.65	cps
Dysprosium	156-2	89446	88574	88869	88963	0.50	cps
Erbium	164-1	139471	140774	142993	141079	1.26	cps
Erbium	164-2	86603	87683	86368	86885	0.81	cps
Gadolinium	160-1	132076	131813	132348	132079	0.20	cps
Gadolinium	160-2	88849	86186	85680	86905	1.96	cps
Holmium	165-1	32714338	32548721	32793276	32685445	0.38	cps
Holmium	165-2	19881793	20151459	20198163	20077138	0.85	cps
Indium	115-1	26994446	27028468	26773860	26932258	0.51	cps
Indium	115-2	8947606	8917240	8877638	8914161	0.39	cps
Iron	56-2	1582755656	1586087496	1600262323	1589701825	0.58	cps
Iron	57-2	39802233	39709661	39653062	39721652	0.19	cps
Iron	54-2	86787409	86596805	86014415	86466210	0.47	cps
Krypton	83-1	750	677	633	687	8.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	694408	708001	708005	703471	1.12	cps
Lead	207-1	597528	605173	607125	603275	0.84	cps
Lead	208-1	2708961	2768166	2767936	2748354	1.24	cps
Lithium	6-1	1417841	1367366	1353254	1379487	2.46	cps
Magnesium	24-2	25055906	24623901	24718676	24799495	0.92	cps
Manganese	55-2	35802607	35869309	35516805	35729574	0.52	cps
Molybdenum	94-1	58473	58784	58617	58624	0.27	cps
Molybdenum	95-1	24861	25068	24988	24972	0.42	cps
Molybdenum	96-1	47878	49239	49223	48780	1.60	cps
Molybdenum	97-1	15789	15228	15422	15479	1.84	cps
Molybdenum	98-1	38183	38871	38701	38585	0.93	cps
Neodymium	150-1	171120	172872	174570	172854	1.00	cps
Neodymium	150-2	95024	93390	92652	93689	1.30	cps
Nickel	60-2	248926	247938	249112	248659	0.25	cps
Phosphorus	31-2	47901	47293	46501	47232	1.49	cps
Potassium	39-2	3324513	3252440	3284994	3287316	1.10	cps
Rhodium	103-1	24726239	25002625	24675146	24801337	0.71	cps
Rhodium	103-2	14885704	14882915	14929391	14899337	0.17	cps
Scandium	45-1	13203486	12760139	12928041	12963889	1.73	cps
Scandium	45-2	1294519	1299286	1300414	1298073	0.24	cps
Selenium	82-1	1224	1252	1296	1257	2.90	cps
Selenium	77-2	377	413	370	387	6.03	cps
Selenium	78-2	937	910	793	880	8.66	cps
Silicon	28-1	67124819	67211851	66363271	66899980	0.70	cps
Silver	107-1	35199	35296	35607	35367	0.60	cps
Silver	109-1	33956	34093	33662	33904	0.65	cps
Sodium	23-2	1104524	1054533	1095087	1084715	2.45	cps
Strontium	86-1	1072882	1078261	1077644	1076262	0.27	cps
Strontium	88-1	9447126	9423809	9539339	9470091	0.65	cps
Sulfur	34-1	176496	173401	170045	173314	1.86	cps
Terbium	159-1	34101548	34228929	34071241	34133906	0.25	cps
Terbium	159-2	20592323	20302049	20103501	20332624	1.21	cps
Thallium	203-1	7646	7622	7492	7587	1.09	cps
Thallium	205-1	16750	17591	17832	17391	3.26	cps
Tin	118-1	46498	46368	45779	46215	0.83	cps
Titanium	47-1	6668651	6647781	6708746	6675059	0.46	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-07	Instrumnet Name :	P7
Client Sample ID :	MYE4P1	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:37:25	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	50485	51737	50820	51014	1.27	cps
Vanadium	51-2	2555089	2555426	2512349	2540955	0.97	cps
Yttrium	89-1	40823470	40434223	40077130	40444941	0.92	cps
Yttrium	89-2	10463129	10437176	10520610	10473638	0.41	cps
Zinc	66-2	1359363	1347567	1358352	1355094	0.48	cps
Zirconium	90-1	118288	121198	120119	119868	1.23	cps
Zirconium	91-1	27382	26674	27382	27146	1.51	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25540016	25546864	25280330	25455737	0.60	cps
Antimony	121-1	46716	47231	47659	47202	1.00	cps
Arsenic	75-2	187934	187839	187950	187908	0.03	cps
Barium	135-1	4218183	4315761	4321731	4285225	1.36	cps
Barium	137-1	7171121	7244065	7246166	7220450	0.59	cps
Beryllium	9-1	2939	2656	2778	2791	5.09	cps
Bismuth	209-1	19386190	19394681	19242858	19341243	0.44	cps
Bismuth	209-2	12872055	12918134	13027625	12939271	0.62	cps
Bromine	81-1	30976	32215	32386	31859	2.42	cps
Bromine	81-2	3567	3634	3537	3579	1.38	cps
Cadmium	108-1	1223	1137	1347	1236	8.54	cps
Cadmium	106-1	11828	11772	11241	11614	2.79	cps
Cadmium	111-1	17337	17731	17333	17467	1.31	cps
Calcium	43-1	886596	890724	877420	884914	0.77	cps
Calcium	44-1	14216359	14297664	14033110	14182378	0.96	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1180285	1176859	1164807	1173984	0.69	cps
Cobalt	59-2	988695	989553	985693	987980	0.21	cps
Copper	63-2	3044983	2915924	3009386	2990098	2.23	cps
Dysprosium	156-1	259056	263345	266295	262899	1.38	cps
Dysprosium	156-2	203283	202770	202009	202687	0.32	cps
Erbium	164-1	205853	210538	209932	208775	1.22	cps
Erbium	164-2	129157	127476	128387	128340	0.66	cps
Gadolinium	160-1	247348	251036	249974	249453	0.76	cps
Gadolinium	160-2	161881	161913	161621	161805	0.10	cps
Holmium	165-1	33862405	32524833	32490329	32959189	2.37	cps
Holmium	165-2	20107328	20184953	20245001	20179094	0.34	cps
Indium	115-1	27222592	26754216	26475501	26817436	1.41	cps
Indium	115-2	9118026	9090228	9022801	9077018	0.54	cps
Iron	56-2	1074929611	1069920251	1067284917	1070711593	0.36	cps
Iron	57-2	27132195	26476249	26532299	26713581	1.36	cps
Iron	54-2	58508957	58378791	57857366	58248371	0.59	cps
Krypton	83-1	693	743	770	736	5.29	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1327698	1363319	1354049	1348355	1.37	cps
Lead	207-1	1152487	1175550	1179472	1169170	1.25	cps
Lead	208-1	5222180	5418417	5305930	5315509	1.85	cps
Lithium	6-1	1496400	1468392	1451764	1472185	1.53	cps
Magnesium	24-2	19665141	19876693	19654548	19732127	0.64	cps
Manganese	55-2	23860410	23944111	23668511	23824344	0.59	cps
Molybdenum	94-1	267110	267784	267483	267459	0.13	cps
Molybdenum	95-1	19340	19620	19380	19446	0.78	cps
Molybdenum	96-1	72398	74562	74495	73818	1.67	cps
Molybdenum	97-1	11958	11958	12102	12006	0.69	cps
Molybdenum	98-1	30405	29787	30261	30151	1.07	cps
Neodymium	150-1	495672	508479	507623	503925	1.42	cps
Neodymium	150-2	271156	270285	268837	270093	0.43	cps
Nickel	60-2	511411	509417	506570	509133	0.48	cps
Phosphorus	31-2	71101	70213	70083	70466	0.79	cps
Potassium	39-2	14003826	13695149	13835491	13844822	1.12	cps
Rhodium	103-1	25400300	25096087	24867686	25121358	1.06	cps
Rhodium	103-2	14913969	15087559	15015993	15005840	0.58	cps
Scandium	45-1	13395085	12820694	12841042	13018940	2.50	cps
Scandium	45-2	1325620	1289746	1292499	1302622	1.53	cps
Selenium	82-1	1594	1522	1628	1581	3.41	cps
Selenium	77-2	923	853	930	902	4.71	cps
Selenium	78-2	1220	1153	1253	1209	4.21	cps
Silicon	28-1	65308839	63551951	64036241	64299010	1.41	cps
Silver	107-1	15618	15395	15685	15566	0.98	cps
Silver	109-1	14898	14447	14557	14634	1.60	cps
Sodium	23-2	375184	374341	373078	374201	0.28	cps
Strontium	86-1	958893	964621	967868	963794	0.47	cps
Strontium	88-1	8611748	8531731	8655648	8599709	0.73	cps
Sulfur	34-1	214311	207696	205627	209211	2.17	cps
Terbium	159-1	34543916	34004996	34260457	34269790	0.79	cps
Terbium	159-2	20246356	20246450	20250788	20247865	0.01	cps
Thallium	203-1	13707	14311	13961	13993	2.17	cps
Thallium	205-1	31857	32746	32910	32504	1.74	cps
Tin	118-1	68987	70974	71232	70397	1.74	cps
Titanium	47-1	3276931	3338108	3292048	3302362	0.96	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08	Instrumnet Name :	P7
Client Sample ID :	MYE4P2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:40:23	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	120862	123681	124658	123067	1.60	cps
Vanadium	51-2	1901864	1899749	1891705	1897773	0.28	cps
Yttrium	89-1	41683822	40759191	40602982	41015332	1.42	cps
Yttrium	89-2	10606831	10639565	10524767	10590388	0.56	cps
Zinc	66-2	634411	628361	632722	631831	0.49	cps
Zirconium	90-1	684137	701732	695462	693777	1.29	cps
Zirconium	91-1	153729	157252	157111	156031	1.28	cps

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LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24392985	24298107	24221750	24304280	0.35	cps
Antimony	121-1	44773	45592	44913	45093	0.97	cps
Arsenic	75-2	182197	182281	180779	181752	0.46	cps
Barium	135-1	4046406	4120880	4191669	4119652	1.76	cps
Barium	137-1	6992932	7045407	7114629	7050989	0.87	cps
Beryllium	9-1	2667	2578	2522	2589	2.81	cps
Bismuth	209-1	18862852	19100379	19340550	19101260	1.25	cps
Bismuth	209-2	12895385	12825311	12732573	12817757	0.64	cps
Bromine	81-1	30816	31550	30996	31121	1.23	cps
Bromine	81-2	3254	3390	3394	3346	2.39	cps
Cadmium	108-1	1147	1143	1273	1188	6.24	cps
Cadmium	106-1	11818	11191	11388	11466	2.80	cps
Cadmium	111-1	17247	16800	16813	16953	1.50	cps
Calcium	43-1	854681	857175	846407	852754	0.66	cps
Calcium	44-1	13731517	13569191	13664206	13654971	0.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1129399	1124418	1125973	1126597	0.23	cps
Cobalt	59-2	946963	942542	938438	942648	0.45	cps
Copper	63-2	2929880	2871632	2879420	2893644	1.09	cps
Dysprosium	156-1	251887	254102	254788	253592	0.60	cps
Dysprosium	156-2	192579	193866	193092	193179	0.34	cps
Erbium	164-1	197493	201299	201499	200097	1.13	cps
Erbium	164-2	122992	121492	123432	122639	0.83	cps
Gadolinium	160-1	236871	239650	239090	238537	0.62	cps
Gadolinium	160-2	155465	155829	154400	155231	0.48	cps
Holmium	165-1	32326577	32586824	32888175	32600525	0.86	cps
Holmium	165-2	20243876	19933436	19833545	20003619	1.07	cps
Indium	115-1	26579066	26623142	26333210	26511806	0.59	cps
Indium	115-2	8952081	8802899	8948303	8901094	0.96	cps
Iron	56-2	1036039451	1026273878	1027927958	1030080429	0.51	cps
Iron	57-2	26002555	25482331	25467934	25650940	1.19	cps
Iron	54-2	56511502	55935344	55771251	56072699	0.69	cps
Krypton	83-1	687	757	827	757	9.25	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1281388	1308942	1321234	1303855	1.56	cps
Lead	207-1	1121096	1132365	1147721	1133727	1.18	cps
Lead	208-1	5102758	5150116	5206869	5153248	1.01	cps
Lithium	6-1	1535695	1493478	1488207	1505793	1.73	cps
Magnesium	24-2	18948554	18916933	19025201	18963562	0.29	cps
Manganese	55-2	22844082	22687286	22902477	22811282	0.49	cps
Molybdenum	94-1	254661	256080	255249	255330	0.28	cps
Molybdenum	95-1	18235	18011	18028	18091	0.69	cps
Molybdenum	96-1	69528	69980	70646	70051	0.80	cps
Molybdenum	97-1	11051	11345	11158	11184	1.33	cps
Molybdenum	98-1	28060	28458	28224	28247	0.71	cps
Neodymium	150-1	480232	487733	490574	486180	1.10	cps
Neodymium	150-2	262593	258976	259786	260452	0.73	cps
Nickel	60-2	488703	490297	483489	487497	0.73	cps
Phosphorus	31-2	67886	67943	68713	68181	0.68	cps
Potassium	39-2	13256214	13258859	13225319	13246797	0.14	cps
Rhodium	103-1	24883756	24863528	24761468	24836251	0.26	cps
Rhodium	103-2	14965271	14872353	14766030	14867884	0.67	cps
Scandium	45-1	12704546	12736946	12723843	12721778	0.13	cps
Scandium	45-2	1287763	1287381	1261146	1278763	1.19	cps
Selenium	82-1	1579	1437	1304	1440	9.53	cps
Selenium	77-2	867	853	913	878	3.59	cps
Selenium	78-2	1093	1253	1257	1201	7.77	cps
Silicon	28-1	63820792	63829064	63835494	63828450	0.01	cps
Silver	107-1	14914	14617	14824	14785	1.03	cps
Silver	109-1	13730	13930	14227	13962	1.79	cps
Sodium	23-2	362987	361383	363131	362500	0.27	cps
Strontium	86-1	927874	925687	924457	926006	0.19	cps
Strontium	88-1	8223709	8356785	8211631	8264041	0.97	cps
Sulfur	34-1	208860	208800	204034	207231	1.34	cps
Terbium	159-1	33405203	34146065	34162798	33904689	1.28	cps
Terbium	159-2	20205423	20112288	20086076	20134596	0.31	cps
Thallium	203-1	12996	13260	13553	13270	2.10	cps
Thallium	205-1	30765	30591	31563	30973	1.67	cps
Tin	118-1	66975	67792	68629	67799	1.22	cps
Titanium	47-1	3178945	3182671	3136696	3166104	0.81	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-09	Instrumnet Name :	P7
Client Sample ID :	MYE4P2D	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 00:43:25	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	118733	119812	121216	119920	1.04	cps
Vanadium	51-2	1861012	1828973	1828159	1839381	1.02	cps
Yttrium	89-1	40131708	40570232	40307899	40336613	0.55	cps
Yttrium	89-2	10502743	10397758	10446729	10449076	0.50	cps
Zinc	66-2	607159	605648	605803	606204	0.14	cps
Zirconium	90-1	661551	664474	664703	663576	0.26	cps
Zirconium	91-1	147418	150071	149611	149033	0.95	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30778052	30400552	30981130	30719911	0.96	cps
Antimony	121-1	13697139	14009652	14094539	13933776	1.50	cps
Arsenic	75-2	862333	852223	847747	854101	0.87	cps
Barium	135-1	16372529	16796709	17012079	16727105	1.95	cps
Barium	137-1	28415127	28384965	28843564	28547885	0.90	cps
Beryllium	9-1	934655	950376	1020877	968636	4.74	cps
Bismuth	209-1	15378466	15503733	15715578	15532592	1.10	cps
Bismuth	209-2	11371323	11164368	11198479	11244724	0.99	cps
Bromine	81-1	18455	18064	18308	18276	1.08	cps
Bromine	81-2	213	177	167	186	13.24	cps
Cadmium	108-1	266797	272778	274894	271490	1.55	cps
Cadmium	106-1	385926	394313	396538	392259	1.43	cps
Cadmium	111-1	3730456	3800657	3748481	3759865	0.97	cps
Calcium	43-1	16816514	17321173	17226887	17121525	1.57	cps
Calcium	44-1	271810229	280544222	279168303	277174251	1.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6149817	6145473	6119424	6138238	0.27	cps
Cobalt	59-2	10455912	10314078	10420647	10396879	0.71	cps
Copper	63-2	73091692	72421804	72428846	72647447	0.53	cps
Dysprosium	156-1	617	597	657	623	4.90	cps
Dysprosium	156-2	1093	1133	1080	1102	2.52	cps
Erbium	164-1	843	777	827	816	4.25	cps
Erbium	164-2	543	560	493	532	6.52	cps
Gadolinium	160-1	583	643	683	637	7.91	cps
Gadolinium	160-2	1363	1330	1503	1399	6.58	cps
Holmium	165-1	28613200	29168124	29066137	28949153	1.02	cps
Holmium	165-2	19211023	19162051	19149069	19174048	0.17	cps
Indium	115-1	24347455	25215586	24941358	24834799	1.79	cps
Indium	115-2	9231131	9074882	9035766	9113926	1.13	cps
Iron	56-2	1373088620	1372902433	1372317580	1372769544	0.03	cps
Iron	57-2	34245730	34174041	34263330	34227701	0.14	cps
Iron	54-2	75883714	74646724	74774082	75101507	0.91	cps
Krypton	83-1	547	567	560	558	1.83	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	43093024	44806781	44425596	44108467	2.04	cps
Lead	207-1	38053238	39765693	39039229	38952720	2.21	cps
Lead	208-1	172548897	178620269	176982037	176050401	1.78	cps
Lithium	6-1	1903477	1925024	1900945	1909816	0.69	cps
Magnesium	24-2	256506016	255403296	250275583	254061632	1.31	cps
Manganese	55-2	47391456	47363846	47290021	47348441	0.11	cps
Molybdenum	94-1	49777884	50705543	51074069	50519165	1.32	cps
Molybdenum	95-1	72744214	73997227	74160682	73634041	1.05	cps
Molybdenum	96-1	79542007	80666384	80766644	80325012	0.85	cps
Molybdenum	97-1	45393804	45613086	45649768	45552219	0.30	cps
Molybdenum	98-1	118258638	119087958	119188862	118845153	0.43	cps
Neodymium	150-1	837	860	900	866	3.70	cps
Neodymium	150-2	223	297	310	277	16.87	cps
Nickel	60-2	2636367	2591608	2632800	2620259	0.95	cps
Phosphorus	31-2	306439	302220	305431	304697	0.72	cps
Potassium	39-2	166413098	166133604	166992654	166513119	0.26	cps
Rhodium	103-1	22759269	23389205	23397555	23182010	1.58	cps
Rhodium	103-2	14230521	13951574	14006015	14062703	1.05	cps
Scandium	45-1	13365726	13865676	13896408	13709270	2.17	cps
Scandium	45-2	1383579	1377209	1389903	1383564	0.46	cps
Selenium	82-1	214320	216862	216640	215941	0.65	cps
Selenium	77-2	23429	24220	24100	23916	1.78	cps
Selenium	78-2	80055	80467	79733	80085	0.46	cps
Silicon	28-1	7970269	8121401	8156278	8082649	1.22	cps
Silver	107-1	18641106	19132759	18904971	18892946	1.30	cps
Silver	109-1	17574572	17865651	17799215	17746479	0.86	cps
Sodium	23-2	400793487	396262314	398093887	398383230	0.57	cps
Strontium	86-1	4732227	4832508	4802230	4788988	1.07	cps
Strontium	88-1	40957753	42359625	42145678	41821019	1.81	cps
Sulfur	34-1	1213811	1243474	1265941	1241075	2.11	cps
Terbium	159-1	29366495	30023389	30597573	29995819	2.05	cps
Terbium	159-2	19461234	19185306	19240604	19295714	0.76	cps
Thallium	203-1	11076337	11429557	11127624	11211173	1.70	cps
Thallium	205-1	25949414	26959613	26494454	26467827	1.91	cps
Tin	118-1	11382097	11641097	11646209	11556468	1.31	cps
Titanium	47-1	16237080	16919836	16970459	16709125	2.45	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P7
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:00:03	DataFile Name :	054CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	34442367	35952530	35298464	35231120	2.15	cps
Vanadium	51-2	5515291	5502690	5467321	5495101	0.45	cps
Yttrium	89-1	36863859	37887379	37868813	37540017	1.56	cps
Yttrium	89-2	10558007	10439426	10528174	10508535	0.59	cps
Zinc	66-2	11892316	11743399	11703760	11779825	0.84	cps
Zirconium	90-1	24550926	25046750	24851792	24816489	1.01	cps
Zirconium	91-1	5380892	5573230	5565211	5506444	1.98	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	763	697	670	710	6.77	cps
Antimony	121-1	5334	6405	7766	6502	18.74	cps
Arsenic	75-2	63	40	53	52	22.41	cps
Barium	135-1	1130	747	533	803	37.64	cps
Barium	137-1	2037	1200	773	1337	48.08	cps
Beryllium	9-1	328	228	239	265	20.70	cps
Bismuth	209-1	17532153	17685309	17731075	17649512	0.59	cps
Bismuth	209-2	13140135	13049603	13101945	13097228	0.35	cps
Bromine	81-1	16619	16306	16716	16547	1.30	cps
Bromine	81-2	147	203	167	172	16.69	cps
Cadmium	108-1	70	60	50	60	16.67	cps
Cadmium	106-1	10234	9910	9847	9997	2.08	cps
Cadmium	111-1	7528	7192	7058	7259	3.34	cps
Calcium	43-1	1913	1340	1160	1471	26.74	cps
Calcium	44-1	85537	76820	71943	78100	8.82	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1940	1960	2127	2009	5.10	cps
Cobalt	59-2	387	340	297	341	13.20	cps
Copper	63-2	4271	4114	4154	4180	1.95	cps
Dysprosium	156-1	43	30	20	31	37.62	cps
Dysprosium	156-2	20	17	7	14	48.02	cps
Erbium	164-1	233	270	203	236	14.17	cps
Erbium	164-2	140	153	157	150	5.88	cps
Gadolinium	160-1	160	153	133	149	9.32	cps
Gadolinium	160-2	1060	967	1050	1026	5.00	cps
Holmium	165-1	30214147	30475599	30563632	30417793	0.60	cps
Holmium	165-2	20169588	20330842	20215416	20238615	0.41	cps
Indium	115-1	27515116	27381540	27849410	27582022	0.87	cps
Indium	115-2	10069927	10188050	10106934	10121637	0.60	cps
Iron	56-2	76949	73636	71284	73956	3.85	cps
Iron	57-2	3390	3254	3280	3308	2.19	cps
Iron	54-2	7649	7415	7225	7430	2.86	cps
Krypton	83-1	517	533	490	513	4.26	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4694	3150	2607	3484	31.08	cps
Lead	207-1	4261	2984	2187	3144	33.28	cps
Lead	208-1	19025	12919	10098	14014	32.56	cps
Lithium	6-1	2093938	2118190	2152161	2121430	1.38	cps
Magnesium	24-2	7422	6962	6558	6981	6.19	cps
Manganese	55-2	9663	10080	10050	9931	2.34	cps
Molybdenum	94-1	5191	3560	3174	3975	26.93	cps
Molybdenum	95-1	6435	4687	3994	5039	24.96	cps
Molybdenum	96-1	7279	4864	4354	5499	28.41	cps
Molybdenum	97-1	4031	2830	2464	3108	26.37	cps
Molybdenum	98-1	10781	7382	6435	8199	27.87	cps
Neodymium	150-1	17	13	17	16	12.40	cps
Neodymium	150-2	7	17	17	13	43.29	cps
Nickel	60-2	317	263	377	319	17.78	cps
Phosphorus	31-2	447	363	487	432	14.56	cps
Potassium	39-2	140794	139738	136939	139157	1.43	cps
Rhodium	103-1	26230196	26639802	26672820	26514273	0.93	cps
Rhodium	103-2	16053499	16080940	16178613	16104351	0.41	cps
Scandium	45-1	14204913	14395461	14491919	14364098	1.02	cps
Scandium	45-2	1415154	1428430	1430434	1424673	0.58	cps
Selenium	82-1	1187	1254	1292	1244	4.25	cps
Selenium	77-2	7	0	7	4	86.60	cps
Selenium	78-2	743	797	780	773	3.53	cps
Silicon	28-1	1633115	1621742	1628184	1627680	0.35	cps
Silver	107-1	2140	1647	1370	1719	22.69	cps
Silver	109-1	2084	1573	1267	1641	25.14	cps
Sodium	23-2	97929	96419	95067	96472	1.48	cps
Strontium	86-1	1393	1277	1137	1269	10.13	cps
Strontium	88-1	5504	3904	2657	4022	35.49	cps
Sulfur	34-1	266638	266374	265197	266070	0.29	cps
Terbium	159-1	31874651	31980740	32313790	32056394	0.71	cps
Terbium	159-2	20434765	20742989	20537231	20571662	0.76	cps
Thallium	203-1	3057	2707	2380	2715	12.47	cps
Thallium	205-1	7255	5915	5545	6238	14.43	cps
Tin	118-1	3204	2840	2870	2971	6.79	cps
Titanium	47-1	1470	997	697	1054	36.98	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P7
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:02:45	DataFile Name :	055CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2550	1597	960	1702	47.01	cps
Vanadium	51-2	143	123	73	113	31.82	cps
Yttrium	89-1	39627308	39835929	40498292	39987176	1.14	cps
Yttrium	89-2	11184150	11181346	11164490	11176662	0.10	cps
Zinc	66-2	1830	1757	1787	1791	2.06	cps
Zirconium	90-1	3600	2750	2567	2973	18.55	cps
Zirconium	91-1	780	627	470	626	24.78	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6714954	6878234	6812078	6801755	1.21	cps
Antimony	121-1	12249	13159	14231	13213	7.51	cps
Arsenic	75-2	46599	46529	45781	46303	0.98	cps
Barium	135-1	881197	887108	893131	887145	0.67	cps
Barium	137-1	1518177	1527568	1545908	1530551	0.92	cps
Beryllium	9-1	967	939	917	941	2.66	cps
Bismuth	209-1	17624538	17599480	18064233	17762750	1.47	cps
Bismuth	209-2	12966271	12861649	12896634	12908185	0.41	cps
Bromine	81-1	20174	20668	21830	20890	4.07	cps
Bromine	81-2	893	827	1017	912	10.57	cps
Cadmium	108-1	240	297	300	279	12.09	cps
Cadmium	106-1	10674	10861	10824	10786	0.92	cps
Cadmium	111-1	9701	9705	9870	9759	0.99	cps
Calcium	43-1	224476	228406	228366	227083	0.99	cps
Calcium	44-1	3687670	3667881	3742499	3699350	1.04	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	291512	291977	290142	291210	0.33	cps
Cobalt	59-2	240657	239041	238045	239248	0.55	cps
Copper	63-2	717775	713885	707559	713073	0.72	cps
Dysprosium	156-1	54867	55134	54971	54991	0.25	cps
Dysprosium	156-2	45597	44092	44778	44822	1.68	cps
Erbium	164-1	41161	42110	41993	41754	1.24	cps
Erbium	164-2	27213	27070	27150	27144	0.27	cps
Gadolinium	160-1	50119	50357	50862	50446	0.75	cps
Gadolinium	160-2	35548	34850	35298	35232	1.00	cps
Holmium	165-1	30433814	31498385	31058125	30996775	1.73	cps
Holmium	165-2	20330479	20442798	20409191	20394156	0.28	cps
Indium	115-1	27070198	27553295	28236738	27620077	2.12	cps
Indium	115-2	10361376	10222314	10379997	10321229	0.83	cps
Iron	56-2	269218249	267177429	264867716	267087798	0.81	cps
Iron	57-2	6574544	6507366	6523636	6535182	0.54	cps
Iron	54-2	14680347	14432254	14502751	14538450	0.88	cps
Krypton	83-1	553	530	650	578	11.01	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	264606	265823	266661	265697	0.39	cps
Lead	207-1	228895	227633	229659	228729	0.45	cps
Lead	208-1	1042103	1044920	1048894	1045306	0.33	cps
Lithium	6-1	2075356	2039816	1926604	2013925	3.86	cps
Magnesium	24-2	5090061	5172576	5096997	5119878	0.89	cps
Manganese	55-2	6143069	6101730	6055872	6100223	0.72	cps
Molybdenum	94-1	59453	60059	60317	59943	0.74	cps
Molybdenum	95-1	5094	5264	5444	5268	3.32	cps
Molybdenum	96-1	16760	17424	17467	17217	2.30	cps
Molybdenum	97-1	3054	3364	3614	3344	8.39	cps
Molybdenum	98-1	8192	8292	8673	8386	3.02	cps
Neodymium	150-1	103889	103624	104107	103873	0.23	cps
Neodymium	150-2	59756	59977	60579	60104	0.71	cps
Nickel	60-2	123524	122929	122730	123061	0.34	cps
Phosphorus	31-2	19105	18848	18708	18887	1.07	cps
Potassium	39-2	3800161	3756175	3759657	3771998	0.65	cps
Rhodium	103-1	26237758	26769352	27214365	26740492	1.83	cps
Rhodium	103-2	16398539	16297585	16289866	16328663	0.37	cps
Scandium	45-1	14598692	14691885	15007621	14766066	1.45	cps
Scandium	45-2	1528454	1523602	1542396	1531484	0.64	cps
Selenium	82-1	1475	1560	1354	1463	7.09	cps
Selenium	77-2	227	270	243	247	8.86	cps
Selenium	78-2	1077	1013	1033	1041	3.11	cps
Silicon	28-1	18176169	18030530	17767609	17991436	1.15	cps
Silver	107-1	4187	4357	4254	4266	2.01	cps
Silver	109-1	3867	3961	4007	3945	1.81	cps
Sodium	23-2	177280	179638	180453	179124	0.92	cps
Strontium	86-1	218589	221835	223575	221333	1.14	cps
Strontium	88-1	1943234	2017753	1995705	1985564	1.93	cps
Sulfur	34-1	277120	273737	274130	274996	0.67	cps
Terbium	159-1	32150335	32733232	32913117	32598895	1.22	cps
Terbium	159-2	20677326	20735328	20707238	20706631	0.14	cps
Thallium	203-1	5398	5278	5018	5231	3.71	cps
Thallium	205-1	12219	11769	11468	11819	3.20	cps
Tin	118-1	17457	17067	17224	17249	1.14	cps
Titanium	47-1	787863	789225	793598	790229	0.38	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08LX5	Instrumnet Name :	P7
Client Sample ID :	MYE4P2L	Dilution Factor :	5
Date & Time Acquired :	2024-11-10 01:06:02	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	23701	23601	23915	23739	0.68	cps
Vanadium	51-2	462000	459360	454135	458498	0.87	cps
Yttrium	89-1	40467366	41960236	42525204	41650935	2.55	cps
Yttrium	89-2	11731946	11622331	11718301	11690860	0.51	cps
Zinc	66-2	156052	157891	155897	156614	0.71	cps
Zirconium	90-1	152933	156130	156827	155297	1.34	cps
Zirconium	91-1	34073	35326	35145	34848	1.94	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30791947	30599644	31129634	30840408	0.87	cps
Antimony	121-1	2162716	2210216	2157812	2176915	1.33	cps
Arsenic	75-2	261628	257958	257470	259019	0.88	cps
Barium	135-1	14061646	14198415	14142937	14134333	0.49	cps
Barium	137-1	24292884	23919722	24072022	24094876	0.78	cps
Beryllium	9-1	61566	59391	56982	59313	3.87	cps
Bismuth	209-1	17136372	17505472	17671906	17437917	1.57	cps
Bismuth	209-2	12142407	12351173	12221118	12238233	0.86	cps
Bromine	81-1	34163	35840	36582	35528	3.49	cps
Bromine	81-2	4087	3904	3807	3933	3.62	cps
Cadmium	108-1	18438	18852	18549	18613	1.15	cps
Cadmium	106-1	37752	37528	36773	37351	1.37	cps
Cadmium	111-1	282436	287077	284953	284822	0.82	cps
Calcium	43-1	1022012	1017125	998617	1012585	1.22	cps
Calcium	44-1	16534210	16539721	15974196	16349376	1.99	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3235971	3167162	3198191	3200442	1.08	cps
Cobalt	59-2	8224922	8277993	8189904	8230940	0.54	cps
Copper	63-2	5771665	5760653	5695104	5742474	0.72	cps
Dysprosium	156-1	257943	259132	257694	258256	0.30	cps
Dysprosium	156-2	204467	208587	208208	207087	1.10	cps
Erbium	164-1	195907	198028	199515	197817	0.92	cps
Erbium	164-2	128975	127061	125121	127052	1.52	cps
Gadolinium	160-1	237856	238716	240146	238906	0.48	cps
Gadolinium	160-2	160340	159335	160087	159921	0.33	cps
Holmium	165-1	30537171	31432255	31297712	31089046	1.55	cps
Holmium	165-2	20187869	20260594	20044420	20164295	0.55	cps
Indium	115-1	27527147	27961417	27900019	27796194	0.85	cps
Indium	115-2	9953082	9962593	9939573	9951749	0.12	cps
Iron	56-2	1253135848	1231078115	1228881475	1237698479	1.08	cps
Iron	57-2	30429557	30357454	30531141	30439384	0.29	cps
Iron	54-2	67715631	67316072	67396206	67475970	0.31	cps
Krypton	83-1	767	920	867	851	9.15	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1466701	1505739	1495985	1489475	1.36	cps
Lead	207-1	1282488	1292337	1301193	1292006	0.72	cps
Lead	208-1	5878152	5848726	5884238	5870372	0.32	cps
Lithium	6-1	1702639	1530273	1508455	1580456	6.73	cps
Magnesium	24-2	22874275	22659355	23180956	22904862	1.14	cps
Manganese	55-2	31508477	31036197	30703412	31082695	1.30	cps
Molybdenum	94-1	282056	286746	286517	285106	0.93	cps
Molybdenum	95-1	20765	21459	21896	21373	2.67	cps
Molybdenum	96-1	78496	79257	78586	78780	0.53	cps
Molybdenum	97-1	12846	13186	12792	12941	1.65	cps
Molybdenum	98-1	32626	33108	32336	32690	1.19	cps
Neodymium	150-1	487994	486792	490468	488418	0.38	cps
Neodymium	150-2	273486	272694	269639	271940	0.75	cps
Nickel	60-2	2443064	2422931	2425983	2430659	0.45	cps
Phosphorus	31-2	83942	83704	81854	83167	1.37	cps
Potassium	39-2	16376774	16497126	16414336	16429412	0.37	cps
Rhodium	103-1	25971600	26190702	26644556	26268953	1.31	cps
Rhodium	103-2	16139593	16533952	16129031	16267525	1.42	cps
Scandium	45-1	14883036	14800830	14662512	14782126	0.75	cps
Scandium	45-2	1540526	1579168	1555623	1558439	1.25	cps
Selenium	82-1	22439	22403	22474	22439	0.16	cps
Selenium	77-2	3287	3017	3327	3210	5.25	cps
Selenium	78-2	8783	8973	8573	8776	2.28	cps
Silicon	28-1	74480949	72620042	69753892	72284961	3.29	cps
Silver	107-1	1093961	1109401	1103208	1102190	0.70	cps
Silver	109-1	1044154	1059300	1049290	1050915	0.73	cps
Sodium	23-2	499744	505656	504345	503248	0.62	cps
Strontium	86-1	1029536	1046608	1039643	1038596	0.83	cps
Strontium	88-1	9218936	9324904	9355753	9299864	0.77	cps
Sulfur	34-1	294635	281391	277017	284348	3.23	cps
Terbium	159-1	32075902	32767123	33206634	32683220	1.74	cps
Terbium	159-2	20550788	20758179	20394657	20567875	0.89	cps
Thallium	203-1	852089	868188	860130	860136	0.94	cps
Thallium	205-1	2022020	2019098	1991002	2010707	0.85	cps
Tin	118-1	72128	72736	72270	72378	0.44	cps
Titanium	47-1	3735861	3708403	3735762	3726675	0.42	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-10	Instrumnet Name :	P7
Client Sample ID :	MYE4P2S	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:09:10	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	108309	108460	106728	107832	0.89	cps
Vanadium	51-2	6006265	6088800	6095935	6063667	0.82	cps
Yttrium	89-1	42820873	44582301	44743203	44048792	2.42	cps
Yttrium	89-2	12028382	12143099	12118499	12096660	0.50	cps
Zinc	66-2	1555710	1562104	1559795	1559203	0.21	cps
Zirconium	90-1	742113	748078	742904	744365	0.44	cps
Zirconium	91-1	166577	167521	165148	166415	0.72	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	31900666	31875789	31768520	31848325	0.22	cps
Antimony	121-1	8741512	8685735	8652363	8693203	0.52	cps
Arsenic	75-2	394108	391367	389695	391724	0.57	cps
Barium	135-1	44762448	44922358	45617148	45100651	1.01	cps
Barium	137-1	76431542	76896682	78140534	77156253	1.15	cps
Beryllium	9-1	224607	221995	217002	221202	1.75	cps
Bismuth	209-1	16878594	17675278	17858590	17470821	2.98	cps
Bismuth	209-2	12382849	12444535	12526035	12451140	0.58	cps
Bromine	81-1	34126	34470	35346	34647	1.81	cps
Bromine	81-2	3894	3897	3781	3857	1.72	cps
Cadmium	108-1	72775	74299	72979	73351	1.13	cps
Cadmium	106-1	110731	111960	113788	112160	1.37	cps
Cadmium	111-1	1103635	1120887	1117108	1113876	0.81	cps
Calcium	43-1	958209	952868	953510	954862	0.31	cps
Calcium	44-1	15466254	15244251	15361797	15357434	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8756781	8801281	8686762	8748275	0.66	cps
Cobalt	59-2	31129551	30950593	30779089	30953078	0.57	cps
Copper	63-2	13538012	13324864	13366577	13409818	0.84	cps
Dysprosium	156-1	250539	252980	252216	251912	0.50	cps
Dysprosium	156-2	202594	202280	200758	201877	0.49	cps
Erbium	164-1	192524	197457	195225	195069	1.27	cps
Erbium	164-2	122861	124580	123073	123505	0.76	cps
Gadolinium	160-1	231485	233059	235124	233223	0.78	cps
Gadolinium	160-2	158473	157704	156207	157461	0.73	cps
Holmium	165-1	30644172	31425106	31960242	31343173	2.11	cps
Holmium	165-2	19948457	20221344	20256953	20142252	0.84	cps
Indium	115-1	27229604	27482119	28003494	27571739	1.43	cps
Indium	115-2	9836738	9891548	9698560	9808949	1.01	cps
Iron	56-2	1202020115	1212236435	1216905929	1210387493	0.63	cps
Iron	57-2	30037926	30229509	29405810	29891082	1.44	cps
Iron	54-2	66982484	66171841	66142584	66432303	0.72	cps
Krypton	83-1	873	780	787	813	6.40	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2320736	2389384	2329966	2346695	1.59	cps
Lead	207-1	2055216	2056798	2039489	2050501	0.47	cps
Lead	208-1	9297944	9399423	9254995	9317454	0.80	cps
Lithium	6-1	1458987	1451757	1446942	1452562	0.42	cps
Magnesium	24-2	21962496	21901778	21664564	21842946	0.72	cps
Manganese	55-2	40741251	40449606	40365614	40518824	0.49	cps
Molybdenum	94-1	273957	278383	278763	277035	0.96	cps
Molybdenum	95-1	20484	21306	21062	20951	2.01	cps
Molybdenum	96-1	75779	78647	77806	77410	1.90	cps
Molybdenum	97-1	12452	12946	12469	12622	2.22	cps
Molybdenum	98-1	32870	32780	33191	32947	0.66	cps
Neodymium	150-1	473224	488847	483951	482007	1.66	cps
Neodymium	150-2	268630	265819	265843	266764	0.61	cps
Nickel	60-2	8272403	8237333	8280103	8263280	0.28	cps
Phosphorus	31-2	80064	79569	78637	79423	0.91	cps
Potassium	39-2	16024651	15681192	15684135	15796659	1.25	cps
Rhodium	103-1	25284029	26319060	26214318	25939136	2.20	cps
Rhodium	103-2	16052061	16053903	15850539	15985501	0.73	cps
Scandium	45-1	14047465	14313269	14390794	14250509	1.26	cps
Scandium	45-2	1525925	1492207	1515784	1511305	1.14	cps
Selenium	82-1	143110	145290	145535	144645	0.92	cps
Selenium	77-2	16436	16403	16069	16302	1.25	cps
Selenium	78-2	51740	52155	52048	51981	0.41	cps
Silicon	28-1	70266699	68772742	68347507	69128983	1.46	cps
Silver	107-1	4616494	4568276	4558105	4580959	0.68	cps
Silver	109-1	4387651	4470903	4437085	4431880	0.94	cps
Sodium	23-2	484956	477839	481929	481575	0.74	cps
Strontium	86-1	995578	1000503	1016487	1004189	1.09	cps
Strontium	88-1	9019766	8891723	9084451	8998647	1.09	cps
Sulfur	34-1	264292	258709	252928	258643	2.20	cps
Terbium	159-1	31804311	33068608	33220248	32697722	2.38	cps
Terbium	159-2	20588323	20405867	20246451	20413547	0.84	cps
Thallium	203-1	3604628	3555965	3597610	3586068	0.73	cps
Thallium	205-1	8611499	8298892	8375776	8428723	1.93	cps
Tin	118-1	71959	71922	71188	71690	0.61	cps
Titanium	47-1	3484478	3479859	3497796	3487378	0.27	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-08MS	Instrumnet Name :	P7
Client Sample ID :	MYE4P2SRE	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:12:06	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	105729	107510	108488	107242	1.30	cps
Vanadium	51-2	18188026	17880406	17963410	18010614	0.88	cps
Yttrium	89-1	42755974	43371831	43809143	43312316	1.22	cps
Yttrium	89-2	11815510	11939503	11726762	11827258	0.90	cps
Zinc	66-2	4169183	4172176	4202404	4181254	0.44	cps
Zirconium	90-1	713628	722680	723402	719903	0.76	cps
Zirconium	91-1	159596	162718	163173	161829	1.20	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21983782	22298631	22222833	22168415	0.74	cps
Antimony	121-1	56213	57779	57842	57278	1.61	cps
Arsenic	75-2	238622	237984	239201	238602	0.26	cps
Barium	135-1	3634902	3632083	3651743	3639576	0.29	cps
Barium	137-1	6187999	6170219	6184204	6180807	0.15	cps
Beryllium	9-1	2117	2117	2034	2089	2.30	cps
Bismuth	209-1	17620667	17748598	17669929	17679731	0.36	cps
Bismuth	209-2	12326261	12549969	12319497	12398576	1.06	cps
Bromine	81-1	25579	27011	27148	26580	3.27	cps
Bromine	81-2	2254	1977	2237	2156	7.20	cps
Cadmium	108-1	950	990	1087	1009	6.96	cps
Cadmium	106-1	11995	11778	11118	11630	3.93	cps
Cadmium	111-1	15564	15361	15147	15357	1.36	cps
Calcium	43-1	616178	607680	602152	608670	1.16	cps
Calcium	44-1	9700932	9711522	9487803	9633419	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	917128	903572	902439	907713	0.90	cps
Cobalt	59-2	1065135	1048829	1043271	1052412	1.08	cps
Copper	63-2	2298557	2276777	2263059	2279464	0.79	cps
Dysprosium	156-1	190467	189349	189188	189668	0.37	cps
Dysprosium	156-2	149038	150483	148607	149376	0.66	cps
Erbium	164-1	147618	144418	146849	146295	1.14	cps
Erbium	164-2	91947	93994	92671	92871	1.12	cps
Gadolinium	160-1	173093	169824	173582	172166	1.19	cps
Gadolinium	160-2	116671	115471	115037	115726	0.73	cps
Holmium	165-1	30912601	31576980	32071229	31520270	1.84	cps
Holmium	165-2	19970628	20410372	20178395	20186465	1.09	cps
Indium	115-1	27306756	27484358	27545013	27445375	0.45	cps
Indium	115-2	9723725	9871494	9866370	9820530	0.85	cps
Iron	56-2	1089743344	1084850704	1088067504	1087553850	0.23	cps
Iron	57-2	26803294	26416156	26496811	26572087	0.77	cps
Iron	54-2	59242034	59535099	59035852	59270995	0.42	cps
Krypton	83-1	797	693	727	739	7.14	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	783252	779730	789321	784101	0.62	cps
Lead	207-1	673447	664925	683347	673906	1.37	cps
Lead	208-1	3043752	3048229	3069668	3053883	0.45	cps
Lithium	6-1	1499094	1371933	1371976	1414335	5.19	cps
Magnesium	24-2	16795762	16818859	16726168	16780263	0.29	cps
Manganese	55-2	30070108	29799447	29829535	29899697	0.50	cps
Molybdenum	94-1	198269	200885	200612	199922	0.72	cps
Molybdenum	95-1	17264	17551	17421	17412	0.83	cps
Molybdenum	96-1	59166	60682	60538	60129	1.39	cps
Molybdenum	97-1	10621	10961	10694	10758	1.66	cps
Molybdenum	98-1	26437	27018	27072	26843	1.31	cps
Neodymium	150-1	343116	343683	347686	344828	0.72	cps
Neodymium	150-2	189649	191948	191342	190980	0.62	cps
Nickel	60-2	390446	388445	385331	388074	0.66	cps
Phosphorus	31-2	48420	48694	48192	48435	0.52	cps
Potassium	39-2	7052034	6888855	6966949	6969279	1.17	cps
Rhodium	103-1	25517939	26456930	26590132	26188334	2.23	cps
Rhodium	103-2	16147049	15927439	16122346	16065611	0.75	cps
Scandium	45-1	13932424	13786511	13722859	13813931	0.78	cps
Scandium	45-2	1468824	1483955	1478001	1476927	0.52	cps
Selenium	82-1	1329	1581	1427	1446	8.77	cps
Selenium	77-2	643	640	660	648	1.65	cps
Selenium	78-2	1313	1297	1277	1296	1.42	cps
Silicon	28-1	68645842	66342512	65809844	66932733	2.25	cps
Silver	107-1	15829	15739	15315	15627	1.76	cps
Silver	109-1	14884	14604	14351	14613	1.83	cps
Sodium	23-2	544352	542507	546939	544599	0.41	cps
Strontium	86-1	613711	621984	621302	618999	0.74	cps
Strontium	88-1	5455750	5610046	5511778	5525858	1.41	cps
Sulfur	34-1	214865	210276	206938	210693	1.89	cps
Terbium	159-1	32287484	32591556	33328613	32735884	1.64	cps
Terbium	159-2	20489763	20356671	20518792	20455075	0.42	cps
Thallium	203-1	10828	10861	10621	10770	1.21	cps
Thallium	205-1	26132	25477	25661	25757	1.31	cps
Tin	118-1	51686	51659	51974	51773	0.34	cps
Titanium	47-1	3480482	3370510	3359063	3403352	1.97	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-11	Instrumnet Name :	P7
Client Sample ID :	MYE4P3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:14:54	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	72114	72409	72456	72326	0.26	cps
Vanadium	51-2	2008706	2012742	1994849	2005433	0.47	cps
Yttrium	89-1	41577337	42783404	42789048	42383263	1.65	cps
Yttrium	89-2	11631134	11558851	11685094	11625027	0.54	cps
Zinc	66-2	569728	570084	569562	569791	0.05	cps
Zirconium	90-1	509224	522026	516742	515997	1.25	cps
Zirconium	91-1	113730	118668	115887	116095	2.13	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25562034	25416268	25324128	25434143	0.47	cps
Antimony	121-1	55028	55761	56069	55619	0.96	cps
Arsenic	75-2	243333	241801	241439	242191	0.42	cps
Barium	135-1	3512763	3452218	3444112	3469698	1.08	cps
Barium	137-1	5986835	5917170	5927065	5943690	0.63	cps
Beryllium	9-1	2695	2572	2584	2617	2.58	cps
Bismuth	209-1	17535358	17796945	17933783	17755362	1.14	cps
Bismuth	209-2	12176601	12341349	12255646	12257866	0.67	cps
Bromine	81-1	28765	29232	29650	29216	1.52	cps
Bromine	81-2	2850	2757	2740	2783	2.13	cps
Cadmium	108-1	1173	1187	1030	1130	7.69	cps
Cadmium	106-1	12005	11678	11395	11693	2.61	cps
Cadmium	111-1	17082	16664	16678	16808	1.41	cps
Calcium	43-1	809964	799622	796613	802066	0.87	cps
Calcium	44-1	12953686	12565763	12729885	12749778	1.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1124866	1120603	1124086	1123185	0.20	cps
Cobalt	59-2	1235382	1231934	1226345	1231220	0.37	cps
Copper	63-2	2485777	2513377	2439377	2479511	1.51	cps
Dysprosium	156-1	235480	236504	233906	235296	0.56	cps
Dysprosium	156-2	184816	184992	184340	184716	0.18	cps
Erbium	164-1	180858	184732	181311	182301	1.16	cps
Erbium	164-2	114840	113628	113268	113912	0.72	cps
Gadolinium	160-1	212587	215486	216258	214777	0.90	cps
Gadolinium	160-2	144712	143419	144758	144296	0.53	cps
Holmium	165-1	30921995	31769100	31493563	31394886	1.38	cps
Holmium	165-2	19814978	20086187	19469728	19790297	1.56	cps
Indium	115-1	26296977	27406242	27160083	26954434	2.16	cps
Indium	115-2	9521438	9597038	9567719	9562065	0.40	cps
Iron	56-2	1257048275	1271962781	1249678008	1259563021	0.90	cps
Iron	57-2	31357015	31411484	30826861	31198453	1.04	cps
Iron	54-2	69638817	69485401	68275672	69133297	1.08	cps
Krypton	83-1	797	807	883	829	5.72	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	937723	949791	940963	942826	0.66	cps
Lead	207-1	794854	805366	802794	801005	0.68	cps
Lead	208-1	3651145	3712408	3720284	3694612	1.02	cps
Lithium	6-1	1365775	1404238	1299695	1356569	3.90	cps
Magnesium	24-2	19735138	19533879	19645362	19638126	0.51	cps
Manganese	55-2	31935426	32115501	31778739	31943222	0.53	cps
Molybdenum	94-1	230449	230517	227917	229628	0.65	cps
Molybdenum	95-1	18011	18448	19183	18547	3.19	cps
Molybdenum	96-1	67578	68386	67907	67957	0.60	cps
Molybdenum	97-1	11768	11208	11845	11607	3.00	cps
Molybdenum	98-1	28334	28608	29253	28732	1.64	cps
Neodymium	150-1	424120	426684	431660	427488	0.90	cps
Neodymium	150-2	235242	236960	233405	235202	0.76	cps
Nickel	60-2	497272	495469	495118	495953	0.23	cps
Phosphorus	31-2	58665	59877	59622	59388	1.08	cps
Potassium	39-2	8565493	8646799	8550741	8587678	0.60	cps
Rhodium	103-1	25243272	25904683	25751252	25633069	1.35	cps
Rhodium	103-2	15636683	15493849	15664667	15598399	0.59	cps
Scandium	45-1	13396907	13519768	13574591	13497089	0.67	cps
Scandium	45-2	1442308	1465703	1425268	1444426	1.41	cps
Selenium	82-1	1475	1577	1412	1488	5.61	cps
Selenium	77-2	753	717	750	740	2.74	cps
Selenium	78-2	1303	1340	1260	1301	3.08	cps
Silicon	28-1	72107449	71307467	68557461	70657459	2.64	cps
Silver	107-1	12389	12539	12422	12450	0.63	cps
Silver	109-1	12038	11711	11651	11800	1.76	cps
Sodium	23-2	539982	541790	536106	539293	0.54	cps
Strontium	86-1	741031	743031	739051	741038	0.27	cps
Strontium	88-1	6595259	6626125	6538291	6586558	0.68	cps
Sulfur	34-1	208259	203797	197202	203086	2.74	cps
Terbium	159-1	32115409	33089841	33435226	32880159	2.08	cps
Terbium	159-2	20002500	19965959	19884279	19950913	0.30	cps
Thallium	203-1	12289	12606	12446	12447	1.27	cps
Thallium	205-1	28887	29095	29198	29060	0.54	cps
Tin	118-1	61377	62217	60439	61345	1.45	cps
Titanium	47-1	3799858	3739204	3673210	3737424	1.69	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-12	Instrumnet Name :	P7
Client Sample ID :	MYE4P4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:17:56	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	87103	87948	89827	88293	1.58	cps
Vanadium	51-2	2274239	2297184	2257565	2276330	0.87	cps
Yttrium	89-1	41468638	42737456	42035442	42080512	1.51	cps
Yttrium	89-2	11518194	11444346	11465702	11476081	0.33	cps
Zinc	66-2	643283	649397	640187	644289	0.73	cps
Zirconium	90-1	594101	602042	601442	599195	0.74	cps
Zirconium	91-1	133245	134059	135849	134384	0.99	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	18815568	18708041	18710165	18744591	0.33	cps
Antimony	121-1	60493	60714	61420	60876	0.80	cps
Arsenic	75-2	179397	179471	178435	179101	0.32	cps
Barium	135-1	3000566	2977462	3004362	2994130	0.49	cps
Barium	137-1	5094955	5136264	5014327	5081848	1.22	cps
Beryllium	9-1	1922	1795	1967	1895	4.72	cps
Bismuth	209-1	17824271	18183298	18142944	18050171	1.09	cps
Bismuth	209-2	12480269	12643456	12470987	12531571	0.77	cps
Bromine	81-1	26113	26210	26808	26377	1.43	cps
Bromine	81-2	2087	2120	2010	2072	2.72	cps
Cadmium	108-1	1360	1413	1267	1347	5.51	cps
Cadmium	106-1	11885	11635	11645	11721	1.21	cps
Cadmium	111-1	19049	18973	19316	19113	0.94	cps
Calcium	43-1	606806	598468	591511	598928	1.28	cps
Calcium	44-1	9670255	9612819	9336122	9539732	1.87	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	943706	938092	944573	942124	0.37	cps
Cobalt	59-2	937608	925752	924661	929340	0.77	cps
Copper	63-2	3617972	3511476	3579656	3569701	1.51	cps
Dysprosium	156-1	189346	192011	190026	190461	0.73	cps
Dysprosium	156-2	150170	150284	151770	150741	0.59	cps
Erbium	164-1	141098	144291	142717	142702	1.12	cps
Erbium	164-2	88981	89964	90014	89653	0.65	cps
Gadolinium	160-1	175472	175800	174698	175323	0.32	cps
Gadolinium	160-2	115327	116842	116473	116214	0.68	cps
Holmium	165-1	30925656	31584642	31870801	31460366	1.54	cps
Holmium	165-2	19957340	20033268	20150353	20046987	0.49	cps
Indium	115-1	26849488	27616049	27264830	27243456	1.41	cps
Indium	115-2	9596493	9500171	9652845	9583170	0.81	cps
Iron	56-2	904560360	895313160	903854653	901242724	0.57	cps
Iron	57-2	22469063	22219947	22496496	22395169	0.68	cps
Iron	54-2	49117556	49297851	49008039	49141149	0.30	cps
Krypton	83-1	753	690	740	728	4.59	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1392062	1404685	1414907	1403885	0.82	cps
Lead	207-1	1236417	1223960	1229515	1229964	0.51	cps
Lead	208-1	5559895	5571279	5516806	5549327	0.52	cps
Lithium	6-1	1407183	1406662	1343243	1385696	2.65	cps
Magnesium	24-2	15957230	16139178	15948967	16015125	0.67	cps
Manganese	55-2	20254254	20083930	20225297	20187827	0.45	cps
Molybdenum	94-1	207578	208482	205245	207102	0.81	cps
Molybdenum	95-1	19236	18832	18669	18912	1.54	cps
Molybdenum	96-1	61167	62081	61104	61451	0.89	cps
Molybdenum	97-1	11598	11878	11074	11517	3.54	cps
Molybdenum	98-1	29780	29804	29025	29537	1.50	cps
Neodymium	150-1	362612	368856	363570	365013	0.92	cps
Neodymium	150-2	198766	197312	200839	198973	0.89	cps
Nickel	60-2	416244	414256	413273	414591	0.37	cps
Phosphorus	31-2	52436	51918	51871	52075	0.60	cps
Potassium	39-2	9732619	9595247	9680575	9669480	0.72	cps
Rhodium	103-1	25716495	25826327	25514605	25685809	0.62	cps
Rhodium	103-2	15867646	15718319	15889068	15825011	0.59	cps
Scandium	45-1	13382921	13327776	13425314	13378670	0.37	cps
Scandium	45-2	1428766	1415060	1405482	1416436	0.83	cps
Selenium	82-1	1548	1587	1566	1567	1.23	cps
Selenium	77-2	623	683	750	686	9.24	cps
Selenium	78-2	1270	1243	1253	1256	1.07	cps
Silicon	28-1	66648951	65926156	65249951	65941686	1.06	cps
Silver	107-1	17047	17117	16620	16928	1.59	cps
Silver	109-1	15909	16049	16306	16088	1.25	cps
Sodium	23-2	396408	398103	395739	396750	0.31	cps
Strontium	86-1	595632	594321	592787	594246	0.24	cps
Strontium	88-1	5290650	5245207	5323747	5286535	0.75	cps
Sulfur	34-1	205172	194859	192908	197646	3.33	cps
Terbium	159-1	32247541	33580862	33172798	33000400	2.07	cps
Terbium	159-2	20206399	20239784	20101248	20182477	0.36	cps
Thallium	203-1	11125	10828	10751	10901	1.81	cps
Thallium	205-1	25390	25147	25928	25488	1.57	cps
Tin	118-1	60614	61889	60580	61027	1.22	cps
Titanium	47-1	3082135	3089120	3079330	3083528	0.16	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-13	Instrumnet Name :	P7
Client Sample ID :	MYE4P5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:20:56	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	86767	86103	87153	86674	0.61	cps
Vanadium	51-2	1638407	1618160	1660283	1638950	1.29	cps
Yttrium	89-1	40905077	41673142	42355774	41644664	1.74	cps
Yttrium	89-2	11211586	11235990	11290569	11246048	0.36	cps
Zinc	66-2	579799	571552	569273	573541	0.97	cps
Zirconium	90-1	529337	534422	539295	534351	0.93	cps
Zirconium	91-1	119794	119680	118249	119241	0.72	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25437620	25528315	25663232	25543056	0.44	cps
Antimony	121-1	26955	27967	28936	27953	3.54	cps
Arsenic	75-2	123693	123462	122003	123053	0.74	cps
Barium	135-1	3032036	3076717	3056984	3055246	0.73	cps
Barium	137-1	5082757	5199130	5160898	5147595	1.15	cps
Beryllium	9-1	2389	2356	2400	2382	0.97	cps
Bismuth	209-1	17621582	18124651	18223965	17990066	1.80	cps
Bismuth	209-2	12502913	12430154	12245260	12392776	1.07	cps
Bromine	81-1	28474	29202	29663	29113	2.06	cps
Bromine	81-2	2874	2897	2727	2833	3.25	cps
Cadmium	108-1	973	933	920	942	2.95	cps
Cadmium	106-1	11128	11088	11011	11075	0.54	cps
Cadmium	111-1	13633	13916	13658	13736	1.14	cps
Calcium	43-1	927353	924726	915625	922568	0.67	cps
Calcium	44-1	14998810	15018302	14293517	14770210	2.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1144139	1148911	1132382	1141811	0.75	cps
Cobalt	59-2	979459	971545	970759	973921	0.49	cps
Copper	63-2	2476508	2473964	2414653	2455042	1.43	cps
Dysprosium	156-1	229932	237650	239490	235691	2.15	cps
Dysprosium	156-2	180649	184992	183881	183174	1.23	cps
Erbium	164-1	190656	196952	195164	194257	1.67	cps
Erbium	164-2	122585	120501	121130	121405	0.88	cps
Gadolinium	160-1	220109	225163	224559	223277	1.24	cps
Gadolinium	160-2	149508	147942	148389	148613	0.54	cps
Holmium	165-1	31679829	31835342	32220835	31912002	0.87	cps
Holmium	165-2	19964927	19900132	19718843	19861301	0.64	cps
Indium	115-1	26655641	26814094	27498052	26989262	1.66	cps
Indium	115-2	9419043	9285788	9563587	9422806	1.47	cps
Iron	56-2	1004555985	993691479	995253799	997833754	0.59	cps
Iron	57-2	24645648	24723345	24396562	24588518	0.69	cps
Iron	54-2	54871299	54519288	54130603	54507063	0.68	cps
Krypton	83-1	800	807	803	803	0.42	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	860990	878841	871982	870604	1.03	cps
Lead	207-1	727676	740559	744451	737562	1.19	cps
Lead	208-1	3338028	3401935	3390130	3376697	1.01	cps
Lithium	6-1	1487926	1394443	1347908	1410092	5.06	cps
Magnesium	24-2	18662190	18699993	18759410	18707198	0.26	cps
Manganese	55-2	20223827	20147386	20039619	20136944	0.46	cps
Molybdenum	94-1	214670	217191	215912	215924	0.58	cps
Molybdenum	95-1	16499	16059	16523	16360	1.60	cps
Molybdenum	96-1	60558	61636	61164	61119	0.88	cps
Molybdenum	97-1	9970	10270	10611	10284	3.12	cps
Molybdenum	98-1	25416	25479	24794	25230	1.50	cps
Neodymium	150-1	423156	434802	426032	427997	1.42	cps
Neodymium	150-2	235892	234532	234334	234919	0.36	cps
Nickel	60-2	434426	425529	424378	428111	1.28	cps
Phosphorus	31-2	61831	60760	61208	61266	0.88	cps
Potassium	39-2	9997660	10038286	10063471	10033139	0.33	cps
Rhodium	103-1	25136774	25663352	25532045	25444057	1.08	cps
Rhodium	103-2	15572117	15343173	15439740	15451677	0.74	cps
Scandium	45-1	13547137	13594756	13323334	13488409	1.07	cps
Scandium	45-2	1429964	1423423	1431733	1428373	0.31	cps
Selenium	82-1	1338	1439	1315	1364	4.83	cps
Selenium	77-2	780	753	707	747	4.97	cps
Selenium	78-2	1290	1230	1283	1268	2.59	cps
Silicon	28-1	69448456	67000174	68784616	68411082	1.85	cps
Silver	107-1	11008	10791	10641	10813	1.71	cps
Silver	109-1	9974	10267	10087	10109	1.46	cps
Sodium	23-2	518316	515092	515831	516413	0.33	cps
Strontium	86-1	773509	775900	779035	776148	0.36	cps
Strontium	88-1	6998496	6861294	6932604	6930798	0.99	cps
Sulfur	34-1	191899	190390	188770	190353	0.82	cps
Terbium	159-1	32167610	33388414	32537162	32697729	1.91	cps
Terbium	159-2	19957021	20100065	20401717	20152934	1.13	cps
Thallium	203-1	11298	11338	10981	11206	1.75	cps
Thallium	205-1	25905	26483	26292	26226	1.12	cps
Tin	118-1	65267	66231	66272	65923	0.86	cps
Titanium	47-1	3473597	3455788	3304218	3411201	2.73	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-14	Instrumnet Name :	P7
Client Sample ID :	MYE4Q2	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:23:58	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	99323	100549	99465	99779	0.67	cps
Vanadium	51-2	1872027	1898416	1870357	1880267	0.84	cps
Yttrium	89-1	41899024	42287681	41829432	42005379	0.59	cps
Yttrium	89-2	11396353	11232062	11195007	11274474	0.95	cps
Zinc	66-2	524664	517631	518627	520307	0.73	cps
Zirconium	90-1	563993	562655	560621	562423	0.30	cps
Zirconium	91-1	126137	126113	125847	126032	0.13	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24579237	24212558	24570850	24454215	0.86	cps
Antimony	121-1	118997	117909	118772	118559	0.48	cps
Arsenic	75-2	387205	382629	380616	383483	0.88	cps
Barium	135-1	3624990	3618486	3638274	3627250	0.28	cps
Barium	137-1	6143521	6238115	6213113	6198250	0.79	cps
Beryllium	9-1	2806	2917	2756	2826	2.92	cps
Bismuth	209-1	14824159	14675727	16265514	15255133	5.76	cps
Bismuth	209-2	12475004	12343077	12602061	12473381	1.04	cps
Bromine	81-1	23529	23976	25212	24239	3.60	cps
Bromine	81-2	1647	1767	1737	1717	3.64	cps
Cadmium	108-1	2504	2434	2544	2494	2.23	cps
Cadmium	106-1	12322	11752	11852	11975	2.54	cps
Cadmium	111-1	32316	32025	32913	32418	1.40	cps
Calcium	43-1	481293	468793	465784	471957	1.74	cps
Calcium	44-1	7703545	7641124	7454363	7599677	1.71	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1612574	1610243	1560152	1594323	1.86	cps
Cobalt	59-2	1269961	1258223	1263609	1263931	0.46	cps
Copper	63-2	7381068	7329928	7348363	7353120	0.35	cps
Dysprosium	156-1	234915	239280	238842	237679	1.01	cps
Dysprosium	156-2	181522	183953	183563	183012	0.71	cps
Erbium	164-1	189895	191915	191555	191122	0.56	cps
Erbium	164-2	117778	117412	119573	118254	0.98	cps
Gadolinium	160-1	221946	222582	222420	222316	0.15	cps
Gadolinium	160-2	146939	146106	142944	145329	1.45	cps
Holmium	165-1	26103880	25167163	27597924	26289656	4.66	cps
Holmium	165-2	19719720	19619849	19928345	19755971	0.80	cps
Indium	115-1	22095048	21038087	23672143	22268426	5.95	cps
Indium	115-2	9309906	9325760	9457189	9364285	0.86	cps
Iron	56-2	1609547443	1616164189	1580983550	1602231727	1.17	cps
Iron	57-2	39498420	39200405	38849241	39182689	0.83	cps
Iron	54-2	86658282	87206242	84795759	86220094	1.47	cps
Krypton	83-1	850	833	843	842	1.00	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3441317	3485016	3404761	3443698	1.17	cps
Lead	207-1	3088720	3078583	3084397	3083900	0.16	cps
Lead	208-1	13805341	13881183	13756043	13814189	0.46	cps
Lithium	6-1	1141052	1150272	1275410	1188911	6.31	cps
Magnesium	24-2	19575351	19420081	19230702	19408711	0.89	cps
Manganese	55-2	27152815	27365720	26689514	27069349	1.28	cps
Molybdenum	94-1	306703	308730	304811	306748	0.64	cps
Molybdenum	95-1	30542	29456	29807	29935	1.85	cps
Molybdenum	96-1	94962	96771	96227	95987	0.97	cps
Molybdenum	97-1	18709	19043	18378	18710	1.78	cps
Molybdenum	98-1	47591	47975	47728	47765	0.41	cps
Neodymium	150-1	439578	436690	436621	437630	0.39	cps
Neodymium	150-2	236056	235014	235879	235650	0.24	cps
Nickel	60-2	579372	574323	567771	573822	1.01	cps
Phosphorus	31-2	63384	62969	63019	63124	0.36	cps
Potassium	39-2	11305532	11388391	11406774	11366899	0.47	cps
Rhodium	103-1	21098266	20360481	22119368	21192705	4.17	cps
Rhodium	103-2	15398562	15168828	15380771	15316054	0.83	cps
Scandium	45-1	11386109	11190781	11662339	11413076	2.08	cps
Scandium	45-2	1415018	1394773	1425013	1411601	1.09	cps
Selenium	82-1	1614	1636	1635	1628	0.74	cps
Selenium	77-2	883	827	850	853	3.34	cps
Selenium	78-2	1313	1390	1423	1376	4.10	cps
Silicon	28-1	61179434	59992829	60389467	60520577	1.00	cps
Silver	107-1	41242	42071	41345	41553	1.09	cps
Silver	109-1	38859	38221	38959	38679	1.04	cps
Sodium	23-2	298097	298065	294735	296966	0.65	cps
Strontium	86-1	615831	611277	609232	612113	0.55	cps
Strontium	88-1	5575003	5453804	5354060	5460956	2.03	cps
Sulfur	34-1	196371	195065	195798	195745	0.33	cps
Terbium	159-1	27087230	26340469	29013562	27480420	5.02	cps
Terbium	159-2	20052446	19920444	20115274	20029388	0.50	cps
Thallium	203-1	16734	17258	17171	17054	1.65	cps
Thallium	205-1	39216	39116	38535	38956	0.95	cps
Tin	118-1	83034	81874	82967	82625	0.79	cps
Titanium	47-1	4298883	4266665	4174771	4246773	1.52	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-15	Instrumnet Name :	P7
Client Sample ID :	MYE4Q3	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:26:58	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	112363	112339	111159	111954	0.61	cps
Vanadium	51-2	3199088	3201799	3126356	3175748	1.35	cps
Yttrium	89-1	35020249	33957604	36947131	35308328	4.29	cps
Yttrium	89-2	11118534	10940077	11081822	11046811	0.85	cps
Zinc	66-2	914178	912796	917737	914904	0.28	cps
Zirconium	90-1	776291	783372	785113	781592	0.60	cps
Zirconium	91-1	176587	177342	177510	177147	0.28	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	39408748	38559093	39258419	39075420	1.16	cps
Antimony	121-1	44950	47006	45839	45932	2.25	cps
Arsenic	75-2	231023	230181	228434	229879	0.57	cps
Barium	135-1	4137500	4144040	4150047	4143862	0.15	cps
Barium	137-1	7028695	7003213	7076011	7035973	0.53	cps
Beryllium	9-1	2995	2861	3184	3013	5.37	cps
Bismuth	209-1	17449342	17960402	18110581	17840108	1.94	cps
Bismuth	209-2	12404930	12247092	12306801	12319608	0.65	cps
Bromine	81-1	32639	33588	34377	33535	2.59	cps
Bromine	81-2	3854	3684	3540	3693	4.25	cps
Cadmium	108-1	1630	1597	1490	1572	4.65	cps
Cadmium	106-1	12536	12075	12098	12236	2.12	cps
Cadmium	111-1	17524	17529	17489	17514	0.12	cps
Calcium	43-1	1694122	1668387	1680240	1680916	0.77	cps
Calcium	44-1	27230685	27072070	26936207	27079654	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2123081	2127698	2133465	2128081	0.24	cps
Cobalt	59-2	1623505	1626798	1631482	1627262	0.25	cps
Copper	63-2	4015378	3962636	3984154	3987389	0.67	cps
Dysprosium	156-1	264414	264956	266371	265247	0.38	cps
Dysprosium	156-2	207770	208224	206791	207595	0.35	cps
Erbium	164-1	220576	223161	223690	222476	0.75	cps
Erbium	164-2	139831	138957	140969	139919	0.72	cps
Gadolinium	160-1	253191	251919	252593	252568	0.25	cps
Gadolinium	160-2	167339	165815	166652	166602	0.46	cps
Holmium	165-1	30689465	31365994	31425753	31160404	1.31	cps
Holmium	165-2	19974573	19918357	19942395	19945108	0.14	cps
Indium	115-1	26112645	27181227	26967422	26753765	2.11	cps
Indium	115-2	9399562	9278373	9326888	9334941	0.65	cps
Iron	56-2	1715020454	1717871868	1720756934	1717883086	0.17	cps
Iron	57-2	42042808	42414906	42601162	42352959	0.67	cps
Iron	54-2	93155692	93044212	93083765	93094556	0.06	cps
Krypton	83-1	900	767	803	823	8.37	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1200593	1193161	1217182	1203645	1.02	cps
Lead	207-1	1020717	1044818	1032607	1032714	1.17	cps
Lead	208-1	4665938	4756857	4681515	4701437	1.03	cps
Lithium	6-1	1493456	1446899	1409259	1449871	2.91	cps
Magnesium	24-2	36446249	36425623	36983049	36618307	0.86	cps
Manganese	55-2	34547184	34841775	35349902	34912954	1.16	cps
Molybdenum	94-1	296850	300103	299174	298709	0.56	cps
Molybdenum	95-1	22921	22975	22898	22931	0.17	cps
Molybdenum	96-1	89324	88214	89203	88914	0.68	cps
Molybdenum	97-1	14134	13930	14527	14197	2.14	cps
Molybdenum	98-1	35653	35854	35877	35795	0.34	cps
Neodymium	150-1	477184	478488	479647	478440	0.26	cps
Neodymium	150-2	262768	260048	259685	260834	0.65	cps
Nickel	60-2	741243	735037	735652	737311	0.46	cps
Phosphorus	31-2	63009	62567	63889	63155	1.07	cps
Potassium	39-2	13556076	13376404	13394949	13442476	0.74	cps
Rhodium	103-1	24834666	25082050	25392527	25103081	1.11	cps
Rhodium	103-2	15344295	15367472	15447109	15386292	0.35	cps
Scandium	45-1	13993609	14190520	14011309	14065146	0.77	cps
Scandium	45-2	1497296	1472710	1483511	1484506	0.83	cps
Selenium	82-1	1500	1572	1535	1536	2.33	cps
Selenium	77-2	893	950	890	911	3.70	cps
Selenium	78-2	1423	1350	1453	1409	3.77	cps
Silicon	28-1	64274394	62766374	61426906	62822558	2.27	cps
Silver	107-1	17671	18202	17918	17930	1.48	cps
Silver	109-1	16593	16673	16386	16551	0.89	cps
Sodium	23-2	336759	336543	343501	338934	1.17	cps
Strontium	86-1	952345	958573	962955	957958	0.56	cps
Strontium	88-1	8461696	8541545	8481172	8494804	0.49	cps
Sulfur	34-1	222229	218837	216617	219228	1.29	cps
Terbium	159-1	32177920	33342751	33551475	33024048	2.24	cps
Terbium	159-2	20135591	20171981	20074284	20127285	0.25	cps
Thallium	203-1	15022	14935	15369	15109	1.52	cps
Thallium	205-1	35750	35416	35359	35509	0.60	cps
Tin	118-1	66174	66744	65588	66169	0.87	cps
Titanium	47-1	3737873	3733310	3729386	3733523	0.11	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-16	Instrumnet Name :	P7
Client Sample ID :	MYE4Q4	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:29:58	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	121149	121640	119820	120869	0.78	cps
Vanadium	51-2	3491322	3427660	3460729	3459904	0.92	cps
Yttrium	89-1	41404489	42474108	42660083	42179560	1.61	cps
Yttrium	89-2	11395489	11231947	11470592	11366010	1.07	cps
Zinc	66-2	742638	741462	745202	743101	0.26	cps
Zirconium	90-1	765298	779643	768837	771259	0.97	cps
Zirconium	91-1	170623	172026	176508	173052	1.78	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24688017	24576514	25014985	24759839	0.92	cps
Antimony	121-1	34999	34865	34268	34711	1.12	cps
Arsenic	75-2	170969	172368	170743	171360	0.51	cps
Barium	135-1	4145588	4063155	4014034	4074259	1.63	cps
Barium	137-1	6887357	6974913	6788175	6883482	1.36	cps
Beryllium	9-1	2850	2800	2595	2748	4.93	cps
Bismuth	209-1	17633883	18411939	18607468	18217763	2.83	cps
Bismuth	209-2	12305844	12346511	12516024	12389460	0.90	cps
Bromine	81-1	34951	36669	37174	36265	3.21	cps
Bromine	81-2	4457	4224	4261	4314	2.91	cps
Cadmium	108-1	817	733	727	759	6.61	cps
Cadmium	106-1	11208	10621	10837	10889	2.73	cps
Cadmium	111-1	13315	13102	13132	13183	0.87	cps
Calcium	43-1	590967	595220	585764	590650	0.80	cps
Calcium	44-1	9534757	9531677	9274822	9447085	1.58	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1182542	1183926	1186590	1184352	0.17	cps
Cobalt	59-2	1101458	1094619	1096630	1097569	0.32	cps
Copper	63-2	1960826	1973933	1986400	1973720	0.65	cps
Dysprosium	156-1	256992	261149	259936	259359	0.82	cps
Dysprosium	156-2	202976	204950	203485	203804	0.50	cps
Erbium	164-1	198098	197679	199574	198450	0.50	cps
Erbium	164-2	123375	125871	123803	124349	1.07	cps
Gadolinium	160-1	236482	235301	237192	236325	0.40	cps
Gadolinium	160-2	155589	155094	152978	154554	0.90	cps
Holmium	165-1	31401869	32318058	32188445	31969457	1.55	cps
Holmium	165-2	19895805	20051931	19617943	19855226	1.11	cps
Indium	115-1	26431232	27144783	27341093	26972369	1.78	cps
Indium	115-2	9315402	9265613	9450685	9343900	1.02	cps
Iron	56-2	1018858651	1018102518	1008745345	1015235505	0.55	cps
Iron	57-2	25079539	24990248	24960422	25010070	0.25	cps
Iron	54-2	56174336	55022786	55299909	55499010	1.08	cps
Krypton	83-1	817	687	793	766	9.05	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	815547	818387	827779	820571	0.78	cps
Lead	207-1	687770	696080	695931	693260	0.69	cps
Lead	208-1	3178538	3182684	3214022	3191748	0.61	cps
Lithium	6-1	1459939	1401045	1420099	1427028	2.11	cps
Magnesium	24-2	16345525	16189707	16210841	16248691	0.52	cps
Manganese	55-2	29361649	29137694	29215513	29238285	0.39	cps
Molybdenum	94-1	143768	145363	144636	144589	0.55	cps
Molybdenum	95-1	17083	16970	17397	17150	1.29	cps
Molybdenum	96-1	49363	50253	50631	50082	1.30	cps
Molybdenum	97-1	10474	10647	10427	10516	1.10	cps
Molybdenum	98-1	26528	26658	26324	26503	0.64	cps
Neodymium	150-1	482192	487007	484896	484698	0.50	cps
Neodymium	150-2	261125	263111	259322	261186	0.73	cps
Nickel	60-2	516218	518857	511885	515653	0.68	cps
Phosphorus	31-2	42626	42579	43248	42818	0.87	cps
Potassium	39-2	11119220	11062020	11044244	11075161	0.35	cps
Rhodium	103-1	25201515	25878541	25730760	25603605	1.39	cps
Rhodium	103-2	15264992	15273098	15295292	15277794	0.10	cps
Scandium	45-1	13223554	13554341	13405652	13394516	1.24	cps
Scandium	45-2	1395387	1401925	1386387	1394566	0.56	cps
Selenium	82-1	1429	1553	1408	1463	5.35	cps
Selenium	77-2	813	810	970	864	10.58	cps
Selenium	78-2	1323	1273	1323	1307	2.21	cps
Silicon	28-1	62084551	61053341	60313009	61150300	1.46	cps
Silver	107-1	7522	7319	7419	7420	1.37	cps
Silver	109-1	7302	7202	6652	7052	4.97	cps
Sodium	23-2	294509	294972	297093	295525	0.47	cps
Strontium	86-1	697409	703262	697408	699360	0.48	cps
Strontium	88-1	6151476	6187978	6189404	6176286	0.35	cps
Sulfur	34-1	194494	186389	179956	186946	3.90	cps
Terbium	159-1	32425815	33763692	33556040	33248516	2.17	cps
Terbium	159-2	20182777	20391127	20283798	20285901	0.51	cps
Thallium	203-1	15516	15436	15929	15627	1.70	cps
Thallium	205-1	36536	35847	37485	36623	2.25	cps
Tin	118-1	61045	61404	61587	61345	0.45	cps
Titanium	47-1	3654012	3680124	3627575	3653904	0.72	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-17	Instrumnet Name :	P7
Client Sample ID :	MYE4Q5	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:32:55	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	115768	117328	117638	116911	0.86	cps
Vanadium	51-2	1861639	1895324	1883500	1880154	0.91	cps
Yttrium	89-1	41425680	42187996	41731312	41781663	0.92	cps
Yttrium	89-2	11006670	11205734	11168744	11127050	0.95	cps
Zinc	66-2	422286	425330	423437	423684	0.36	cps
Zirconium	90-1	365583	368263	367064	366970	0.37	cps
Zirconium	91-1	82132	83053	82477	82554	0.56	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22517689	22070190	22406619	22331499	1.04	cps
Antimony	121-1	60041	60192	59399	59877	0.70	cps
Arsenic	75-2	199707	199792	198864	199455	0.26	cps
Barium	135-1	3327813	3292474	3255863	3292050	1.09	cps
Barium	137-1	5504156	5597367	5609602	5570375	1.04	cps
Beryllium	9-1	2700	2828	2461	2663	6.99	cps
Bismuth	209-1	17942503	18342219	18413438	18232720	1.39	cps
Bismuth	209-2	12758068	12596567	12471799	12608811	1.14	cps
Bromine	81-1	25569	25756	25439	25588	0.62	cps
Bromine	81-2	2033	2187	2010	2077	4.62	cps
Cadmium	108-1	1343	1443	1423	1403	3.77	cps
Cadmium	106-1	11952	12088	11995	12012	0.58	cps
Cadmium	111-1	20518	20337	20550	20468	0.56	cps
Calcium	43-1	709759	702672	702470	704967	0.59	cps
Calcium	44-1	11249476	11318947	11088298	11218907	1.05	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1188678	1184528	1198040	1190415	0.58	cps
Cobalt	59-2	965389	958103	957808	960433	0.45	cps
Copper	63-2	3985304	4002641	3910207	3966051	1.24	cps
Dysprosium	156-1	241003	240361	242854	241406	0.54	cps
Dysprosium	156-2	185239	185552	185667	185486	0.12	cps
Erbium	164-1	191410	193217	191603	192077	0.52	cps
Erbium	164-2	118225	120527	118484	119079	1.06	cps
Gadolinium	160-1	222242	225255	225460	224319	0.80	cps
Gadolinium	160-2	147555	145958	145957	146490	0.63	cps
Holmium	165-1	31392051	32206195	32376695	31991647	1.64	cps
Holmium	165-2	20133616	19851731	19686036	19890461	1.14	cps
Indium	115-1	26335386	27193791	26887782	26805653	1.62	cps
Indium	115-2	9438943	9356115	9417714	9404257	0.46	cps
Iron	56-2	1104158037	1096720517	1105868330	1102248961	0.44	cps
Iron	57-2	27161571	27113395	27091390	27122119	0.13	cps
Iron	54-2	60423466	59218592	59928857	59856972	1.01	cps
Krypton	83-1	710	757	763	743	3.91	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1502176	1521858	1517803	1513946	0.69	cps
Lead	207-1	1312070	1337160	1342618	1330616	1.22	cps
Lead	208-1	5979660	6015889	6085244	6026931	0.89	cps
Lithium	6-1	1448641	1413144	1376911	1412899	2.54	cps
Magnesium	24-2	17302410	17068033	17131224	17167222	0.71	cps
Manganese	55-2	22840012	22361123	22857872	22686336	1.24	cps
Molybdenum	94-1	283664	286815	285762	285414	0.56	cps
Molybdenum	95-1	20117	20564	21042	20575	2.25	cps
Molybdenum	96-1	77615	79206	76677	77833	1.64	cps
Molybdenum	97-1	12589	12709	12716	12671	0.56	cps
Molybdenum	98-1	32079	32874	32246	32399	1.29	cps
Neodymium	150-1	443497	446743	445895	445378	0.38	cps
Neodymium	150-2	243616	243449	241106	242724	0.58	cps
Nickel	60-2	508143	505561	507507	507070	0.27	cps
Phosphorus	31-2	60854	60700	60131	60562	0.63	cps
Potassium	39-2	12322882	12219104	12286144	12276043	0.43	cps
Rhodium	103-1	24807471	25735953	25679563	25407662	2.05	cps
Rhodium	103-2	15442459	15462812	15449794	15451688	0.07	cps
Scandium	45-1	13316957	13428901	13384687	13376849	0.42	cps
Scandium	45-2	1391608	1378316	1395076	1388334	0.64	cps
Selenium	82-1	1643	1582	1453	1559	6.23	cps
Selenium	77-2	793	810	977	860	11.79	cps
Selenium	78-2	1233	1217	1247	1232	1.22	cps
Silicon	28-1	70880107	69929764	71054152	70621341	0.86	cps
Silver	107-1	20605	20929	20261	20598	1.62	cps
Silver	109-1	19176	19416	19727	19440	1.42	cps
Sodium	23-2	304284	303159	303438	303627	0.19	cps
Strontium	86-1	572659	576270	573932	574287	0.32	cps
Strontium	88-1	5089233	5090072	5087354	5088886	0.03	cps
Sulfur	34-1	193256	187708	186506	189157	1.90	cps
Terbium	159-1	32559373	33724842	34573714	33619310	3.01	cps
Terbium	159-2	20174347	20123592	19995251	20097730	0.46	cps
Thallium	203-1	13654	13657	13904	13738	1.04	cps
Thallium	205-1	33017	32900	32933	32950	0.18	cps
Tin	118-1	65230	66334	65217	65594	0.98	cps
Titanium	47-1	3690382	3687817	3641133	3673111	0.75	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-18	Instrumnet Name :	P7
Client Sample ID :	MYE4Q6	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:35:58	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	95607	95896	96124	95875	0.27	cps
Vanadium	51-2	2012716	2023822	2034577	2023705	0.54	cps
Yttrium	89-1	41093267	42056536	42596201	41915335	1.82	cps
Yttrium	89-2	11194306	11099608	11013224	11102379	0.82	cps
Zinc	66-2	607711	610658	605266	607878	0.44	cps
Zirconium	90-1	732665	739142	745374	739060	0.86	cps
Zirconium	91-1	165724	166965	166465	166385	0.38	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14936781	14878046	14646077	14820301	1.04	cps
Antimony	121-1	51713	51338	51803	51618	0.48	cps
Arsenic	75-2	142917	141934	142365	142405	0.35	cps
Barium	135-1	2309445	2313150	2375541	2332712	1.59	cps
Barium	137-1	3887730	3899872	3915976	3901193	0.36	cps
Beryllium	9-1	1811	1639	1700	1717	5.09	cps
Bismuth	209-1	18150956	18514292	18468589	18377946	1.08	cps
Bismuth	209-2	12573257	12520041	12641063	12578121	0.48	cps
Bromine	81-1	22915	23055	22631	22867	0.94	cps
Bromine	81-2	1383	1473	1413	1423	3.22	cps
Cadmium	108-1	840	890	857	862	2.95	cps
Cadmium	106-1	11048	10911	10837	10932	0.98	cps
Cadmium	111-1	13757	13509	13208	13491	2.04	cps
Calcium	43-1	487783	485714	478770	484089	0.98	cps
Calcium	44-1	7647081	7831560	7597683	7692108	1.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	775020	770555	770583	772052	0.33	cps
Cobalt	59-2	760947	754055	753571	756191	0.55	cps
Copper	63-2	2012945	1989113	1999619	2000559	0.60	cps
Dysprosium	156-1	153293	153954	156660	154636	1.15	cps
Dysprosium	156-2	119167	117981	118885	118677	0.52	cps
Erbium	164-1	124959	126584	129117	126887	1.65	cps
Erbium	164-2	78747	78365	77352	78155	0.92	cps
Gadolinium	160-1	143382	145863	146658	145301	1.18	cps
Gadolinium	160-2	95603	95650	93540	94931	1.27	cps
Holmium	165-1	31984320	32128893	32434530	32182581	0.71	cps
Holmium	165-2	20027931	19815378	19860062	19901124	0.56	cps
Indium	115-1	26915260	27369965	26967044	27084090	0.92	cps
Indium	115-2	9247779	9397022	9265866	9303556	0.88	cps
Iron	56-2	895634360	880994120	893486440	890038307	0.89	cps
Iron	57-2	21961156	22049540	21940899	21983865	0.26	cps
Iron	54-2	48621953	48283493	48027381	48310942	0.62	cps
Krypton	83-1	687	610	670	656	6.15	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	828698	853971	856637	846435	1.82	cps
Lead	207-1	728990	732734	738587	733437	0.66	cps
Lead	208-1	3282233	3349330	3341522	3324362	1.10	cps
Lithium	6-1	1453933	1443555	1471502	1456330	0.97	cps
Magnesium	24-2	12565769	12465972	12312354	12448032	1.03	cps
Manganese	55-2	16692703	16650481	16814104	16719096	0.51	cps
Molybdenum	94-1	188023	187312	189026	188121	0.46	cps
Molybdenum	95-1	17417	17354	17030	17267	1.20	cps
Molybdenum	96-1	55478	57208	57720	56802	2.07	cps
Molybdenum	97-1	11088	10784	10741	10871	1.74	cps
Molybdenum	98-1	26391	27379	27105	26958	1.89	cps
Neodymium	150-1	277043	279285	283904	280077	1.25	cps
Neodymium	150-2	152882	151206	149564	151217	1.10	cps
Nickel	60-2	341630	339205	338733	339856	0.46	cps
Phosphorus	31-2	47106	46641	46627	46791	0.58	cps
Potassium	39-2	6403125	6463011	6406621	6424252	0.52	cps
Rhodium	103-1	25690265	25915420	25637122	25747603	0.57	cps
Rhodium	103-2	15453583	15275396	15357910	15362296	0.58	cps
Scandium	45-1	12918679	12994874	12896341	12936631	0.40	cps
Scandium	45-2	1345567	1321973	1330611	1332717	0.90	cps
Selenium	82-1	1421	1506	1456	1461	2.93	cps
Selenium	77-2	523	523	573	540	5.35	cps
Selenium	78-2	1130	1057	1070	1086	3.60	cps
Silicon	28-1	65766104	64410101	64057421	64744542	1.39	cps
Silver	107-1	8116	8232	7982	8110	1.54	cps
Silver	109-1	7525	7779	7715	7673	1.72	cps
Sodium	23-2	372195	369810	367566	369857	0.63	cps
Strontium	86-1	524066	523171	518201	521813	0.61	cps
Strontium	88-1	4693544	4626126	4591905	4637191	1.12	cps
Sulfur	34-1	179835	176438	171197	175823	2.48	cps
Terbium	159-1	33347821	33618660	33352269	33439583	0.46	cps
Terbium	159-2	20160358	20137206	19952984	20083516	0.57	cps
Thallium	203-1	8349	8449	8619	8473	1.61	cps
Thallium	205-1	19494	19694	20379	19856	2.34	cps
Tin	118-1	49919	50378	49883	50060	0.55	cps
Titanium	47-1	2841747	2807361	2831687	2826932	0.63	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-19	Instrumnet Name :	P7
Client Sample ID :	MYE4Q7	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:38:58	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	70988	71487	71943	71473	0.67	cps
Vanadium	51-2	1959471	1913009	1932775	1935085	1.20	cps
Yttrium	89-1	41259907	41151254	40620164	41010442	0.83	cps
Yttrium	89-2	10743034	10851230	10797385	10797216	0.50	cps
Zinc	66-2	417990	413496	414049	415178	0.59	cps
Zirconium	90-1	483061	483142	483110	483104	0.01	cps
Zirconium	91-1	108460	109669	108977	109036	0.56	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21836817	21955171	21654894	21815627	0.69	cps
Antimony	121-1	41811	41714	41463	41662	0.43	cps
Arsenic	75-2	186031	186250	184606	185629	0.48	cps
Barium	135-1	3332640	3303234	3320203	3318692	0.44	cps
Barium	137-1	5684683	5713371	5696678	5698244	0.25	cps
Beryllium	9-1	2467	2522	2472	2487	1.23	cps
Bismuth	209-1	17943378	18350169	18759478	18351008	2.22	cps
Bismuth	209-2	12765040	12477231	12658524	12633598	1.15	cps
Bromine	81-1	28828	29927	29530	29428	1.89	cps
Bromine	81-2	2950	2734	2774	2819	4.09	cps
Cadmium	108-1	1177	1213	1167	1186	2.07	cps
Cadmium	106-1	11208	11348	11058	11204	1.30	cps
Cadmium	111-1	17836	17568	17821	17742	0.85	cps
Calcium	43-1	475335	475431	469449	473405	0.72	cps
Calcium	44-1	7673584	7586430	7551323	7603779	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1119102	1129795	1124018	1124305	0.48	cps
Cobalt	59-2	959517	953001	950982	954500	0.47	cps
Copper	63-2	2765903	2756076	2746615	2756198	0.35	cps
Dysprosium	156-1	199112	201068	202513	200897	0.85	cps
Dysprosium	156-2	154229	157321	154071	155207	1.18	cps
Erbium	164-1	158896	159414	160368	159559	0.47	cps
Erbium	164-2	99306	101227	98514	99682	1.40	cps
Gadolinium	160-1	186798	186778	186238	186604	0.17	cps
Gadolinium	160-2	123973	123404	122960	123446	0.41	cps
Holmium	165-1	31190479	32182500	32209682	31860887	1.82	cps
Holmium	165-2	20160704	19988603	19789033	19979447	0.93	cps
Indium	115-1	26281966	26904970	27168624	26785187	1.70	cps
Indium	115-2	9314766	9361938	9317159	9331288	0.28	cps
Iron	56-2	1094122650	1084521397	1086857930	1088500659	0.46	cps
Iron	57-2	26797729	27129035	26861196	26929320	0.65	cps
Iron	54-2	59093184	58398906	58830826	58774305	0.60	cps
Krypton	83-1	627	710	757	698	9.44	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1378284	1412775	1398920	1396660	1.24	cps
Lead	207-1	1219184	1232020	1228272	1226492	0.54	cps
Lead	208-1	5526001	5577673	5561051	5554908	0.47	cps
Lithium	6-1	1432061	1467342	1424224	1441209	1.59	cps
Magnesium	24-2	17465137	17965161	17565142	17665147	1.50	cps
Manganese	55-2	29246856	29450655	29537236	29411583	0.51	cps
Molybdenum	94-1	222349	223997	219914	222087	0.93	cps
Molybdenum	95-1	15118	15261	15358	15246	0.79	cps
Molybdenum	96-1	61836	63581	62600	62672	1.40	cps
Molybdenum	97-1	9396	9313	9400	9370	0.52	cps
Molybdenum	98-1	23285	24130	23369	23595	1.97	cps
Neodymium	150-1	374296	380334	377393	377341	0.80	cps
Neodymium	150-2	206858	202145	202416	203806	1.30	cps
Nickel	60-2	493885	492206	487536	491209	0.67	cps
Phosphorus	31-2	53965	53476	53717	53719	0.45	cps
Potassium	39-2	11424441	11415789	11389538	11409923	0.16	cps
Rhodium	103-1	24887810	25474287	25641193	25334430	1.56	cps
Rhodium	103-2	15362367	15351506	15459373	15391082	0.39	cps
Scandium	45-1	12960792	13153036	12954541	13022790	0.87	cps
Scandium	45-2	1355694	1355635	1364793	1358707	0.39	cps
Selenium	82-1	1466	1420	1393	1426	2.60	cps
Selenium	77-2	597	613	667	626	5.85	cps
Selenium	78-2	1063	1267	1180	1170	8.72	cps
Silicon	28-1	78215537	76476792	77097674	77263334	1.14	cps
Silver	107-1	14114	13366	13553	13678	2.84	cps
Silver	109-1	12819	12819	12602	12747	0.98	cps
Sodium	23-2	226278	228041	226857	227058	0.40	cps
Strontium	86-1	551220	557975	555457	554884	0.62	cps
Strontium	88-1	4945622	4992710	4924502	4954278	0.70	cps
Sulfur	34-1	186999	184259	181770	184343	1.42	cps
Terbium	159-1	32644771	33310096	33788629	33247832	1.73	cps
Terbium	159-2	20276212	20492880	20136661	20301918	0.88	cps
Thallium	203-1	13710	14007	14071	13929	1.38	cps
Thallium	205-1	32870	32074	32506	32483	1.23	cps
Tin	118-1	58103	58572	57076	57917	1.32	cps
Titanium	47-1	2800362	2832594	2783247	2805401	0.89	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-20	Instrumnet Name :	P7
Client Sample ID :	MYE4Q8	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:42:01	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	87613	89884	88511	88669	1.29	cps
Vanadium	51-2	2087676	2071939	2098914	2086176	0.65	cps
Yttrium	89-1	40015820	41432251	41303672	40917248	1.91	cps
Yttrium	89-2	10982934	10947608	10898050	10942864	0.39	cps
Zinc	66-2	575491	574827	577318	575879	0.22	cps
Zirconium	90-1	572894	582569	582437	579300	0.96	cps
Zirconium	91-1	129784	132162	131169	131038	0.91	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	20973259	20886485	20414458	20758067	1.45	cps
Antimony	121-1	43897	43950	44853	44233	1.21	cps
Arsenic	75-2	209798	211008	208672	209826	0.56	cps
Barium	135-1	3343935	3370577	3325510	3346674	0.68	cps
Barium	137-1	5815648	5850932	5747292	5804624	0.91	cps
Beryllium	9-1	2873	2622	2589	2695	5.75	cps
Bismuth	209-1	17692718	18582785	18638041	18304514	2.90	cps
Bismuth	209-2	12388800	14109474	13943790	13480688	7.04	cps
Bromine	81-1	29660	31063	30368	30364	2.31	cps
Bromine	81-2	3120	3094	3197	3137	1.71	cps
Cadmium	108-1	1087	990	913	997	8.72	cps
Cadmium	106-1	10998	10994	10524	10839	2.51	cps
Cadmium	111-1	13349	13174	12795	13106	2.16	cps
Calcium	43-1	512788	509312	506221	509440	0.64	cps
Calcium	44-1	8194236	8117187	8066451	8125958	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1100267	1093914	1087519	1093900	0.58	cps
Cobalt	59-2	1011070	1007960	1005303	1008111	0.29	cps
Copper	63-2	2017055	1994908	1947655	1986539	1.78	cps
Dysprosium	156-1	231501	230397	233699	231866	0.72	cps
Dysprosium	156-2	178948	176765	176026	177246	0.86	cps
Erbium	164-1	176347	177923	179646	177972	0.93	cps
Erbium	164-2	111642	110140	109986	110589	0.83	cps
Gadolinium	160-1	208867	212999	211175	211014	0.98	cps
Gadolinium	160-2	139315	138456	136976	138249	0.86	cps
Holmium	165-1	31049506	32678785	32554057	32094116	2.83	cps
Holmium	165-2	19798298	22233424	21897020	21309580	6.19	cps
Indium	115-1	26040663	27556839	27077022	26891508	2.88	cps
Indium	115-2	9237480	10245184	10400020	9960895	6.34	cps
Iron	56-2	1059856251	1053834438	1048938678	1054209789	0.52	cps
Iron	57-2	26116960	26133215	25762391	26004189	0.81	cps
Iron	54-2	58332392	57232644	57166242	57577093	1.14	cps
Krypton	83-1	663	693	737	698	5.28	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	930828	953922	950474	945075	1.32	cps
Lead	207-1	801627	805774	817197	808199	1.00	cps
Lead	208-1	3641078	3734856	3719275	3698403	1.36	cps
Lithium	6-1	1481259	1477558	1491789	1483536	0.50	cps
Magnesium	24-2	15550249	15509219	15364475	15474647	0.63	cps
Manganese	55-2	25730978	25419890	25045795	25398888	1.35	cps
Molybdenum	94-1	259641	260116	260117	259958	0.11	cps
Molybdenum	95-1	15418	15131	15171	15240	1.02	cps
Molybdenum	96-1	67793	68781	68972	68515	0.92	cps
Molybdenum	97-1	9456	9176	9403	9345	1.59	cps
Molybdenum	98-1	23202	23719	23329	23417	1.15	cps
Neodymium	150-1	425819	431150	426714	427894	0.67	cps
Neodymium	150-2	232778	231349	230376	231501	0.52	cps
Nickel	60-2	488134	486714	478963	484604	1.02	cps
Phosphorus	31-2	43398	43736	42907	43347	0.96	cps
Potassium	39-2	10141322	10210143	9951122	10100862	1.33	cps
Rhodium	103-1	24880318	25443004	25092946	25138756	1.13	cps
Rhodium	103-2	15221165	17001087	17184520	16468924	6.58	cps
Scandium	45-1	12979192	13105977	13133598	13072922	0.63	cps
Scandium	45-2	1335349	1483076	1494630	1437685	6.18	cps
Selenium	82-1	1484	1448	1457	1463	1.28	cps
Selenium	77-2	697	673	733	701	4.31	cps
Selenium	78-2	1273	1300	1290	1288	1.05	cps
Silicon	28-1	66980029	66751552	66269917	66667166	0.54	cps
Silver	107-1	7582	7512	7352	7482	1.58	cps
Silver	109-1	6662	6762	6755	6726	0.83	cps
Sodium	23-2	263315	259058	258969	260447	0.95	cps
Strontium	86-1	693332	691845	693668	692948	0.14	cps
Strontium	88-1	6087597	6184875	6156257	6142910	0.81	cps
Sulfur	34-1	182142	178894	176837	179291	1.49	cps
Terbium	159-1	32332360	33481310	33914436	33242702	2.46	cps
Terbium	159-2	20217609	22421935	22305179	21648241	5.73	cps
Thallium	203-1	13847	14284	14077	14070	1.55	cps
Thallium	205-1	32412	33498	33024	32978	1.65	cps
Tin	118-1	52455	52843	52816	52705	0.41	cps
Titanium	47-1	3052028	3019456	3039589	3037024	0.54	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-21	Instrumnet Name :	P7
Client Sample ID :	MYE4Q9	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:45:00	DataFile Name :	069SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	104146	104590	103790	104175	0.38	cps
Vanadium	51-2	1944262	1965302	1956423	1955329	0.54	cps
Yttrium	89-1	40108185	41370582	40819589	40766119	1.55	cps
Yttrium	89-2	10882563	12003423	12083482	11656490	5.76	cps
Zinc	66-2	444057	441804	439686	441849	0.49	cps
Zirconium	90-1	679651	682480	678808	680313	0.28	cps
Zirconium	91-1	152193	152361	152813	152456	0.21	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21603200	21671236	21384659	21553032	0.69	cps
Antimony	121-1	38421	38879	37963	38421	1.19	cps
Arsenic	75-2	159197	158074	158334	158535	0.37	cps
Barium	135-1	3322027	3280240	3315616	3305961	0.68	cps
Barium	137-1	5589426	5676466	5627032	5630975	0.78	cps
Beryllium	9-1	1878	2017	1767	1887	6.64	cps
Bismuth	209-1	17341100	18504552	18497518	18114390	3.70	cps
Bismuth	209-2	12766726	12748266	12770014	12761669	0.09	cps
Bromine	81-1	33211	34093	35656	34320	3.61	cps
Bromine	81-2	3871	3807	4087	3922	3.74	cps
Cadmium	108-1	707	710	740	719	2.55	cps
Cadmium	106-1	9820	10374	10160	10118	2.76	cps
Cadmium	111-1	8990	9465	9121	9192	2.67	cps
Calcium	43-1	542232	544484	538363	541693	0.57	cps
Calcium	44-1	8648281	8524426	8593195	8588634	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	883329	876551	876624	878835	0.44	cps
Cobalt	59-2	836904	826876	825891	829890	0.73	cps
Copper	63-2	1580522	1555472	1568971	1568321	0.80	cps
Dysprosium	156-1	197763	200450	197175	198462	0.88	cps
Dysprosium	156-2	154786	153252	152821	153620	0.67	cps
Erbium	164-1	147240	150871	151902	150004	1.63	cps
Erbium	164-2	93749	93322	93255	93442	0.29	cps
Gadolinium	160-1	183172	189197	189261	187210	1.87	cps
Gadolinium	160-2	124138	122900	123180	123406	0.53	cps
Holmium	165-1	30203912	32159072	32227680	31530221	3.64	cps
Holmium	165-2	20095948	19930748	20175516	20067404	0.62	cps
Indium	115-1	25543728	27272061	27131851	26649213	3.60	cps
Indium	115-2	9175496	9301605	9195729	9224277	0.73	cps
Iron	56-2	882964974	862848600	872692227	872835267	1.15	cps
Iron	57-2	21659965	21708880	21601986	21656944	0.25	cps
Iron	54-2	48342293	48039004	47667973	48016423	0.70	cps
Krypton	83-1	597	600	660	619	5.76	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	469746	483275	489924	480982	2.14	cps
Lead	207-1	392255	400962	402927	398714	1.42	cps
Lead	208-1	1814563	1855163	1874177	1847968	1.65	cps
Lithium	6-1	1427494	1498575	1431185	1452418	2.76	cps
Magnesium	24-2	14838541	14720501	14643008	14734017	0.67	cps
Manganese	55-2	17444947	17409056	17314414	17389472	0.39	cps
Molybdenum	94-1	214714	218962	219044	217573	1.14	cps
Molybdenum	95-1	15739	16443	16563	16248	2.74	cps
Molybdenum	96-1	60173	61204	61020	60799	0.90	cps
Molybdenum	97-1	10501	10264	10400	10388	1.14	cps
Molybdenum	98-1	25739	26190	26123	26018	0.94	cps
Neodymium	150-1	383946	390640	388686	387758	0.89	cps
Neodymium	150-2	210597	207142	207007	208249	0.98	cps
Nickel	60-2	382524	378310	375572	378802	0.92	cps
Phosphorus	31-2	50446	49824	49938	50069	0.66	cps
Potassium	39-2	7549182	7456121	7510068	7505124	0.62	cps
Rhodium	103-1	24038879	25464707	25466830	24990139	3.30	cps
Rhodium	103-2	15144212	15311118	15038451	15164594	0.91	cps
Scandium	45-1	12571356	13275658	13194041	13013685	2.96	cps
Scandium	45-2	1343903	1338907	1334982	1339264	0.33	cps
Selenium	82-1	1428	1471	1365	1421	3.74	cps
Selenium	77-2	660	697	683	680	2.73	cps
Selenium	78-2	1213	1113	1270	1199	6.62	cps
Silicon	28-1	78336022	78041516	75655106	77344214	1.90	cps
Silver	107-1	3941	3891	3887	3906	0.77	cps
Silver	109-1	3657	3651	3627	3645	0.43	cps
Sodium	23-2	254237	251231	252122	252530	0.61	cps
Strontium	86-1	664609	668339	669605	667518	0.39	cps
Strontium	88-1	5877037	6003034	5939776	5939949	1.06	cps
Sulfur	34-1	171265	166472	160254	165997	3.33	cps
Terbium	159-1	31282294	33407943	33747323	32812520	4.07	cps
Terbium	159-2	20209216	20356390	20081475	20215693	0.68	cps
Thallium	203-1	9160	8930	8973	9021	1.36	cps
Thallium	205-1	21110	21741	21664	21505	1.60	cps
Tin	118-1	47859	49602	48006	48489	1.99	cps
Titanium	47-1	2689724	2763596	2705904	2719741	1.43	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4521-22	Instrumnet Name :	P7
Client Sample ID :	MYE4R0	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 01:48:03	DataFile Name :	070SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	92159	92438	94116	92905	1.14	cps
Vanadium	51-2	1545757	1499884	1545174	1530272	1.72	cps
Yttrium	89-1	38509234	40635818	40832694	39992582	3.22	cps
Yttrium	89-2	10807003	10815301	10770519	10797608	0.22	cps
Zinc	66-2	366679	364347	361832	364286	0.67	cps
Zirconium	90-1	565489	569670	568500	567886	0.38	cps
Zirconium	91-1	126056	129159	127850	127688	1.22	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2727427	2704153	2722933	2718171	0.45	cps
Antimony	121-1	500	560	617	559	10.44	cps
Arsenic	75-2	2840	2704	2637	2727	3.80	cps
Barium	135-1	662704	662700	657636	661013	0.44	cps
Barium	137-1	1143409	1146243	1139270	1142974	0.31	cps
Beryllium	9-1	1122	1011	872	1002	12.50	cps
Bismuth	209-1	18239907	18211374	18454521	18301934	0.73	cps
Bismuth	209-2	12742896	12624434	12574631	12647320	0.68	cps
Bromine	81-1	19573	20097	19777	19816	1.33	cps
Bromine	81-2	920	877	973	923	5.24	cps
Cadmium	108-1	123	120	87	110	18.43	cps
Cadmium	106-1	8356	8299	8299	8318	0.39	cps
Cadmium	111-1	6003	6039	6105	6049	0.86	cps
Calcium	43-1	439984	441326	437156	439489	0.48	cps
Calcium	44-1	6981610	7063644	6991633	7012295	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	111501	112365	111992	111953	0.39	cps
Cobalt	59-2	132603	132045	132489	132379	0.22	cps
Copper	63-2	1914504	1921890	1939267	1925220	0.66	cps
Dysprosium	156-1	79339	80861	81002	80401	1.15	cps
Dysprosium	156-2	55894	55272	53425	54863	2.34	cps
Erbium	164-1	59827	60604	60212	60214	0.64	cps
Erbium	164-2	37647	37129	37771	37516	0.91	cps
Gadolinium	160-1	85512	87018	87984	86838	1.43	cps
Gadolinium	160-2	58836	58304	57347	58162	1.30	cps
Holmium	165-1	31200870	31364104	31222869	31262614	0.28	cps
Holmium	165-2	19489649	19641828	19471157	19534212	0.48	cps
Indium	115-1	26738622	27184861	27107261	27010248	0.88	cps
Indium	115-2	9419039	9333506	9349577	9367374	0.49	cps
Iron	56-2	70391959	70399744	70833377	70541693	0.36	cps
Iron	57-2	1761592	1764007	1776615	1767405	0.46	cps
Iron	54-2	3845131	3823574	3916039	3861582	1.25	cps
Krypton	83-1	530	617	663	603	11.21	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	137487	136342	137631	137153	0.52	cps
Lead	207-1	113818	112027	113469	113105	0.84	cps
Lead	208-1	531356	527158	529437	529317	0.40	cps
Lithium	6-1	1666308	1568973	1522600	1585961	4.62	cps
Magnesium	24-2	4454025	4491997	4505062	4483694	0.59	cps
Manganese	55-2	2733254	2741936	2813177	2762789	1.59	cps
Molybdenum	94-1	17330	17050	16830	17070	1.47	cps
Molybdenum	95-1	510	567	653	577	12.52	cps
Molybdenum	96-1	4154	4051	4034	4080	1.59	cps
Molybdenum	97-1	313	393	450	386	17.81	cps
Molybdenum	98-1	947	917	817	893	7.62	cps
Neodymium	150-1	92139	91605	91380	91708	0.42	cps
Neodymium	150-2	50998	50350	50186	50511	0.85	cps
Nickel	60-2	69728	70156	70123	70002	0.34	cps
Phosphorus	31-2	13076	13329	12979	13128	1.38	cps
Potassium	39-2	1120528	1116238	1117431	1118066	0.20	cps
Rhodium	103-1	25423196	25706863	25619560	25583206	0.57	cps
Rhodium	103-2	15387631	15305363	15493445	15395480	0.61	cps
Scandium	45-1	12800710	12827883	12777166	12801920	0.20	cps
Scandium	45-2	1303674	1296054	1281493	1293740	0.87	cps
Selenium	82-1	1157	1201	1065	1141	6.06	cps
Selenium	77-2	223	227	250	233	6.23	cps
Selenium	78-2	840	720	840	800	8.66	cps
Silicon	28-1	27617223	26576970	26965849	27053347	1.94	cps
Silver	107-1	3480	3600	3417	3499	2.66	cps
Silver	109-1	3150	3360	3044	3185	5.06	cps
Sodium	23-2	466202	464037	466379	465539	0.28	cps
Strontium	86-1	216650	215231	214871	215584	0.44	cps
Strontium	88-1	1931293	1953599	1905501	1930131	1.25	cps
Sulfur	34-1	176098	173462	172397	173986	1.09	cps
Terbium	159-1	32190652	32979829	32426245	32532242	1.25	cps
Terbium	159-2	20178421	19935015	19846162	19986533	0.86	cps
Thallium	203-1	2167	2030	2050	2082	3.55	cps
Thallium	205-1	4851	4828	4674	4784	2.01	cps
Tin	118-1	14067	14057	13747	13957	1.30	cps
Titanium	47-1	113179	114381	113572	113711	0.54	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-01DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:55:26	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49706	49063	48735	49168	1.00	cps
Vanadium	51-2	134684	135879	135307	135290	0.44	cps
Yttrium	89-1	39131470	39659473	39486116	39425686	0.68	cps
Yttrium	89-2	10589127	10472013	10489326	10516822	0.60	cps
Zinc	66-2	65058	63980	64729	64589	0.86	cps
Zirconium	90-1	45691	45774	45226	45564	0.65	cps
Zirconium	91-1	10180	10097	10150	10142	0.42	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3025593	3026723	2959641	3003986	1.28	cps
Antimony	121-1	560	553	667	593	10.72	cps
Arsenic	75-2	3761	3674	3647	3694	1.60	cps
Barium	135-1	684141	691359	679959	685153	0.84	cps
Barium	137-1	1183735	1186195	1173606	1181179	0.56	cps
Beryllium	9-1	1000	1072	978	1017	4.86	cps
Bismuth	209-1	17528636	18674878	18669363	18290959	3.61	cps
Bismuth	209-2	12685309	12763271	12883148	12777243	0.78	cps
Bromine	81-1	19713	20171	20361	20082	1.66	cps
Bromine	81-2	677	773	703	718	6.96	cps
Cadmium	108-1	173	167	157	166	5.07	cps
Cadmium	106-1	8749	9116	8986	8951	2.08	cps
Cadmium	111-1	6217	6541	6487	6415	2.71	cps
Calcium	43-1	626540	620002	613237	619926	1.07	cps
Calcium	44-1	9900080	9892340	9774740	9855720	0.71	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	119210	117060	118861	118377	0.97	cps
Cobalt	59-2	152007	151169	151475	151551	0.28	cps
Copper	63-2	3976871	3999104	3974850	3983608	0.34	cps
Dysprosium	156-1	91029	90815	90580	90808	0.25	cps
Dysprosium	156-2	61139	59643	61343	60708	1.53	cps
Erbium	164-1	68239	68798	68621	68552	0.42	cps
Erbium	164-2	42254	42598	41722	42191	1.05	cps
Gadolinium	160-1	97980	98610	98906	98498	0.48	cps
Gadolinium	160-2	65305	64829	65234	65123	0.39	cps
Holmium	165-1	30306662	32341334	32235990	31627995	3.62	cps
Holmium	165-2	19552938	19675361	20016016	19748105	1.22	cps
Indium	115-1	25905067	27547564	27301490	26918040	3.29	cps
Indium	115-2	9466511	9388933	9396367	9417270	0.45	cps
Iron	56-2	84422252	83671032	84348409	84147231	0.49	cps
Iron	57-2	2092410	2109483	2081023	2094305	0.68	cps
Iron	54-2	4636968	4615426	4574108	4608834	0.69	cps
Krypton	83-1	657	617	633	636	3.16	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	148208	151666	150293	150056	1.16	cps
Lead	207-1	124235	124407	123875	124172	0.22	cps
Lead	208-1	575350	581131	573867	576783	0.67	cps
Lithium	6-1	1489596	1468348	1460069	1472671	1.03	cps
Magnesium	24-2	5037501	5021079	4939540	4999373	1.05	cps
Manganese	55-2	3510632	3455952	3564941	3510509	1.55	cps
Molybdenum	94-1	25432	24918	23976	24775	2.98	cps
Molybdenum	95-1	733	700	740	724	2.96	cps
Molybdenum	96-1	5745	5628	5705	5692	1.04	cps
Molybdenum	97-1	423	380	490	431	12.85	cps
Molybdenum	98-1	960	1067	1087	1038	6.56	cps
Neodymium	150-1	99756	100666	102536	100986	1.40	cps
Neodymium	150-2	55907	55151	55465	55508	0.68	cps
Nickel	60-2	79848	79107	79124	79360	0.53	cps
Phosphorus	31-2	13736	14417	14100	14084	2.42	cps
Potassium	39-2	1239396	1204788	1201627	1215271	1.72	cps
Rhodium	103-1	24355547	25813976	25735462	25301662	3.24	cps
Rhodium	103-2	15572468	15574310	15602137	15582972	0.11	cps
Scandium	45-1	12088812	12843522	12815859	12582731	3.40	cps
Scandium	45-2	1317575	1324521	1293203	1311767	1.25	cps
Selenium	82-1	1125	1114	1120	1120	0.47	cps
Selenium	77-2	343	287	273	301	12.34	cps
Selenium	78-2	817	897	823	846	5.25	cps
Silicon	28-1	22902162	22812703	22245081	22653315	1.57	cps
Silver	107-1	6385	6552	6528	6488	1.39	cps
Silver	109-1	6098	5725	5951	5925	3.18	cps
Sodium	23-2	437749	443892	438060	439900	0.79	cps
Strontium	86-1	236194	233056	232964	234071	0.79	cps
Strontium	88-1	2089135	2074799	2091658	2085197	0.44	cps
Sulfur	34-1	184877	193023	196877	191592	3.20	cps
Terbium	159-1	31601391	33210821	33087400	32633204	2.74	cps
Terbium	159-2	20321014	20169370	20245023	20245136	0.37	cps
Thallium	203-1	2294	2317	2264	2291	1.17	cps
Thallium	205-1	5841	5448	5451	5580	4.05	cps
Tin	118-1	8473	8589	8056	8373	3.35	cps
Titanium	47-1	132934	132682	132572	132729	0.14	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-02DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M8	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 01:58:31	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73156	73618	72918	73231	0.49	cps
Vanadium	51-2	161380	162626	159836	161281	0.87	cps
Yttrium	89-1	37517894	40095663	40462163	39358573	4.08	cps
Yttrium	89-2	10572238	10604891	10700617	10625915	0.63	cps
Zinc	66-2	74977	73644	74381	74334	0.90	cps
Zirconium	90-1	67963	66895	67129	67329	0.83	cps
Zirconium	91-1	15255	14911	14901	15022	1.34	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2201690	2251818	2245690	2233066	1.22	cps
Antimony	121-1	347	467	523	446	20.25	cps
Arsenic	75-2	2587	2734	2560	2627	3.55	cps
Barium	135-1	620463	620252	619114	619943	0.12	cps
Barium	137-1	1068814	1080692	1073062	1074190	0.56	cps
Beryllium	9-1	944	961	889	932	4.06	cps
Bismuth	209-1	18370211	18850656	18322427	18514431	1.58	cps
Bismuth	209-2	12949164	12866499	12737631	12851098	0.83	cps
Bromine	81-1	19346	19550	20231	19709	2.35	cps
Bromine	81-2	663	780	693	712	8.51	cps
Cadmium	108-1	107	120	110	112	6.18	cps
Cadmium	106-1	8990	8653	9040	8894	2.37	cps
Cadmium	111-1	6401	6213	6431	6348	1.86	cps
Calcium	43-1	385333	384865	382060	384086	0.46	cps
Calcium	44-1	6143371	6092337	6112870	6116193	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	94386	94580	94299	94422	0.15	cps
Cobalt	59-2	109448	110295	108247	109330	0.94	cps
Copper	63-2	2795158	2781567	2805525	2794084	0.43	cps
Dysprosium	156-1	83010	85599	82678	83762	1.91	cps
Dysprosium	156-2	57755	57457	57075	57429	0.59	cps
Erbium	164-1	61374	62110	61980	61821	0.64	cps
Erbium	164-2	38727	38727	38419	38624	0.46	cps
Gadolinium	160-1	90225	92493	91466	91395	1.24	cps
Gadolinium	160-2	60761	60701	59747	60403	0.94	cps
Holmium	165-1	31389171	32209245	31527971	31708796	1.38	cps
Holmium	165-2	19908253	19775861	19808973	19831029	0.35	cps
Indium	115-1	26842549	27494499	26833524	27056857	1.40	cps
Indium	115-2	9361133	9366312	9271884	9333110	0.57	cps
Iron	56-2	56485236	55888303	55836566	56070035	0.64	cps
Iron	57-2	1404944	1423307	1394845	1407699	1.03	cps
Iron	54-2	3080617	3096637	3051956	3076403	0.74	cps
Krypton	83-1	523	610	467	533	13.54	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	131539	132670	131014	131741	0.64	cps
Lead	207-1	110599	109413	109608	109873	0.58	cps
Lead	208-1	510544	513583	510358	511495	0.35	cps
Lithium	6-1	1506594	1531734	1443022	1493783	3.06	cps
Magnesium	24-2	3628870	3640894	3651955	3640573	0.32	cps
Manganese	55-2	2263883	2219866	2229555	2237768	1.03	cps
Molybdenum	94-1	18949	19086	19496	19177	1.49	cps
Molybdenum	95-1	553	587	587	576	3.34	cps
Molybdenum	96-1	4327	4121	4034	4161	3.62	cps
Molybdenum	97-1	413	377	417	402	5.52	cps
Molybdenum	98-1	673	867	880	807	14.34	cps
Neodymium	150-1	95870	97058	98011	96980	1.11	cps
Neodymium	150-2	52906	53377	52042	52775	1.28	cps
Nickel	60-2	55128	56613	55281	55674	1.47	cps
Phosphorus	31-2	14023	13683	13413	13706	2.23	cps
Potassium	39-2	1022268	1021472	1017705	1020482	0.24	cps
Rhodium	103-1	25431845	26320482	25774658	25842329	1.73	cps
Rhodium	103-2	15631946	15712565	15445319	15596610	0.88	cps
Scandium	45-1	12647410	12680273	12539559	12622414	0.58	cps
Scandium	45-2	1286857	1276145	1296136	1286379	0.78	cps
Selenium	82-1	1194	1106	1275	1192	7.10	cps
Selenium	77-2	267	293	317	292	8.56	cps
Selenium	78-2	763	903	820	829	8.50	cps
Silicon	28-1	21697590	21909728	21540326	21715881	0.85	cps
Silver	107-1	5244	5264	5308	5272	0.61	cps
Silver	109-1	4844	5061	5064	4990	2.53	cps
Sodium	23-2	431032	431973	432434	431813	0.17	cps
Strontium	86-1	213553	216501	215355	215136	0.69	cps
Strontium	88-1	1924194	1931780	1925648	1927207	0.21	cps
Sulfur	34-1	197265	193718	191760	194248	1.44	cps
Terbium	159-1	32501899	33053075	33031351	32862108	0.95	cps
Terbium	159-2	20018328	19805210	19628255	19817264	0.99	cps
Thallium	203-1	1830	1813	1703	1782	3.86	cps
Thallium	205-1	4227	4257	4094	4193	2.07	cps
Tin	118-1	6678	6588	6568	6612	0.89	cps
Titanium	47-1	98552	99511	98743	98935	0.51	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-03DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6M9	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:01:39	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	49110	49331	49609	49350	0.51	cps
Vanadium	51-2	117536	116455	116599	116864	0.50	cps
Yttrium	89-1	39149989	39482729	39598292	39410336	0.59	cps
Yttrium	89-2	10652640	10539455	10355959	10516018	1.42	cps
Zinc	66-2	54489	53770	53753	54004	0.78	cps
Zirconium	90-1	51339	52567	50908	51605	1.67	cps
Zirconium	91-1	11445	11541	11508	11498	0.43	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4216310	4154920	4201848	4191026	0.77	cps
Antimony	121-1	573	547	607	576	5.22	cps
Arsenic	75-2	21833	22033	22280	22049	1.02	cps
Barium	135-1	933378	943367	936158	937634	0.55	cps
Barium	137-1	1599201	1647609	1631859	1626223	1.52	cps
Beryllium	9-1	1417	1167	1361	1315	9.98	cps
Bismuth	209-1	18468173	18722454	18942895	18711174	1.27	cps
Bismuth	209-2	12838527	12644518	12743624	12742223	0.76	cps
Bromine	81-1	19800	20618	20144	20187	2.03	cps
Bromine	81-2	933	1003	910	949	5.12	cps
Cadmium	108-1	210	223	227	220	4.01	cps
Cadmium	106-1	9430	9020	9200	9216	2.23	cps
Cadmium	111-1	7444	7291	7394	7376	1.06	cps
Calcium	43-1	898036	888113	887454	891201	0.67	cps
Calcium	44-1	14209835	14254289	14366285	14276803	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	192218	188951	190355	190508	0.86	cps
Cobalt	59-2	218840	217017	217626	217828	0.43	cps
Copper	63-2	40692674	40820527	39806344	40439848	1.37	cps
Dysprosium	156-1	118768	118995	119416	119060	0.28	cps
Dysprosium	156-2	81166	79286	79470	79974	1.30	cps
Erbium	164-1	88672	91601	90950	90408	1.70	cps
Erbium	164-2	55821	55282	54877	55327	0.86	cps
Gadolinium	160-1	127501	128745	129667	128638	0.85	cps
Gadolinium	160-2	84982	84131	83919	84344	0.67	cps
Holmium	165-1	31529555	31969640	32099592	31866263	0.94	cps
Holmium	165-2	19750107	19610909	19706700	19689239	0.36	cps
Indium	115-1	26706046	26917952	26903846	26842615	0.44	cps
Indium	115-2	9430373	9216787	9222127	9289762	1.31	cps
Iron	56-2	115824658	115339582	114001658	115055299	0.82	cps
Iron	57-2	2885567	2866814	2864974	2872452	0.40	cps
Iron	54-2	6300768	6246047	6178060	6241625	0.98	cps
Krypton	83-1	537	617	623	592	8.14	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	204064	206348	208252	206221	1.02	cps
Lead	207-1	171541	171504	172743	171929	0.41	cps
Lead	208-1	791167	800049	805076	798764	0.88	cps
Lithium	6-1	1519061	1520923	1454707	1498230	2.52	cps
Magnesium	24-2	6953574	6920144	6851722	6908480	0.75	cps
Manganese	55-2	5532965	5461725	5424735	5473142	1.01	cps
Molybdenum	94-1	28097	28411	28064	28191	0.68	cps
Molybdenum	95-1	920	897	870	896	2.79	cps
Molybdenum	96-1	6488	6852	6648	6663	2.73	cps
Molybdenum	97-1	443	560	550	518	12.49	cps
Molybdenum	98-1	1183	1163	1207	1185	1.83	cps
Neodymium	150-1	131113	134662	135286	133687	1.68	cps
Neodymium	150-2	73312	71426	72378	72372	1.30	cps
Nickel	60-2	113271	112522	109983	111925	1.54	cps
Phosphorus	31-2	18848	18074	18274	18399	2.18	cps
Potassium	39-2	1515054	1530768	1513287	1519703	0.63	cps
Rhodium	103-1	25857259	25596084	25746059	25733134	0.51	cps
Rhodium	103-2	15734215	15379789	15334856	15482953	1.41	cps
Scandium	45-1	12858489	12851987	12647341	12785939	0.94	cps
Scandium	45-2	1305686	1280555	1286657	1290966	1.02	cps
Selenium	82-1	1250	1244	1241	1245	0.36	cps
Selenium	77-2	367	423	407	399	7.30	cps
Selenium	78-2	1017	913	1013	981	5.99	cps
Silicon	28-1	28329633	28167836	27627181	28041550	1.31	cps
Silver	107-1	33365	32563	32670	32866	1.32	cps
Silver	109-1	30181	30449	31300	30643	1.91	cps
Sodium	23-2	593798	597545	595236	595526	0.32	cps
Strontium	86-1	328194	329521	331036	329584	0.43	cps
Strontium	88-1	2937017	2954681	2970550	2954083	0.57	cps
Sulfur	34-1	215673	220139	220931	218914	1.29	cps
Terbium	159-1	33236249	33188441	33527405	33317365	0.55	cps
Terbium	159-2	20041499	20130389	19988097	20053328	0.36	cps
Thallium	203-1	2687	2894	2914	2831	4.43	cps
Thallium	205-1	6445	6742	6445	6544	2.62	cps
Tin	118-1	9210	8839	9006	9018	2.06	cps
Titanium	47-1	150136	151507	148461	150034	1.02	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-04DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N0	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:04:44	DataFile Name :	075SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	89491	90649	92065	90735	1.42	cps
Vanadium	51-2	219567	218259	216869	218231	0.62	cps
Yttrium	89-1	39477216	40002402	39753472	39744363	0.66	cps
Yttrium	89-2	10547329	10462640	10498570	10502846	0.40	cps
Zinc	66-2	103780	103260	101546	102862	1.14	cps
Zirconium	90-1	75570	75553	76009	75710	0.34	cps
Zirconium	91-1	16810	17184	16589	16861	1.78	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2781231	2796947	2753029	2777069	0.80	cps
Antimony	121-1	373	460	493	442	14.01	cps
Arsenic	75-2	3174	2834	3007	3005	5.66	cps
Barium	135-1	754833	760110	760545	758496	0.42	cps
Barium	137-1	1303254	1316119	1306556	1308643	0.51	cps
Beryllium	9-1	972	1050	1095	1039	5.96	cps
Bismuth	209-1	18918919	18883872	18530193	18777661	1.15	cps
Bismuth	209-2	12990684	12966396	12765769	12907616	0.96	cps
Bromine	81-1	20241	20578	21232	20684	2.44	cps
Bromine	81-2	940	907	983	943	4.08	cps
Cadmium	108-1	123	130	83	112	22.49	cps
Cadmium	106-1	9256	8963	8743	8987	2.87	cps
Cadmium	111-1	6763	6506	6408	6559	2.79	cps
Calcium	43-1	482556	486280	477939	482258	0.87	cps
Calcium	44-1	7714297	7716513	7604410	7678406	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	125957	124959	124946	125287	0.46	cps
Cobalt	59-2	134268	132314	132189	132923	0.88	cps
Copper	63-2	1839518	1846034	1812927	1832827	0.96	cps
Dysprosium	156-1	93680	95203	95354	94746	0.98	cps
Dysprosium	156-2	63848	62636	63533	63339	0.99	cps
Erbium	164-1	70674	70694	72172	71180	1.21	cps
Erbium	164-2	44471	43431	43778	43893	1.21	cps
Gadolinium	160-1	102877	102971	103603	103150	0.38	cps
Gadolinium	160-2	68835	69374	68413	68874	0.70	cps
Holmium	165-1	31512474	32265728	32298898	32025700	1.39	cps
Holmium	165-2	19815778	19903716	19811852	19843782	0.26	cps
Indium	115-1	26898925	27300466	27393852	27197748	0.97	cps
Indium	115-2	9291470	9220281	9222800	9244850	0.44	cps
Iron	56-2	70717922	69952531	69031657	69900703	1.21	cps
Iron	57-2	1736154	1760637	1727565	1741452	0.99	cps
Iron	54-2	3815070	3797880	3828351	3813767	0.40	cps
Krypton	83-1	507	643	650	600	13.48	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	152448	156803	156256	155169	1.53	cps
Lead	207-1	127545	126630	129322	127832	1.07	cps
Lead	208-1	591288	598849	597868	596002	0.69	cps
Lithium	6-1	1544699	1504873	1492027	1513867	1.81	cps
Magnesium	24-2	4415181	4407425	4346004	4389536	0.86	cps
Manganese	55-2	2774639	2745480	2725066	2748395	0.91	cps
Molybdenum	94-1	16780	16556	16583	16640	0.73	cps
Molybdenum	95-1	600	627	563	597	5.33	cps
Molybdenum	96-1	4231	4321	4117	4223	2.41	cps
Molybdenum	97-1	380	413	440	411	7.31	cps
Molybdenum	98-1	830	890	987	902	8.76	cps
Neodymium	150-1	103376	102888	105152	103805	1.15	cps
Neodymium	150-2	56944	56000	55455	56133	1.34	cps
Nickel	60-2	71121	69728	70294	70381	1.00	cps
Phosphorus	31-2	14791	14520	14580	14630	0.97	cps
Potassium	39-2	1206921	1226285	1198796	1210667	1.17	cps
Rhodium	103-1	25675370	25765744	25405440	25615518	0.73	cps
Rhodium	103-2	15567959	15308363	15295187	15390503	1.00	cps
Scandium	45-1	12703172	12585945	12563326	12617481	0.59	cps
Scandium	45-2	1267404	1269274	1232331	1256336	1.66	cps
Selenium	82-1	1238	1004	1133	1125	10.43	cps
Selenium	77-2	333	353	340	342	2.98	cps
Selenium	78-2	833	807	853	831	2.82	cps
Silicon	28-1	29499823	28482538	28056541	28679634	2.59	cps
Silver	107-1	2880	2637	2577	2698	5.96	cps
Silver	109-1	2390	2397	2270	2352	3.03	cps
Sodium	23-2	471164	465558	465128	467283	0.72	cps
Strontium	86-1	265030	267224	261349	264534	1.12	cps
Strontium	88-1	2369402	2319160	2360679	2349747	1.14	cps
Sulfur	34-1	214889	209516	208323	210909	1.66	cps
Terbium	159-1	32900590	33506900	33235894	33214461	0.91	cps
Terbium	159-2	20345161	19871906	19743189	19986752	1.59	cps
Thallium	203-1	2004	1877	1927	1936	3.30	cps
Thallium	205-1	4461	4407	4577	4482	1.94	cps
Tin	118-1	7859	7609	7649	7705	1.74	cps
Titanium	47-1	110859	110687	109697	110415	0.57	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-05DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N1	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:07:51	DataFile Name :	076SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	58096	60212	60105	59471	2.00	cps
Vanadium	51-2	154886	153198	154657	154247	0.59	cps
Yttrium	89-1	39431829	39143693	39482793	39352772	0.46	cps
Yttrium	89-2	10517985	10363817	10253909	10378570	1.28	cps
Zinc	66-2	66039	64954	64606	65199	1.15	cps
Zirconium	90-1	44096	44852	44307	44418	0.88	cps
Zirconium	91-1	9883	10027	10064	9991	0.95	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2556180	2590852	2566108	2571047	0.69	cps
Antimony	121-1	367	383	380	377	2.34	cps
Arsenic	75-2	2977	2937	3040	2985	1.75	cps
Barium	135-1	770006	773424	772544	771991	0.23	cps
Barium	137-1	1328195	1341936	1346877	1339003	0.72	cps
Beryllium	9-1	1072	1028	1006	1035	3.28	cps
Bismuth	209-1	18699207	18401783	18688281	18596424	0.91	cps
Bismuth	209-2	12694945	12756236	12811055	12754079	0.46	cps
Bromine	81-1	19880	21119	21499	20833	4.06	cps
Bromine	81-2	900	1053	967	973	7.90	cps
Cadmium	108-1	70	67	93	77	18.95	cps
Cadmium	106-1	9266	9070	8716	9017	3.09	cps
Cadmium	111-1	6697	6535	6289	6507	3.16	cps
Calcium	43-1	485051	485047	487570	485889	0.30	cps
Calcium	44-1	7777393	7899276	7822739	7833136	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	104371	103626	103522	103840	0.45	cps
Cobalt	59-2	128172	125694	126451	126772	1.00	cps
Copper	63-2	1957618	1976625	1924388	1952877	1.35	cps
Dysprosium	156-1	95106	93821	94324	94417	0.69	cps
Dysprosium	156-2	63265	62773	62431	62823	0.67	cps
Erbium	164-1	70722	71126	72121	71323	1.01	cps
Erbium	164-2	44206	44758	43594	44186	1.32	cps
Gadolinium	160-1	101420	105009	103371	103267	1.74	cps
Gadolinium	160-2	68094	68627	66888	67870	1.31	cps
Holmium	165-1	32061489	31597534	32247123	31968715	1.05	cps
Holmium	165-2	19619068	19868564	19905279	19797637	0.79	cps
Indium	115-1	27145205	26951971	26839911	26979029	0.57	cps
Indium	115-2	9189554	9346436	9163400	9233130	1.07	cps
Iron	56-2	64897042	63749462	64268459	64304988	0.89	cps
Iron	57-2	1604624	1593324	1601330	1599759	0.36	cps
Iron	54-2	3528838	3481738	3547063	3519213	0.96	cps
Krypton	83-1	633	593	597	608	3.65	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	161422	163928	163102	162818	0.78	cps
Lead	207-1	136666	136202	135825	136231	0.31	cps
Lead	208-1	627200	632824	634608	631544	0.61	cps
Lithium	6-1	1511583	1468114	1437905	1472534	2.52	cps
Magnesium	24-2	4238790	4255511	4250293	4248198	0.20	cps
Manganese	55-2	2862239	2784498	2785597	2810778	1.59	cps
Molybdenum	94-1	18305	15942	16166	16804	7.76	cps
Molybdenum	95-1	547	577	597	573	4.39	cps
Molybdenum	96-1	3764	3911	3957	3877	2.60	cps
Molybdenum	97-1	347	363	357	356	2.36	cps
Molybdenum	98-1	677	837	820	778	11.31	cps
Neodymium	150-1	102177	102056	101945	102059	0.11	cps
Neodymium	150-2	55927	55208	55238	55457	0.73	cps
Nickel	60-2	64823	64575	63373	64257	1.21	cps
Phosphorus	31-2	15571	14784	15475	15277	2.81	cps
Potassium	39-2	1162089	1154007	1159075	1158390	0.35	cps
Rhodium	103-1	25766903	25840329	26130435	25912555	0.74	cps
Rhodium	103-2	15297415	15353840	15236464	15295906	0.38	cps
Scandium	45-1	12867529	12398354	12748844	12671576	1.93	cps
Scandium	45-2	1277760	1246974	1275158	1266630	1.35	cps
Selenium	82-1	1075	1149	1045	1090	4.88	cps
Selenium	77-2	353	373	293	340	12.24	cps
Selenium	78-2	833	850	857	847	1.42	cps
Silicon	28-1	28149451	27937365	27231838	27772885	1.73	cps
Silver	107-1	4931	5014	4727	4891	3.02	cps
Silver	109-1	4687	4661	4464	4604	2.65	cps
Sodium	23-2	467886	467744	468702	468111	0.11	cps
Strontium	86-1	260302	260588	264984	261958	1.00	cps
Strontium	88-1	2405518	2335818	2320167	2353834	1.93	cps
Sulfur	34-1	205117	203121	203212	203817	0.55	cps
Terbium	159-1	32795139	33396827	33354071	33182012	1.01	cps
Terbium	159-2	20022385	20053779	20078603	20051589	0.14	cps
Thallium	203-1	1823	1950	1920	1898	3.49	cps
Thallium	205-1	4628	4391	4451	4490	2.74	cps
Tin	118-1	7142	7159	6988	7096	1.32	cps
Titanium	47-1	84501	83314	84326	84047	0.76	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-06DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH8M6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:10:56	DataFile Name :	077SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	68719	69507	70090	69439	0.99	cps
Vanadium	51-2	131339	131251	132179	131590	0.39	cps
Yttrium	89-1	40149546	39337734	39327371	39604884	1.19	cps
Yttrium	89-2	10348966	10339119	10276324	10321470	0.38	cps
Zinc	66-2	61747	60528	60692	60989	1.08	cps
Zirconium	90-1	42016	42254	42180	42150	0.29	cps
Zirconium	91-1	9680	9373	9540	9531	1.61	cps

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Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2871260	2826974	2842880	2847038	0.79	cps
Antimony	121-1	473	463	447	461	2.92	cps
Arsenic	75-2	3327	3207	3300	3278	1.92	cps
Barium	135-1	810302	813805	808766	810958	0.32	cps
Barium	137-1	1389795	1402807	1405519	1399374	0.60	cps
Beryllium	9-1	1195	1150	1133	1159	2.73	cps
Bismuth	209-1	18719291	18329607	18759957	18602952	1.28	cps
Bismuth	209-2	12801274	12588742	12837383	12742466	1.05	cps
Bromine	81-1	20381	21215	21008	20868	2.08	cps
Bromine	81-2	1020	1100	1163	1094	6.56	cps
Cadmium	108-1	140	120	117	126	10.05	cps
Cadmium	106-1	9190	8686	8849	8908	2.88	cps
Cadmium	111-1	6558	6206	6343	6369	2.79	cps
Calcium	43-1	531463	532300	527875	530546	0.44	cps
Calcium	44-1	8610296	8436921	8402192	8483137	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	120409	119892	118350	119550	0.90	cps
Cobalt	59-2	140978	142809	140386	141391	0.89	cps
Copper	63-2	2653449	2631041	2614872	2633121	0.74	cps
Dysprosium	156-1	103948	103636	103659	103748	0.17	cps
Dysprosium	156-2	69772	68864	69631	69423	0.70	cps
Erbium	164-1	76334	77114	77667	77038	0.87	cps
Erbium	164-2	47447	47166	48290	47634	1.23	cps
Gadolinium	160-1	112692	113845	113586	113374	0.53	cps
Gadolinium	160-2	74912	75566	73873	74784	1.14	cps
Holmium	165-1	31338334	31750836	31459515	31516228	0.67	cps
Holmium	165-2	19664132	19622271	19614130	19633511	0.14	cps
Indium	115-1	27093674	26900475	27011276	27001808	0.36	cps
Indium	115-2	9128145	9144230	9178890	9150422	0.28	cps
Iron	56-2	72831962	72992352	71883419	72569244	0.83	cps
Iron	57-2	1815981	1807496	1812531	1812003	0.24	cps
Iron	54-2	4001856	3955669	3930278	3962601	0.92	cps
Krypton	83-1	537	490	513	513	4.55	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	169835	172911	172081	171609	0.93	cps
Lead	207-1	140794	143940	141450	142061	1.17	cps
Lead	208-1	657220	665551	661115	661295	0.63	cps
Lithium	6-1	1537015	1434054	1428371	1466480	4.17	cps
Magnesium	24-2	4755471	4771789	4681570	4736276	1.02	cps
Manganese	55-2	3231303	3163979	3201371	3198884	1.05	cps
Molybdenum	94-1	20618	20044	19373	20012	3.11	cps
Molybdenum	95-1	617	657	700	658	6.34	cps
Molybdenum	96-1	4794	4641	4908	4781	2.80	cps
Molybdenum	97-1	360	383	387	377	3.86	cps
Molybdenum	98-1	753	857	987	866	13.51	cps
Neodymium	150-1	114729	112591	113351	113557	0.95	cps
Neodymium	150-2	61148	61018	60867	61011	0.23	cps
Nickel	60-2	74735	74142	74065	74314	0.49	cps
Phosphorus	31-2	16579	16139	16432	16383	1.37	cps
Potassium	39-2	1209116	1202880	1188693	1200230	0.87	cps
Rhodium	103-1	25519588	25864347	25276204	25553380	1.16	cps
Rhodium	103-2	15254623	15090998	15120299	15155306	0.58	cps
Scandium	45-1	12605887	12523667	12367579	12499044	0.97	cps
Scandium	45-2	1242713	1230616	1241265	1238198	0.53	cps
Selenium	82-1	1234	1320	1093	1216	9.43	cps
Selenium	77-2	357	313	317	329	7.33	cps
Selenium	78-2	903	863	870	879	2.44	cps
Silicon	28-1	28470369	26898977	27093480	27487608	3.12	cps
Silver	107-1	3961	3957	3974	3964	0.22	cps
Silver	109-1	3570	3540	3797	3636	3.86	cps
Sodium	23-2	526258	522125	522343	523576	0.44	cps
Strontium	86-1	275619	274738	274306	274888	0.24	cps
Strontium	88-1	2479194	2423652	2425078	2442641	1.30	cps
Sulfur	34-1	203776	203644	203925	203782	0.07	cps
Terbium	159-1	32951249	33092247	33048776	33030757	0.22	cps
Terbium	159-2	19565108	19860057	19518522	19647896	0.94	cps
Thallium	203-1	2130	2114	1883	2042	6.75	cps
Thallium	205-1	4681	4801	4778	4753	1.34	cps
Tin	118-1	7249	7322	7495	7355	1.72	cps
Titanium	47-1	98142	98806	98569	98506	0.34	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-07DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N2	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:14:03	DataFile Name :	078SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	73535	74115	74597	74082	0.72	cps
Vanadium	51-2	145190	146630	144803	145541	0.66	cps
Yttrium	89-1	39386558	38568819	38968334	38974570	1.05	cps
Yttrium	89-2	10160775	10206715	10274010	10213833	0.56	cps
Zinc	66-2	70649	71661	70599	70970	0.84	cps
Zirconium	90-1	54086	54357	53423	53955	0.89	cps
Zirconium	91-1	12335	11952	11995	12094	1.74	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2054888	2099283	2040004	2064725	1.49	cps
Antimony	121-1	383	407	360	383	6.09	cps
Arsenic	75-2	2664	2824	2767	2751	2.95	cps
Barium	135-1	667223	670583	672492	670099	0.40	cps
Barium	137-1	1168702	1173109	1163339	1168383	0.42	cps
Beryllium	9-1	856	872	828	852	2.64	cps
Bismuth	209-1	17057806	18439452	18461409	17986223	4.47	cps
Bismuth	209-2	12987312	12672323	12815592	12825076	1.23	cps
Bromine	81-1	20164	20164	20765	20364	1.70	cps
Bromine	81-2	960	860	853	891	6.71	cps
Cadmium	108-1	103	100	97	100	3.33	cps
Cadmium	106-1	8606	8903	8799	8769	1.72	cps
Cadmium	111-1	6162	6429	6329	6306	2.14	cps
Calcium	43-1	476494	482322	476410	478409	0.71	cps
Calcium	44-1	7806246	7599331	7629723	7678433	1.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	84374	82638	83463	83491	1.04	cps
Cobalt	59-2	100913	98994	98594	99500	1.25	cps
Copper	63-2	1226474	1240862	1231867	1233068	0.59	cps
Dysprosium	156-1	85428	85444	85592	85488	0.11	cps
Dysprosium	156-2	58612	56707	58511	57943	1.85	cps
Erbium	164-1	63798	64816	63848	64154	0.89	cps
Erbium	164-2	40118	39800	39907	39941	0.40	cps
Gadolinium	160-1	93590	94553	94439	94194	0.56	cps
Gadolinium	160-2	60912	63567	61280	61919	2.32	cps
Holmium	165-1	29071684	31173418	31489808	30578303	4.30	cps
Holmium	165-2	20134416	19517633	19790616	19814222	1.56	cps
Indium	115-1	24577747	26536971	26421014	25845244	4.25	cps
Indium	115-2	9425823	9185368	9200518	9270570	1.45	cps
Iron	56-2	50669624	50483313	50096656	50416531	0.58	cps
Iron	57-2	1262345	1287829	1271860	1274011	1.01	cps
Iron	54-2	2789866	2729882	2771048	2763599	1.11	cps
Krypton	83-1	553	537	523	538	2.79	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	130997	133684	133397	132693	1.11	cps
Lead	207-1	109107	109621	110529	109752	0.66	cps
Lead	208-1	508718	511351	515347	511805	0.65	cps
Lithium	6-1	1395796	1492817	1444247	1444287	3.36	cps
Magnesium	24-2	3493860	3553733	3465817	3504470	1.28	cps
Manganese	55-2	2541664	2535396	2535473	2537511	0.14	cps
Molybdenum	94-1	15902	15859	15525	15762	1.31	cps
Molybdenum	95-1	547	467	497	503	8.03	cps
Molybdenum	96-1	3467	3590	3577	3545	1.91	cps
Molybdenum	97-1	360	337	330	342	4.60	cps
Molybdenum	98-1	600	700	753	684	11.37	cps
Neodymium	150-1	93930	95252	94259	94480	0.73	cps
Neodymium	150-2	49801	50671	50898	50457	1.15	cps
Nickel	60-2	50030	50157	50214	50133	0.19	cps
Phosphorus	31-2	14220	14253	13860	14111	1.55	cps
Potassium	39-2	962681	967696	968198	966192	0.32	cps
Rhodium	103-1	23523880	24945813	25566925	24678872	4.24	cps
Rhodium	103-2	15638034	15140212	15092717	15290321	1.98	cps
Scandium	45-1	11553408	12217265	12397639	12056104	3.69	cps
Scandium	45-2	1251205	1288109	1214059	1251124	2.96	cps
Selenium	82-1	974	1078	1201	1085	10.50	cps
Selenium	77-2	327	320	283	310	7.53	cps
Selenium	78-2	787	800	707	764	6.60	cps
Silicon	28-1	23674459	23447881	23159417	23427252	1.10	cps
Silver	107-1	2147	2087	2247	2160	3.74	cps
Silver	109-1	1887	1900	1803	1863	2.81	cps
Sodium	23-2	501797	507291	503395	504161	0.56	cps
Strontium	86-1	228264	230341	227972	228859	0.56	cps
Strontium	88-1	2028497	2015015	2030396	2024636	0.41	cps
Sulfur	34-1	202145	204263	204110	203506	0.58	cps
Terbium	159-1	30303880	32347307	32703338	31784842	4.07	cps
Terbium	159-2	19893029	19918454	19661603	19824362	0.71	cps
Thallium	203-1	1700	1480	1400	1527	10.18	cps
Thallium	205-1	3480	3454	3257	3397	3.59	cps
Tin	118-1	5935	5751	5928	5871	1.77	cps
Titanium	47-1	67747	68461	70439	68882	2.02	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-08DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N3	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:17:09	DataFile Name :	079SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	55575	56228	56486	56096	0.84	cps
Vanadium	51-2	109678	111199	109205	110027	0.95	cps
Yttrium	89-1	35699568	38138286	38576453	37471436	4.14	cps
Yttrium	89-2	10414810	10319899	10105642	10280117	1.54	cps
Zinc	66-2	47050	45984	46101	46378	1.26	cps
Zirconium	90-1	41271	42331	41428	41677	1.37	cps
Zirconium	91-1	9343	9436	9533	9438	1.01	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2944389	2955624	2955964	2951992	0.22	cps
Antimony	121-1	387	370	490	416	15.64	cps
Arsenic	75-2	3077	3194	3124	3131	1.88	cps
Barium	135-1	889143	889550	894226	890973	0.32	cps
Barium	137-1	1529653	1561440	1568038	1553044	1.32	cps
Beryllium	9-1	1200	1067	1022	1096	8.44	cps
Bismuth	209-1	18450150	18777460	18839376	18688995	1.12	cps
Bismuth	209-2	13285444	13138096	10049615	12157718	15.03	cps
Bromine	81-1	19897	20414	20688	20333	1.98	cps
Bromine	81-2	1137	970	997	1034	8.65	cps
Cadmium	108-1	80	110	147	112	29.75	cps
Cadmium	106-1	8980	8936	9333	9083	2.40	cps
Cadmium	111-1	6540	6458	6777	6592	2.51	cps
Calcium	43-1	521223	518732	511506	517153	0.98	cps
Calcium	44-1	8292251	8171205	8162182	8208546	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	116892	119069	120010	118657	1.35	cps
Cobalt	59-2	139529	141930	143411	141623	1.38	cps
Copper	63-2	1769374	1786236	1768973	1774861	0.56	cps
Dysprosium	156-1	107363	107215	107226	107268	0.08	cps
Dysprosium	156-2	72512	72613	73193	72773	0.50	cps
Erbium	164-1	79746	79166	79048	79320	0.47	cps
Erbium	164-2	50153	49394	49491	49679	0.83	cps
Gadolinium	160-1	118338	118519	117454	118104	0.48	cps
Gadolinium	160-2	77456	77382	77067	77302	0.27	cps
Holmium	165-1	31823866	32073975	31620087	31839310	0.71	cps
Holmium	165-2	20596828	20377069	15372975	18782290	15.73	cps
Indium	115-1	26874518	26715211	26819788	26803172	0.30	cps
Indium	115-2	9833988	9563605	7183735	8860443	16.46	cps
Iron	56-2	72920452	73077607	73478951	73159003	0.39	cps
Iron	57-2	1829125	1816762	1839390	1828426	0.62	cps
Iron	54-2	4061019	3963853	4016977	4013950	1.21	cps
Krypton	83-1	550	510	527	529	3.80	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	165380	167505	165180	166022	0.78	cps
Lead	207-1	137053	138013	139113	138060	0.75	cps
Lead	208-1	638268	641547	646787	642200	0.67	cps
Lithium	6-1	1485296	1492677	1410114	1462696	3.12	cps
Magnesium	24-2	4774873	4781314	4767690	4774626	0.14	cps
Manganese	55-2	3013124	2982186	2985312	2993541	0.57	cps
Molybdenum	94-1	18886	19026	19036	18982	0.44	cps
Molybdenum	95-1	550	557	580	562	2.80	cps
Molybdenum	96-1	4457	4614	4634	4569	2.12	cps
Molybdenum	97-1	333	397	417	382	11.38	cps
Molybdenum	98-1	847	967	890	901	6.74	cps
Neodymium	150-1	119007	117205	119289	118501	0.95	cps
Neodymium	150-2	63599	64199	63572	63790	0.55	cps
Nickel	60-2	72996	73817	73693	73502	0.60	cps
Phosphorus	31-2	17397	16883	17470	17250	1.86	cps
Potassium	39-2	1201685	1235273	1233529	1223496	1.55	cps
Rhodium	103-1	25309785	25666318	25664668	25546924	0.80	cps
Rhodium	103-2	16318516	15724004	11923336	14655286	16.27	cps
Scandium	45-1	12474141	12306842	12415465	12398816	0.68	cps
Scandium	45-2	1330236	1331940	956893	1206356	17.91	cps
Selenium	82-1	1145	1120	1266	1177	6.64	cps
Selenium	77-2	343	413	383	380	9.24	cps
Selenium	78-2	707	930	900	846	14.34	cps
Silicon	28-1	33315843	32971913	32991817	33093191	0.58	cps
Silver	107-1	4607	4677	4617	4634	0.82	cps
Silver	109-1	4454	4411	4511	4459	1.13	cps
Sodium	23-2	523976	524178	521334	523163	0.30	cps
Strontium	86-1	279058	275599	278875	277844	0.70	cps
Strontium	88-1	2461077	2464466	2472484	2466009	0.24	cps
Sulfur	34-1	207823	204804	201547	204725	1.53	cps
Terbium	159-1	33100246	33585948	33246010	33310735	0.75	cps
Terbium	159-2	21063963	20768281	15408444	19080229	16.68	cps
Thallium	203-1	2050	1837	1837	1908	6.46	cps
Thallium	205-1	4674	4351	4461	4495	3.66	cps
Tin	118-1	7352	7355	7112	7273	1.92	cps
Titanium	47-1	94300	93258	94578	94045	0.74	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-09DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N4	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:20:21	DataFile Name :	080SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	72164	72882	72342	72462	0.52	cps
Vanadium	51-2	142155	142778	143760	142898	0.57	cps
Yttrium	89-1	39274288	39055511	38707354	39012384	0.73	cps
Yttrium	89-2	10899354	10658362	8175600	9911105	15.21	cps
Zinc	66-2	75530	74793	76548	75623	1.17	cps
Zirconium	90-1	50704	50266	51035	50668	0.76	cps
Zirconium	91-1	11398	11675	11408	11494	1.37	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2670721	2655496	2618060	2648093	1.02	cps
Antimony	121-1	287	327	340	318	8.73	cps
Arsenic	75-2	3204	2834	3097	3045	6.26	cps
Barium	135-1	774425	779864	774489	776259	0.40	cps
Barium	137-1	1340339	1335021	1344502	1339954	0.35	cps
Beryllium	9-1	1022	906	917	948	6.79	cps
Bismuth	209-1	18818439	18819833	18401512	18679928	1.29	cps
Bismuth	209-2	12777215	12766996	12653175	12732462	0.54	cps
Bromine	81-1	18936	19486	19697	19373	2.03	cps
Bromine	81-2	867	920	820	869	5.76	cps
Cadmium	108-1	117	107	90	104	12.90	cps
Cadmium	106-1	8799	8456	8606	8620	2.00	cps
Cadmium	111-1	6298	6014	6175	6162	2.31	cps
Calcium	43-1	527243	522962	520770	523658	0.63	cps
Calcium	44-1	8360412	8296546	8340244	8332401	0.39	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	103656	101656	101783	102365	1.09	cps
Cobalt	59-2	130253	128874	128508	129212	0.71	cps
Copper	63-2	2001011	2011718	1988924	2000551	0.57	cps
Dysprosium	156-1	93267	91955	93492	92904	0.89	cps
Dysprosium	156-2	62602	61842	62639	62361	0.72	cps
Erbium	164-1	68487	70302	69947	69579	1.38	cps
Erbium	164-2	42855	42899	43006	42920	0.18	cps
Gadolinium	160-1	102750	101192	102461	102134	0.81	cps
Gadolinium	160-2	66413	66969	67119	66834	0.56	cps
Holmium	165-1	32359345	32014171	32089530	32154349	0.56	cps
Holmium	165-2	19585955	19476591	19506214	19522920	0.29	cps
Indium	115-1	27234563	26998571	26817481	27016872	0.77	cps
Indium	115-2	9179938	9196678	9196131	9190916	0.10	cps
Iron	56-2	67188389	65990752	66548027	66575723	0.90	cps
Iron	57-2	1655824	1689179	1654111	1666371	1.19	cps
Iron	54-2	3697626	3601389	3665892	3654969	1.34	cps
Krypton	83-1	610	623	527	587	8.93	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	158452	157865	157821	158046	0.22	cps
Lead	207-1	130748	131920	131290	131319	0.45	cps
Lead	208-1	608812	614598	612128	611846	0.47	cps
Lithium	6-1	1525024	1400872	1445660	1457185	4.31	cps
Magnesium	24-2	4479647	4412526	4348932	4413702	1.48	cps
Manganese	55-2	3219603	3125905	3172166	3172558	1.48	cps
Molybdenum	94-1	17661	17901	17881	17814	0.75	cps
Molybdenum	95-1	617	613	797	676	15.53	cps
Molybdenum	96-1	4304	4231	4461	4332	2.71	cps
Molybdenum	97-1	413	383	403	400	3.82	cps
Molybdenum	98-1	983	940	907	943	4.08	cps
Neodymium	150-1	101730	101553	101318	101533	0.20	cps
Neodymium	150-2	54337	55231	55141	54903	0.90	cps
Nickel	60-2	69748	69068	69487	69434	0.49	cps
Phosphorus	31-2	15171	14927	14233	14777	3.29	cps
Potassium	39-2	1104120	1097022	1093167	1098103	0.51	cps
Rhodium	103-1	26150436	25335155	25619910	25701834	1.61	cps
Rhodium	103-2	15156038	15179653	15059470	15131720	0.42	cps
Scandium	45-1	12541086	12346726	12341120	12409644	0.92	cps
Scandium	45-2	1263061	1240181	1206536	1236592	2.30	cps
Selenium	82-1	1170	1085	1124	1127	3.77	cps
Selenium	77-2	370	337	237	314	22.07	cps
Selenium	78-2	780	753	783	772	2.13	cps
Silicon	28-1	25413938	25000417	24885231	25099862	1.11	cps
Silver	107-1	3587	3487	3634	3569	2.10	cps
Silver	109-1	3394	3154	3237	3262	3.74	cps
Sodium	23-2	508531	495718	493772	499340	1.61	cps
Strontium	86-1	247572	248161	246511	247415	0.34	cps
Strontium	88-1	2295827	2190194	2202859	2229627	2.59	cps
Sulfur	34-1	194933	197238	196098	196090	0.59	cps
Terbium	159-1	33624238	32854451	33173141	33217277	1.16	cps
Terbium	159-2	19902775	19797999	19692491	19797755	0.53	cps
Thallium	203-1	1743	1757	1750	1750	0.38	cps
Thallium	205-1	4121	3884	3984	3996	2.97	cps
Tin	118-1	6598	6728	6311	6546	3.26	cps
Titanium	47-1	83744	83921	82664	83443	0.82	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-10DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N5	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:23:26	DataFile Name :	081SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	61729	62409	62194	62111	0.56	cps
Vanadium	51-2	127267	126455	126555	126759	0.35	cps
Yttrium	89-1	39678314	39119434	38975703	39257817	0.95	cps
Yttrium	89-2	10231510	10197292	10125058	10184620	0.53	cps
Zinc	66-2	60371	60950	59903	60408	0.87	cps
Zirconium	90-1	47670	48413	47610	47898	0.93	cps
Zirconium	91-1	10754	10754	10480	10663	1.48	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2389727	2341179	2323476	2351461	1.46	cps
Antimony	121-1	330	347	417	364	12.62	cps
Arsenic	75-2	2600	2534	2554	2562	1.34	cps
Barium	135-1	712884	713680	708766	711777	0.37	cps
Barium	137-1	1226742	1238359	1231340	1232147	0.47	cps
Beryllium	9-1	928	939	917	928	1.20	cps
Bismuth	209-1	18642391	18603847	18895652	18713963	0.85	cps
Bismuth	209-2	12638149	12656006	12537836	12610664	0.51	cps
Bromine	81-1	18932	19256	19022	19070	0.88	cps
Bromine	81-2	867	810	963	880	8.81	cps
Cadmium	108-1	73	130	107	103	27.56	cps
Cadmium	106-1	8996	8706	8793	8832	1.69	cps
Cadmium	111-1	6446	6183	6247	6292	2.18	cps
Calcium	43-1	387050	383507	375813	382123	1.50	cps
Calcium	44-1	6247788	6173034	6141507	6187443	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	89467	90607	90124	90066	0.64	cps
Cobalt	59-2	117287	115809	115870	116322	0.72	cps
Copper	63-2	4621507	4632292	4611070	4621623	0.23	cps
Dysprosium	156-1	81398	82699	82661	82252	0.90	cps
Dysprosium	156-2	55024	54378	53930	54444	1.01	cps
Erbium	164-1	61889	62603	61511	62001	0.89	cps
Erbium	164-2	38536	38326	38871	38578	0.71	cps
Gadolinium	160-1	89963	90939	89953	90285	0.63	cps
Gadolinium	160-2	60577	59814	59533	59974	0.90	cps
Holmium	165-1	31718602	31416054	31703712	31612789	0.54	cps
Holmium	165-2	19619239	19505852	19363089	19496060	0.66	cps
Indium	115-1	26623335	26368251	26375363	26455650	0.55	cps
Indium	115-2	9197133	8966674	9040841	9068216	1.30	cps
Iron	56-2	62893092	61648232	62844557	62461961	1.13	cps
Iron	57-2	1550895	1529009	1542652	1540852	0.72	cps
Iron	54-2	3379659	3412200	3363488	3385116	0.73	cps
Krypton	83-1	560	583	487	543	9.28	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	133575	135073	136639	135096	1.13	cps
Lead	207-1	110252	112514	113173	111980	1.37	cps
Lead	208-1	517516	523897	529404	523606	1.14	cps
Lithium	6-1	1469398	1431250	1351706	1417451	4.24	cps
Magnesium	24-2	3994613	4044753	3967052	4002139	0.98	cps
Manganese	55-2	2156008	2171717	2172228	2166651	0.43	cps
Molybdenum	94-1	17410	17781	17467	17553	1.14	cps
Molybdenum	95-1	440	600	597	546	16.76	cps
Molybdenum	96-1	3640	4214	4061	3972	7.48	cps
Molybdenum	97-1	287	333	337	319	8.77	cps
Molybdenum	98-1	643	767	767	726	9.81	cps
Neodymium	150-1	85695	87848	86929	86824	1.24	cps
Neodymium	150-2	47363	47584	47653	47533	0.32	cps
Nickel	60-2	59109	59236	59615	59320	0.44	cps
Phosphorus	31-2	12265	12502	12138	12302	1.50	cps
Potassium	39-2	1039750	1037526	1033732	1037003	0.29	cps
Rhodium	103-1	25792290	25285152	25273045	25450163	1.16	cps
Rhodium	103-2	15123825	15025538	15120158	15089840	0.37	cps
Scandium	45-1	12459048	12046925	12240304	12248759	1.68	cps
Scandium	45-2	1207173	1204149	1228857	1213393	1.11	cps
Selenium	82-1	1191	1134	1227	1184	3.96	cps
Selenium	77-2	243	253	283	260	8.01	cps
Selenium	78-2	783	767	793	781	1.72	cps
Silicon	28-1	22851153	22881005	22014838	22582332	2.18	cps
Silver	107-1	5421	5448	5658	5509	2.35	cps
Silver	109-1	5061	5184	5264	5170	1.98	cps
Sodium	23-2	418660	421683	420526	420290	0.36	cps
Strontium	86-1	251140	255253	255495	253962	0.96	cps
Strontium	88-1	2217538	2272979	2231078	2240531	1.29	cps
Sulfur	34-1	195362	193050	191362	193258	1.04	cps
Terbium	159-1	32723710	32629300	32375679	32576229	0.55	cps
Terbium	159-2	19966091	19600296	19507444	19691277	1.23	cps
Thallium	203-1	1623	1520	1610	1585	3.55	cps
Thallium	205-1	3831	3691	3721	3747	1.97	cps
Tin	118-1	6848	6318	6371	6513	4.48	cps
Titanium	47-1	87085	86073	86183	86447	0.64	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:26:35	DataFile Name :	082SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	54608	56499	56543	55883	1.98	cps
Vanadium	51-2	119798	120281	120036	120038	0.20	cps
Yttrium	89-1	39116565	38549584	38312504	38659551	1.07	cps
Yttrium	89-2	9968803	10147245	10117249	10077766	0.95	cps
Zinc	66-2	53730	54873	54174	54259	1.06	cps
Zirconium	90-1	46767	47252	46209	46743	1.12	cps
Zirconium	91-1	10884	10324	10384	10531	2.92	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2503615	2517437	2533506	2518186	0.59	cps
Antimony	121-1	280	350	450	360	23.73	cps
Arsenic	75-2	2714	2634	2714	2687	1.72	cps
Barium	135-1	755822	763935	766512	762090	0.73	cps
Barium	137-1	1314657	1313811	1310518	1312995	0.17	cps
Beryllium	9-1	1011	994	944	983	3.53	cps
Bismuth	209-1	19093033	19094365	19248936	19145444	0.47	cps
Bismuth	209-2	13087356	12719878	12917342	12908192	1.42	cps
Bromine	81-1	18435	19877	19593	19302	3.96	cps
Bromine	81-2	917	877	1000	931	6.76	cps
Cadmium	108-1	113	120	100	111	9.17	cps
Cadmium	106-1	8666	8453	8756	8625	1.81	cps
Cadmium	111-1	6147	6039	6209	6132	1.40	cps
Calcium	43-1	420919	416653	420220	419264	0.55	cps
Calcium	44-1	6753622	6647678	6640803	6680701	0.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101348	100572	101697	101205	0.57	cps
Cobalt	59-2	127170	125109	124552	125610	1.10	cps
Copper	63-2	4446413	4451483	4461955	4453284	0.18	cps
Dysprosium	156-1	87963	87906	87346	87738	0.39	cps
Dysprosium	156-2	58903	57999	58943	58615	0.91	cps
Erbium	164-1	66594	67716	68316	67542	1.29	cps
Erbium	164-2	42127	40234	41609	41323	2.37	cps
Gadolinium	160-1	95472	97687	95979	96379	1.20	cps
Gadolinium	160-2	64367	62716	63188	63424	1.34	cps
Holmium	165-1	31918151	32134841	32096926	32049973	0.36	cps
Holmium	165-2	20082317	19757998	19764518	19868278	0.93	cps
Indium	115-1	26928040	27183949	27062998	27058329	0.47	cps
Indium	115-2	9283245	9240200	9211397	9244947	0.39	cps
Iron	56-2	68032497	66595027	67590802	67406109	1.09	cps
Iron	57-2	1694309	1701097	1671479	1688961	0.92	cps
Iron	54-2	3710238	3665968	3728676	3701627	0.87	cps
Krypton	83-1	527	573	587	562	5.60	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	144482	146405	146024	145637	0.70	cps
Lead	207-1	119119	119103	120949	119724	0.89	cps
Lead	208-1	559484	559864	567023	562123	0.76	cps
Lithium	6-1	1448262	1395926	1379206	1407798	2.56	cps
Magnesium	24-2	4327369	4347305	4340838	4338504	0.23	cps
Manganese	55-2	2451665	2406116	2452083	2436621	1.08	cps
Molybdenum	94-1	18585	18458	17934	18326	1.88	cps
Molybdenum	95-1	487	487	533	502	5.36	cps
Molybdenum	96-1	4047	4017	4024	4029	0.39	cps
Molybdenum	97-1	293	320	390	334	14.93	cps
Molybdenum	98-1	587	620	687	631	8.07	cps
Neodymium	150-1	92108	93967	94004	93360	1.16	cps
Neodymium	150-2	50690	50902	50868	50820	0.22	cps
Nickel	60-2	64903	62359	64548	63937	2.16	cps
Phosphorus	31-2	13399	13633	13740	13591	1.28	cps
Potassium	39-2	1100463	1092605	1096122	1096397	0.36	cps
Rhodium	103-1	25777271	25472900	25703495	25651222	0.62	cps
Rhodium	103-2	15315679	15378034	15269098	15320937	0.36	cps
Scandium	45-1	12338780	12215499	12033514	12195931	1.26	cps
Scandium	45-2	1240416	1204730	1218659	1221268	1.47	cps
Selenium	82-1	1230	1155	1192	1193	3.15	cps
Selenium	77-2	373	227	347	316	24.76	cps
Selenium	78-2	767	890	753	803	9.38	cps
Silicon	28-1	24938801	24329125	23862240	24376722	2.21	cps
Silver	107-1	5885	5868	5805	5852	0.72	cps
Silver	109-1	5588	5418	5464	5490	1.60	cps
Sodium	23-2	442931	433974	435953	437619	1.08	cps
Strontium	86-1	266813	265268	265526	265869	0.31	cps
Strontium	88-1	2406516	2374149	2389129	2389931	0.68	cps
Sulfur	34-1	190154	190026	187009	189063	0.94	cps
Terbium	159-1	32768588	32951741	32899915	32873415	0.29	cps
Terbium	159-2	19975461	20020357	19964307	19986708	0.15	cps
Thallium	203-1	1550	1720	1803	1691	7.64	cps
Thallium	205-1	3901	4137	3817	3952	4.20	cps
Tin	118-1	6638	6545	6602	6595	0.71	cps
Titanium	47-1	95288	92789	92661	93579	1.58	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-12DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6D	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:29:40	DataFile Name :	083SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60932	62553	61756	61747	1.31	cps
Vanadium	51-2	130744	128309	131063	130039	1.16	cps
Yttrium	89-1	39346589	39719787	39667804	39578060	0.51	cps
Yttrium	89-2	10341760	10283399	10261506	10295555	0.40	cps
Zinc	66-2	58638	57754	57410	57934	1.09	cps
Zirconium	90-1	48072	49460	49128	48887	1.48	cps
Zirconium	91-1	10924	11114	10631	10890	2.24	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	482866	480215	477929	480337	0.51	cps
Antimony	121-1	153	147	167	156	6.55	cps
Arsenic	75-2	567	647	467	560	16.10	cps
Barium	135-1	139479	135279	139623	138127	1.79	cps
Barium	137-1	239976	239480	238572	239343	0.30	cps
Beryllium	9-1	256	194	200	217	15.60	cps
Bismuth	209-1	19009118	18882602	18912301	18934674	0.35	cps
Bismuth	209-2	12834552	12925771	12813990	12858104	0.46	cps
Bromine	81-1	18261	18318	18018	18199	0.88	cps
Bromine	81-2	293	370	340	334	11.55	cps
Cadmium	108-1	50	47	17	38	48.59	cps
Cadmium	106-1	8996	8756	8296	8683	4.10	cps
Cadmium	111-1	6312	6147	5849	6103	3.85	cps
Calcium	43-1	76947	77011	77276	77078	0.23	cps
Calcium	44-1	1281044	1263106	1245585	1263245	1.40	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20381	20200	19533	20038	2.23	cps
Cobalt	59-2	22951	22918	23298	23056	0.91	cps
Copper	63-2	907801	897714	897286	900933	0.66	cps
Dysprosium	156-1	15929	15592	16169	15897	1.82	cps
Dysprosium	156-2	10701	10551	10664	10639	0.74	cps
Erbium	164-1	12356	12299	12372	12342	0.31	cps
Erbium	164-2	7782	7482	7639	7634	1.97	cps
Gadolinium	160-1	17471	17287	17451	17403	0.58	cps
Gadolinium	160-2	12349	11989	12419	12252	1.89	cps
Holmium	165-1	31862944	31876005	31910586	31883178	0.08	cps
Holmium	165-2	20085463	19508807	19651131	19748467	1.52	cps
Indium	115-1	27202565	27531201	27127549	27287105	0.79	cps
Indium	115-2	9437635	9440880	9275149	9384555	1.01	cps
Iron	56-2	12293206	12156274	12354389	12267956	0.83	cps
Iron	57-2	313311	308711	309953	310658	0.77	cps
Iron	54-2	684013	677980	683482	681825	0.49	cps
Krypton	83-1	523	447	487	486	7.90	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	27201	27662	27775	27546	1.10	cps
Lead	207-1	23394	22469	22799	22887	2.05	cps
Lead	208-1	107881	105676	107275	106944	1.07	cps
Lithium	6-1	1504256	1504289	1509419	1505988	0.20	cps
Magnesium	24-2	775625	771485	772286	773132	0.28	cps
Manganese	55-2	436470	436160	432940	435190	0.45	cps
Molybdenum	94-1	4164	4307	4404	4292	2.81	cps
Molybdenum	95-1	230	283	330	281	17.80	cps
Molybdenum	96-1	1240	1130	1220	1197	4.90	cps
Molybdenum	97-1	227	227	187	213	10.83	cps
Molybdenum	98-1	417	467	437	440	5.72	cps
Neodymium	150-1	16613	16813	16867	16765	0.80	cps
Neodymium	150-2	9440	9393	9113	9315	1.90	cps
Nickel	60-2	11845	11698	11998	11847	1.27	cps
Phosphorus	31-2	2704	2790	2694	2729	1.95	cps
Potassium	39-2	284065	285026	282592	283894	0.43	cps
Rhodium	103-1	26432560	25803274	26066185	26100673	1.21	cps
Rhodium	103-2	15583416	15493902	15323119	15466812	0.86	cps
Scandium	45-1	12698744	12659252	12503389	12620461	0.82	cps
Scandium	45-2	1235165	1240365	1227358	1234296	0.53	cps
Selenium	82-1	1142	1235	1173	1183	3.99	cps
Selenium	77-2	57	27	73	52	45.28	cps
Selenium	78-2	630	773	710	704	10.20	cps
Silicon	28-1	5538686	5601666	5672819	5604391	1.20	cps
Silver	107-1	1303	1150	1123	1192	8.15	cps
Silver	109-1	1103	1073	1063	1080	1.93	cps
Sodium	23-2	132900	131681	129906	131496	1.15	cps
Strontium	86-1	49807	50821	50225	50284	1.01	cps
Strontium	88-1	437670	434874	433200	435248	0.52	cps
Sulfur	34-1	189625	188244	188551	188806	0.38	cps
Terbium	159-1	33712245	32855786	33365115	33311048	1.29	cps
Terbium	159-2	19993862	20097211	19907075	19999383	0.48	cps
Thallium	203-1	513	533	527	524	1.94	cps
Thallium	205-1	1340	1293	1343	1326	2.11	cps
Tin	118-1	3517	3284	3394	3398	3.44	cps
Titanium	47-1	17347	17617	17373	17446	0.85	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-11LDLX10	Instrumnet Name :	P7
Client Sample ID :	MBH6N6L	Dilution Factor :	10
Date & Time Acquired :	2024-11-10 02:32:49	DataFile Name :	084SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10447	10891	10658	10665	2.08	cps
Vanadium	51-2	24109	24226	23609	23981	1.37	cps
Yttrium	89-1	38759587	38963802	38996308	38906566	0.33	cps
Yttrium	89-2	10287589	10289610	10098045	10225082	1.08	cps
Zinc	66-2	13166	13319	13126	13204	0.77	cps
Zirconium	90-1	12225	11401	11588	11738	3.68	cps
Zirconium	91-1	2484	2480	2600	2521	2.71	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2456714	2453405	2447713	2452611	0.19	cps
Antimony	121-1	296899	300604	300965	299489	0.75	cps
Arsenic	75-2	8669	8706	8776	8717	0.62	cps
Barium	135-1	2165647	2124513	2144602	2144921	0.96	cps
Barium	137-1	3695226	3651669	3657049	3667981	0.65	cps
Beryllium	9-1	8908	9047	8163	8706	5.46	cps
Bismuth	209-1	19017651	18819313	19103147	18980037	0.77	cps
Bismuth	209-2	13145379	13030747	12972494	13049540	0.67	cps
Bromine	81-1	19076	19002	20037	19372	2.98	cps
Bromine	81-2	873	857	867	866	0.97	cps
Cadmium	108-1	2467	2520	2544	2510	1.57	cps
Cadmium	106-1	12432	12562	12145	12380	1.72	cps
Cadmium	111-1	44792	45340	44748	44960	0.73	cps
Calcium	43-1	401910	397377	398208	399165	0.60	cps
Calcium	44-1	6404858	6367509	6395592	6389320	0.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	331823	331202	325900	329642	0.99	cps
Cobalt	59-2	1071330	1065192	1064547	1067023	0.35	cps
Copper	63-2	4950001	4938275	4933658	4940645	0.17	cps
Dysprosium	156-1	83865	84321	83583	83923	0.44	cps
Dysprosium	156-2	55730	55917	55593	55747	0.29	cps
Erbium	164-1	62362	62834	63744	62980	1.12	cps
Erbium	164-2	38774	39456	39091	39107	0.87	cps
Gadolinium	160-1	92029	92187	91929	92048	0.14	cps
Gadolinium	160-2	60332	61112	60577	60674	0.66	cps
Holmium	165-1	31992424	32072240	32233895	32099519	0.38	cps
Holmium	165-2	20065523	19812938	19741719	19873393	0.86	cps
Indium	115-1	26764089	27042249	27052132	26952823	0.61	cps
Indium	115-2	9275203	9311199	9328780	9305061	0.29	cps
Iron	56-2	63852599	63206069	62801019	63286562	0.84	cps
Iron	57-2	1579720	1558727	1539576	1559341	1.29	cps
Iron	54-2	3478072	3502261	3472687	3484340	0.45	cps
Krypton	83-1	627	590	577	598	4.33	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	179786	181892	181622	181100	0.63	cps
Lead	207-1	150631	153162	152859	152217	0.91	cps
Lead	208-1	702212	709518	706601	706110	0.52	cps
Lithium	6-1	1513261	1497265	1459939	1490155	1.84	cps
Magnesium	24-2	4042515	4086433	3986350	4038433	1.24	cps
Manganese	55-2	2718937	2737510	2664040	2706829	1.41	cps
Molybdenum	94-1	17561	18312	17764	17879	2.17	cps
Molybdenum	95-1	810	777	757	781	3.45	cps
Molybdenum	96-1	4281	4271	4481	4344	2.73	cps
Molybdenum	97-1	510	487	450	482	6.27	cps
Molybdenum	98-1	1050	1140	1357	1182	13.33	cps
Neodymium	150-1	88103	89274	89204	88860	0.74	cps
Neodymium	150-2	48527	48189	48145	48287	0.43	cps
Nickel	60-2	308702	307605	309714	308674	0.34	cps
Phosphorus	31-2	12859	13212	12435	12835	3.03	cps
Potassium	39-2	1034345	1039373	1036137	1036618	0.25	cps
Rhodium	103-1	25368790	25593996	25701162	25554649	0.66	cps
Rhodium	103-2	15522939	15269132	15246166	15346079	1.00	cps
Scandium	45-1	12466210	12453134	12353663	12424336	0.50	cps
Scandium	45-2	1271471	1254774	1245299	1257181	1.05	cps
Selenium	82-1	5535	5592	5501	5543	0.82	cps
Selenium	77-2	727	763	840	777	7.45	cps
Selenium	78-2	2450	2327	2197	2325	5.45	cps
Silicon	28-1	22676478	22300848	21859521	22278949	1.84	cps
Silver	107-1	198237	197837	198921	198332	0.28	cps
Silver	109-1	187385	190279	190806	189490	0.97	cps
Sodium	23-2	414728	416833	414065	415209	0.35	cps
Strontium	86-1	255285	256737	255747	255923	0.29	cps
Strontium	88-1	2268450	2291348	2254560	2271452	0.82	cps
Sulfur	34-1	198526	198117	194981	197208	0.98	cps
Terbium	159-1	33469255	33513266	33603751	33528758	0.20	cps
Terbium	159-2	20170516	20045461	20137431	20117803	0.32	cps
Thallium	203-1	135011	135756	136105	135624	0.41	cps
Thallium	205-1	311501	318130	314714	314782	1.05	cps
Tin	118-1	6978	6905	6465	6783	4.10	cps
Titanium	47-1	87511	86287	87713	87170	0.88	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-13DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N6S	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:36:02	DataFile Name :	085SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	57346	57805	57048	57400	0.66	cps
Vanadium	51-2	624951	620051	615959	620320	0.73	cps
Yttrium	89-1	38830728	39193479	39780659	39268289	1.22	cps
Yttrium	89-2	10387895	10356563	10137219	10293892	1.33	cps
Zinc	66-2	167737	166224	165593	166518	0.66	cps
Zirconium	90-1	47680	47871	48319	47957	0.68	cps
Zirconium	91-1	10684	10904	10667	10752	1.23	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2875550	2868114	2815304	2852989	1.15	cps
Antimony	121-1	463	380	450	431	10.38	cps
Arsenic	75-2	2920	2910	2780	2870	2.72	cps
Barium	135-1	715987	727152	712450	718530	1.07	cps
Barium	137-1	1237221	1251020	1245051	1244430	0.56	cps
Beryllium	9-1	1067	1128	961	1052	8.02	cps
Bismuth	209-1	19175302	19259653	19340529	19258495	0.43	cps
Bismuth	209-2	13022692	12902628	13152601	13025974	0.96	cps
Bromine	81-1	19453	19707	19743	19634	0.81	cps
Bromine	81-2	683	700	770	718	6.41	cps
Cadmium	108-1	190	147	113	150	25.63	cps
Cadmium	106-1	9186	9160	9040	9128	0.86	cps
Cadmium	111-1	6581	6582	6535	6566	0.41	cps
Calcium	43-1	765291	757289	749411	757330	1.05	cps
Calcium	44-1	12097562	12088282	11884500	12023448	1.00	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	125134	123961	124694	124596	0.48	cps
Cobalt	59-2	144743	143565	141386	143231	1.19	cps
Copper	63-2	1568714	1532604	1533186	1544835	1.34	cps
Dysprosium	156-1	92324	93847	92995	93055	0.82	cps
Dysprosium	156-2	62525	62582	62073	62393	0.45	cps
Erbium	164-1	69488	71277	69786	70184	1.37	cps
Erbium	164-2	43691	43628	43745	43688	0.13	cps
Gadolinium	160-1	99429	100218	100286	99978	0.48	cps
Gadolinium	160-2	66366	65814	66591	66257	0.60	cps
Holmium	165-1	32559090	32623636	32140540	32441089	0.81	cps
Holmium	165-2	20149896	19963384	19938392	20017224	0.58	cps
Indium	115-1	27615648	27400570	27073278	27363165	1.00	cps
Indium	115-2	9324834	9284782	9214396	9274671	0.60	cps
Iron	56-2	78212676	77073881	76491972	77259509	1.13	cps
Iron	57-2	1945931	1915929	1891480	1917780	1.42	cps
Iron	54-2	4247302	4196369	4167617	4203763	0.96	cps
Krypton	83-1	573	623	517	571	9.34	cps

Reviewed By:jaswal
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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	159585	159299	158098	158994	0.50	cps
Lead	207-1	130651	130604	132693	131316	0.91	cps
Lead	208-1	609925	615191	616585	613900	0.57	cps
Lithium	6-1	1547664	1494127	1498629	1513473	1.96	cps
Magnesium	24-2	4833575	4776526	4720622	4776907	1.18	cps
Manganese	55-2	4998235	4935770	4896985	4943663	1.03	cps
Molybdenum	94-1	24480	24180	24010	24223	0.98	cps
Molybdenum	95-1	747	917	893	852	10.81	cps
Molybdenum	96-1	5518	5494	5554	5522	0.55	cps
Molybdenum	97-1	440	527	497	488	9.02	cps
Molybdenum	98-1	1170	1143	1073	1129	4.42	cps
Neodymium	150-1	104389	105803	105343	105179	0.69	cps
Neodymium	150-2	58243	56289	57326	57286	1.71	cps
Nickel	60-2	78558	78122	77489	78056	0.69	cps
Phosphorus	31-2	14060	13720	14160	13980	1.65	cps
Potassium	39-2	1145430	1142076	1136959	1141488	0.37	cps
Rhodium	103-1	26099976	25834696	25810957	25915210	0.62	cps
Rhodium	103-2	15438459	15408107	15456373	15434313	0.16	cps
Scandium	45-1	12631547	12596470	12372007	12533341	1.12	cps
Scandium	45-2	1267136	1245295	1248028	1253486	0.95	cps
Selenium	82-1	1284	1225	1140	1216	5.93	cps
Selenium	77-2	357	267	313	312	14.42	cps
Selenium	78-2	873	900	797	857	6.26	cps
Silicon	28-1	22273172	21927819	21582094	21927695	1.58	cps
Silver	107-1	3370	2967	3007	3115	7.14	cps
Silver	109-1	2887	2837	2370	2698	10.56	cps
Sodium	23-2	458211	458998	457227	458145	0.19	cps
Strontium	86-1	243440	243715	244250	243802	0.17	cps
Strontium	88-1	2127839	2195801	2170585	2164741	1.59	cps
Sulfur	34-1	211398	217789	219480	216222	1.97	cps
Terbium	159-1	34142614	34058044	33554820	33918493	0.94	cps
Terbium	159-2	20255444	20035247	20175117	20155269	0.55	cps
Thallium	203-1	2047	1983	1847	1959	5.22	cps
Thallium	205-1	4881	4594	4954	4810	3.96	cps
Tin	118-1	7679	8042	7886	7869	2.32	cps
Titanium	47-1	122273	121386	120891	121516	0.58	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	P4624-14DLX2	Instrumnet Name :	P7
Client Sample ID :	MBH6N7	Dilution Factor :	2
Date & Time Acquired :	2024-11-10 02:39:08	DataFile Name :	086SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60292	60574	61290	60719	0.85	cps
Vanadium	51-2	151208	150179	150168	150518	0.40	cps
Yttrium	89-1	39385730	39413441	39367064	39388745	0.06	cps
Yttrium	89-2	10370534	10349650	10470856	10397013	0.62	cps
Zinc	66-2	79272	78475	78113	78620	0.75	cps
Zirconium	90-1	65077	65991	63955	65008	1.57	cps
Zirconium	91-1	14357	14547	13957	14287	2.11	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	28454024	27973645	28180855	28202842	0.85	cps
Antimony	121-1	13891266	13947609	14071896	13970257	0.66	cps
Arsenic	75-2	831135	833563	828382	831027	0.31	cps
Barium	135-1	17018288	17154485	17328878	17167217	0.91	cps
Barium	137-1	29017549	29443443	29646619	29369203	1.09	cps
Beryllium	9-1	798562	806292	798891	801248	0.55	cps
Bismuth	209-1	16548121	16561981	16541835	16550646	0.06	cps
Bismuth	209-2	11537923	11303080	11355402	11398802	1.08	cps
Bromine	81-1	18235	19196	19099	18843	2.81	cps
Bromine	81-2	227	197	193	206	8.93	cps
Cadmium	108-1	269273	276380	273307	272987	1.31	cps
Cadmium	106-1	389821	398449	396582	394951	1.15	cps
Cadmium	111-1	3741358	3761818	3837223	3780133	1.34	cps
Calcium	43-1	15710547	15764809	15901171	15792176	0.62	cps
Calcium	44-1	253205543	256486056	258458936	256050178	1.04	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5888888	5926516	5895109	5903504	0.34	cps
Cobalt	59-2	10027398	10065609	10198787	10097264	0.89	cps
Copper	63-2	70825822	70984017	70973281	70927707	0.12	cps
Dysprosium	156-1	683	713	740	712	3.98	cps
Dysprosium	156-2	1040	1073	963	1026	5.50	cps
Erbium	164-1	757	813	870	813	6.97	cps
Erbium	164-2	527	523	563	538	4.13	cps
Gadolinium	160-1	617	667	740	674	9.20	cps
Gadolinium	160-2	1247	1310	1217	1258	3.79	cps
Holmium	165-1	30036579	30132141	30195868	30121529	0.27	cps
Holmium	165-2	19185060	19081567	19023596	19096741	0.43	cps
Indium	115-1	24659277	24503752	24970435	24711155	0.96	cps
Indium	115-2	8848461	8750827	8877215	8825501	0.75	cps
Iron	56-2	1325254434	1312742514	1315622994	1317873314	0.50	cps
Iron	57-2	32782878	33204474	33222310	33069887	0.75	cps
Iron	54-2	71720799	71670891	71988739	71793476	0.24	cps
Krypton	83-1	517	503	647	556	14.25	cps

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Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	46968143	47366784	47571608	47302178	0.65	cps
Lead	207-1	41710651	41845309	41773085	41776349	0.16	cps
Lead	208-1	188240486	189663846	189415911	189106747	0.40	cps
Lithium	6-1	1611342	1583194	1603161	1599232	0.91	cps
Magnesium	24-2	236276096	236300590	235631150	236069279	0.16	cps
Manganese	55-2	44923293	45116443	45308744	45116160	0.43	cps
Molybdenum	94-1	49884706	51280424	50987194	50717441	1.45	cps
Molybdenum	95-1	73190986	74048792	74418464	73886081	0.85	cps
Molybdenum	96-1	79508735	81435269	81639705	80861237	1.45	cps
Molybdenum	97-1	45099139	46385724	45778301	45754388	1.41	cps
Molybdenum	98-1	117688265	119746178	118835902	118756782	0.87	cps
Neodymium	150-1	963	1013	930	969	4.33	cps
Neodymium	150-2	287	320	273	293	8.20	cps
Nickel	60-2	2539664	2581713	2562301	2561226	0.82	cps
Phosphorus	31-2	281987	281816	282146	281983	0.06	cps
Potassium	39-2	157189568	157179211	156824114	157064298	0.13	cps
Rhodium	103-1	22658911	23369343	23402275	23143509	1.81	cps
Rhodium	103-2	13852549	13868427	13889797	13870258	0.13	cps
Scandium	45-1	12395173	12503725	12552017	12483638	0.64	cps
Scandium	45-2	1278124	1287562	1269868	1278518	0.69	cps
Selenium	82-1	211462	214074	214023	213186	0.70	cps
Selenium	77-2	22604	22828	23015	22815	0.90	cps
Selenium	78-2	78138	77297	77059	77498	0.73	cps
Silicon	28-1	7124287	7256274	7283445	7221336	1.18	cps
Silver	107-1	18687096	18975871	19017898	18893621	0.95	cps
Silver	109-1	17831388	17973592	17886219	17897067	0.40	cps
Sodium	23-2	366865581	368543861	371050728	368820057	0.57	cps
Strontium	86-1	4693964	4765241	4753381	4737528	0.81	cps
Strontium	88-1	40658272	41066808	41924047	41216375	1.57	cps
Sulfur	34-1	1010654	1020931	1023335	1018307	0.66	cps
Terbium	159-1	31268494	31747494	31024465	31346817	1.17	cps
Terbium	159-2	19271886	19317458	19212007	19267117	0.27	cps
Thallium	203-1	12063701	12043273	12140663	12082546	0.43	cps
Thallium	205-1	28357333	28147740	28244741	28249938	0.37	cps
Tin	118-1	11548610	11626726	11709425	11628254	0.69	cps
Titanium	47-1	15302162	15487608	15718276	15502682	1.34	cps

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P7
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:42:15	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	37636932	37809769	37579219	37675307	0.32	cps
Vanadium	51-2	5217636	5248991	5295526	5254051	0.75	cps
Yttrium	89-1	36549948	36944014	37560688	37018217	1.38	cps
Yttrium	89-2	10187022	10118928	10213366	10173105	0.48	cps
Zinc	66-2	11526249	11566783	11422114	11505049	0.65	cps
Zirconium	90-1	24274135	24724140	24742412	24580229	1.08	cps
Zirconium	91-1	5382981	5511389	5460652	5451674	1.19	cps

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On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1027	1087	1167	1093	6.42	cps
Antimony	121-1	230	290	453	324	35.63	cps
Arsenic	75-2	13	10	3	9	57.30	cps
Barium	135-1	173	200	187	187	7.14	cps
Barium	137-1	250	290	373	304	20.67	cps
Beryllium	9-1	22	33	39	31	26.96	cps
Bismuth	209-1	18313373	18238679	18321282	18291112	0.25	cps
Bismuth	209-2	13362449	13184881	13221759	13256363	0.71	cps
Bromine	81-1	16750	17520	17224	17165	2.27	cps
Bromine	81-2	113	87	137	112	22.29	cps
Cadmium	108-1	37	20	17	24	43.83	cps
Cadmium	106-1	9957	9977	9653	9862	1.84	cps
Cadmium	111-1	6997	7010	6782	6930	1.85	cps
Calcium	43-1	753	863	900	839	9.10	cps
Calcium	44-1	45472	47254	48194	46973	2.94	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2560	2654	2354	2522	6.09	cps
Cobalt	59-2	263	257	240	253	4.75	cps
Copper	63-2	2807	2664	2627	2699	3.52	cps
Dysprosium	156-1	40	23	23	29	33.32	cps
Dysprosium	156-2	17	27	23	22	22.91	cps
Erbium	164-1	207	180	163	183	11.92	cps
Erbium	164-2	157	157	170	161	4.78	cps
Gadolinium	160-1	167	133	133	144	13.32	cps
Gadolinium	160-2	1057	1070	1137	1088	3.94	cps
Holmium	165-1	31332520	30701055	30649110	30894228	1.23	cps
Holmium	165-2	20318775	19703745	20010526	20011015	1.54	cps
Indium	115-1	27969767	27616408	27038460	27541545	1.71	cps
Indium	115-2	9983425	9781581	9867511	9877506	1.03	cps
Iron	56-2	53746	53558	52960	53421	0.77	cps
Iron	57-2	2660	2720	2707	2696	1.17	cps
Iron	54-2	6101	6085	6031	6072	0.60	cps
Krypton	83-1	563	540	483	529	7.78	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1363	1453	1257	1358	7.25	cps
Lead	207-1	1247	1040	963	1083	13.53	cps
Lead	208-1	5467	4897	4734	5033	7.65	cps
Lithium	6-1	1960045	1920825	1953011	1944627	1.08	cps
Magnesium	24-2	4691	4764	4724	4726	0.78	cps
Manganese	55-2	26076	26079	25091	25749	2.21	cps
Molybdenum	94-1	640	723	733	699	7.33	cps
Molybdenum	95-1	207	260	367	278	29.33	cps
Molybdenum	96-1	370	377	447	398	10.68	cps
Molybdenum	97-1	207	210	230	216	5.85	cps
Molybdenum	98-1	300	367	430	366	17.78	cps
Neodymium	150-1	17	20	30	22	31.22	cps
Neodymium	150-2	20	20	13	18	21.66	cps
Nickel	60-2	460	440	407	436	6.19	cps
Phosphorus	31-2	340	313	367	340	7.84	cps
Potassium	39-2	104740	103576	103354	103890	0.72	cps
Rhodium	103-1	27456820	26756300	26378802	26863974	2.04	cps
Rhodium	103-2	16072431	15832433	15737058	15880640	1.09	cps
Scandium	45-1	13908895	13779083	13857940	13848639	0.47	cps
Scandium	45-2	1395697	1379120	1365016	1379944	1.11	cps
Selenium	82-1	1115	1156	1202	1158	3.78	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	683	753	727	721	4.90	cps
Silicon	28-1	1537329	1524054	1509514	1523632	0.91	cps
Silver	107-1	260	287	260	269	5.72	cps
Silver	109-1	197	223	167	196	14.50	cps
Sodium	23-2	50639	50021	49717	50126	0.94	cps
Strontium	86-1	917	910	1017	948	6.30	cps
Strontium	88-1	777	967	1187	977	21.01	cps
Sulfur	34-1	278902	281533	281647	280694	0.55	cps
Terbium	159-1	32689083	32250097	32371532	32436904	0.70	cps
Terbium	159-2	20494926	20223692	20379091	20365903	0.67	cps
Thallium	203-1	1180	1163	1130	1158	2.20	cps
Thallium	205-1	2857	2524	2474	2618	7.96	cps
Tin	118-1	2050	1950	1947	1982	2.96	cps
Titanium	47-1	190	223	173	196	13.02	cps

Reviewed By:jaswal
On:11/11/2024 4:27:25 AM
Inst Id :P7

LB Number :	LB133380	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P7
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2024-11-10 02:57:13	DataFile Name :	091CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77	93	120	97	22.61	cps
Vanadium	51-2	63	67	67	66	2.94	cps
Yttrium	89-1	40089720	39475991	39975014	39846909	0.82	cps
Yttrium	89-2	10984467	10729455	10641652	10785191	1.65	cps
Zinc	66-2	2053	2023	2117	2065	2.31	cps
Zirconium	90-1	1547	1547	1687	1593	5.07	cps
Zirconium	91-1	293	360	330	328	10.19	cps

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Prep Standard - Chemical Standard Summary

Order ID : P4624

Test : Metals CLP MS FULL

Prepbatch ID : PB164720,

Sequence ID/Qc Batch ID: LB133380,

Standard ID :
MP82128,MP83014,MP83016,MP83032,MP83033,MP83034,MP83035,MP83036,MP83037,MP83038,MP83039,MP83041,MP83042,MP83043,MP83044,MP83046,MP83047,MP83048,MP83049,MP83050,MP83122,

Chemical ID :
M5192,M5288,M5289,M5294,M5304,M5390,M5476,M5498,M5513,M5515,M5519,M5658,M5698,M5739,M5751,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6040,M6055,M6095,M6115,M6116,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
641	1:4 HCL	MP82128	09/03/2024	02/08/2025	Janvi Patel	None	None	Sarabjit Jaswal 09/03/2024

FROM 1500.00000ml of W3112 + 500.00000ml of M6040 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP83014	11/02/2024	11/25/2024	Sarabjit Jaswal	None	None	Mohan Bera 11/04/2024

FROM 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP83016	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5769 + 5.00000ml of M5806 + 79.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP83032	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.40000ml of M5513 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6115 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6095 + 50.00000ml of M5304 + 832.80000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5751 + 9.90000ml of M5769 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3948	S6(SFAM,6020,200.8)	MP83033	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 48.50000ml of W3112 + 50.00000ml of MP83032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP83034	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 86.00000ml of W3112 + 12.50000ml of MP83032 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP83035	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 73.50000ml of W3112 + 25.00000ml of MP83032 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP83036	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83033 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP83037	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6095 + 226.25000ml of W3112 + 5.00000ml of M6115 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP83038	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 98.00000ml of W3112 + 0.50000ml of MP83037 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP83039	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83038 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP83041	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M5294 + 98.00000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP83042	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.20000ml of M5513 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5476 + 10.00000ml of M6115 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5769 + 24.95000ml of M5806 + 25.00000ml of M5304 + 4.50000ml of M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6095 + 823.45000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP83043	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 90.00000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP83044	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3964	CONC.LCSS SPIKE	MP83046	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.25000ml of M5698 + 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5982 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.25000ml of M5192 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5769 + 12.50000ml of M5806 + 12.52000ml of M5519 + 156.23000ml of W3112 + 2.50000ml of M5390 + 2.50000ml of M5818 + 5.00000ml of M5515 + 5.00000ml of M6095 + 5.00000ml of M6115 + 6.25000ml of M5816 + 6.25000ml of M5820 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP83047	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83014 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP83048	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 0.01000ml of M5769 + 9.99000ml of MP83014 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP83049	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 2.00000ml of M6055 + 2.00000ml of MP83048 + 98.00000ml of MP83014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP83050	11/02/2024	11/25/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 11/04/2024

FROM 5.00000ml of M6115 + 75.00000ml of M5739 + 170.00000ml of MP83014 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP83122	11/07/2024	12/07/2024	Janvi Patel	None	None	Sarabjit Jaswal 11/07/2024

FROM 1000.00000ml of M6116 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	01/01/2025	12/13/2023 / bin	02/20/2020 / bin	M5294

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	08/07/2024 / jaswal	04/01/2022 / jaswal	M5304

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	08/07/2024 / jaswal	09/18/2022 / bin	M5390

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57138 / Sr, 10000 PPM, 125 ml	082922	08/09/2025	07/29/2024 / jaswal	03/16/2023 / jaswal	M5476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	092122	09/21/2025	08/01/2024 / Jaswal	03/17/2023 / bin	M5515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	091823	09/18/2026	05/24/2024 / Jaswal	01/03/2024 / bin	M5769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	120523	12/05/2026	08/07/2024 / jaswal	01/03/2024 / jaswal	M5802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	122223	12/22/2026	08/01/2024 / Jaswal	01/03/2024 / jaswal	M5806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57016 / S, 1000 PPM, 125 ml	122923	12/29/2026	05/20/2024 / Jaswal	02/09/2024 / jaswal	M5816

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57034 / Se, 1000 PPM, 125 ml	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5976

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	08/07/2024 / jaswal	02/22/2024 / Jaswal	M5978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57038 / Sr, 1000 PPM, 125 ml	031524	03/15/2027	07/01/2024 / Jaswal	06/11/2024 / Jaswal	M5982

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	06/12/2027	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	01/25/2019 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/07/2024 / Jaswal	01/03/2024 / Jaswal	M6033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	24D1562005	02/08/2025	08/09/2024 / jaswal	08/01/2024 / Janvi	M6040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/04/2025	11/02/2024 / Janvi	09/29/2024 / Eman	M6115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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R: 02/22/24 M5991, M5992, M5993, M5994, M5995

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	V2-MEB742036
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/15/24

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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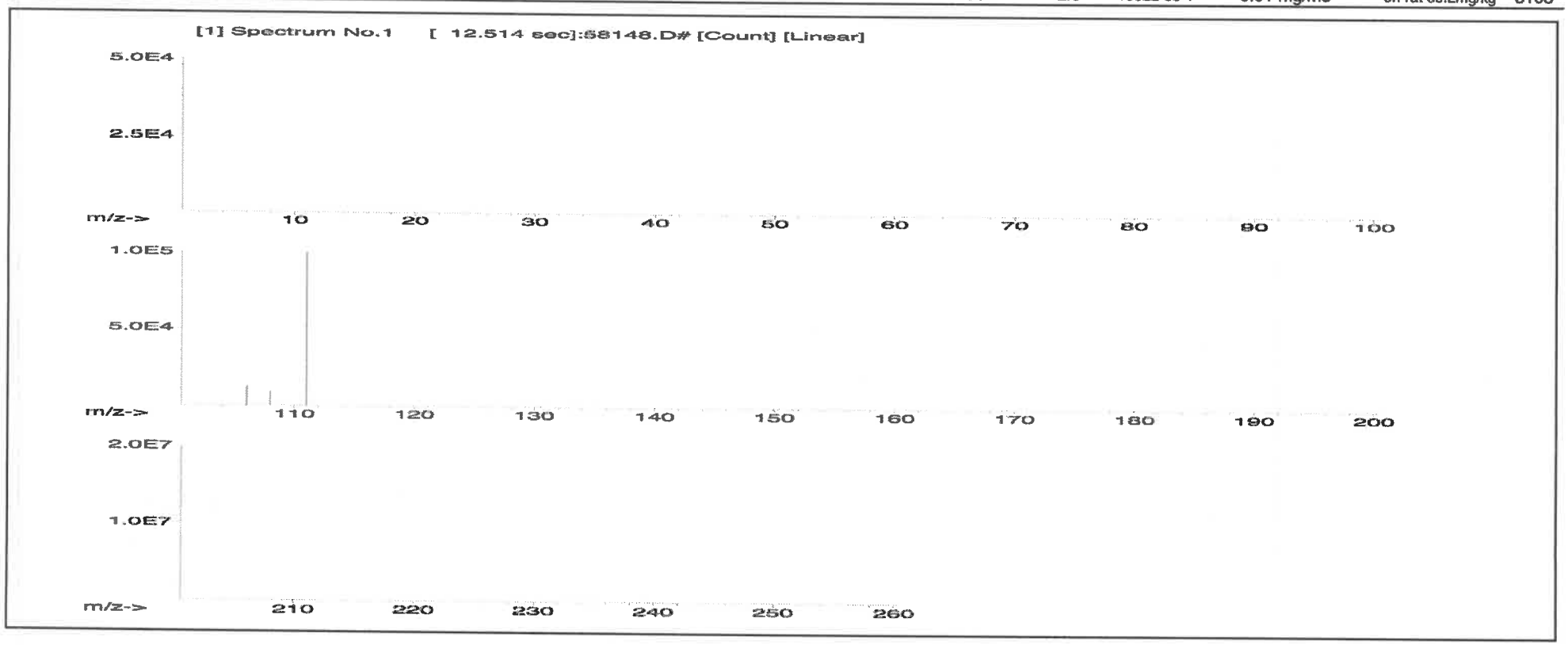
CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/5/24

569

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

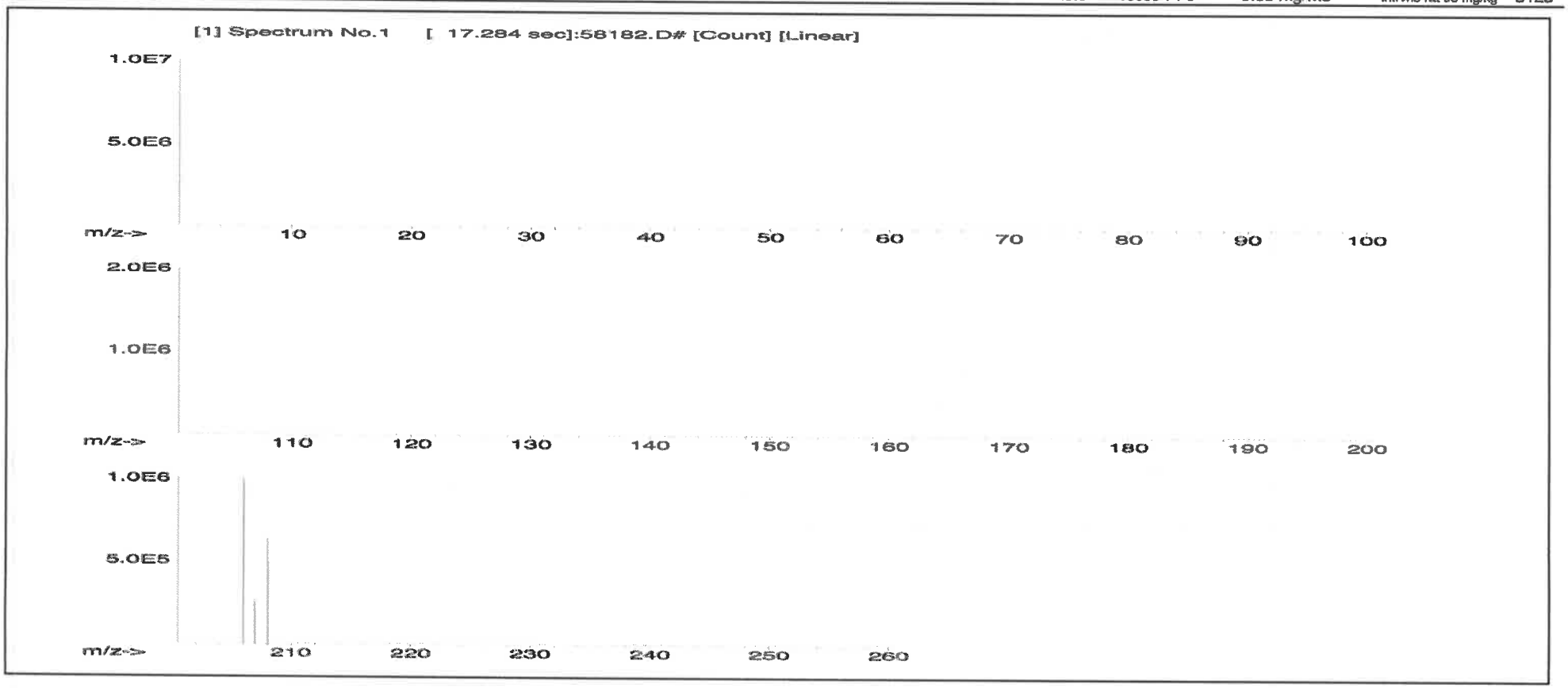
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



570

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

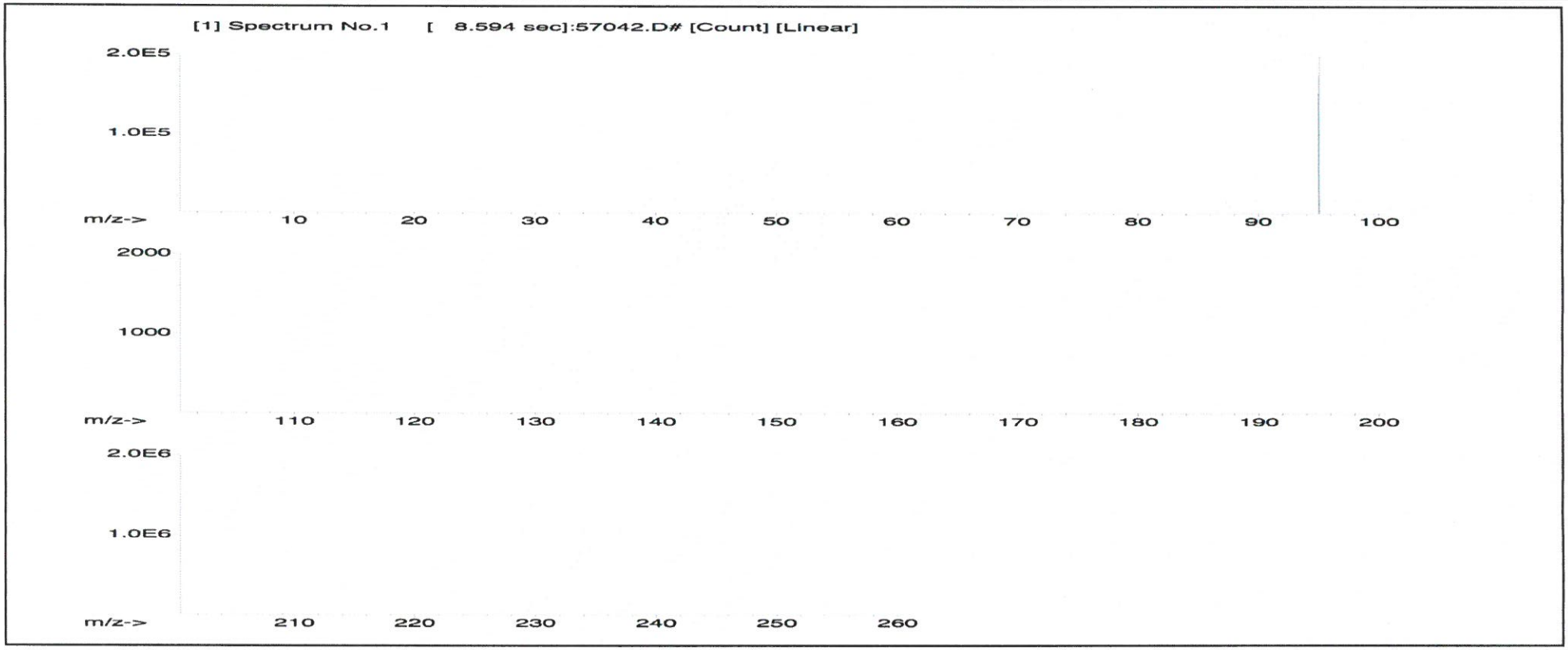
	Lot #	Solvent:		
	MKBQ8597V	Ammonium hydroxide		
	0.5%	15.0 (mL)	Ammonium hydroxide	

Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Volume shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

571

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



572

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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V15200 R: 04/24/22 (BP)

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573

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

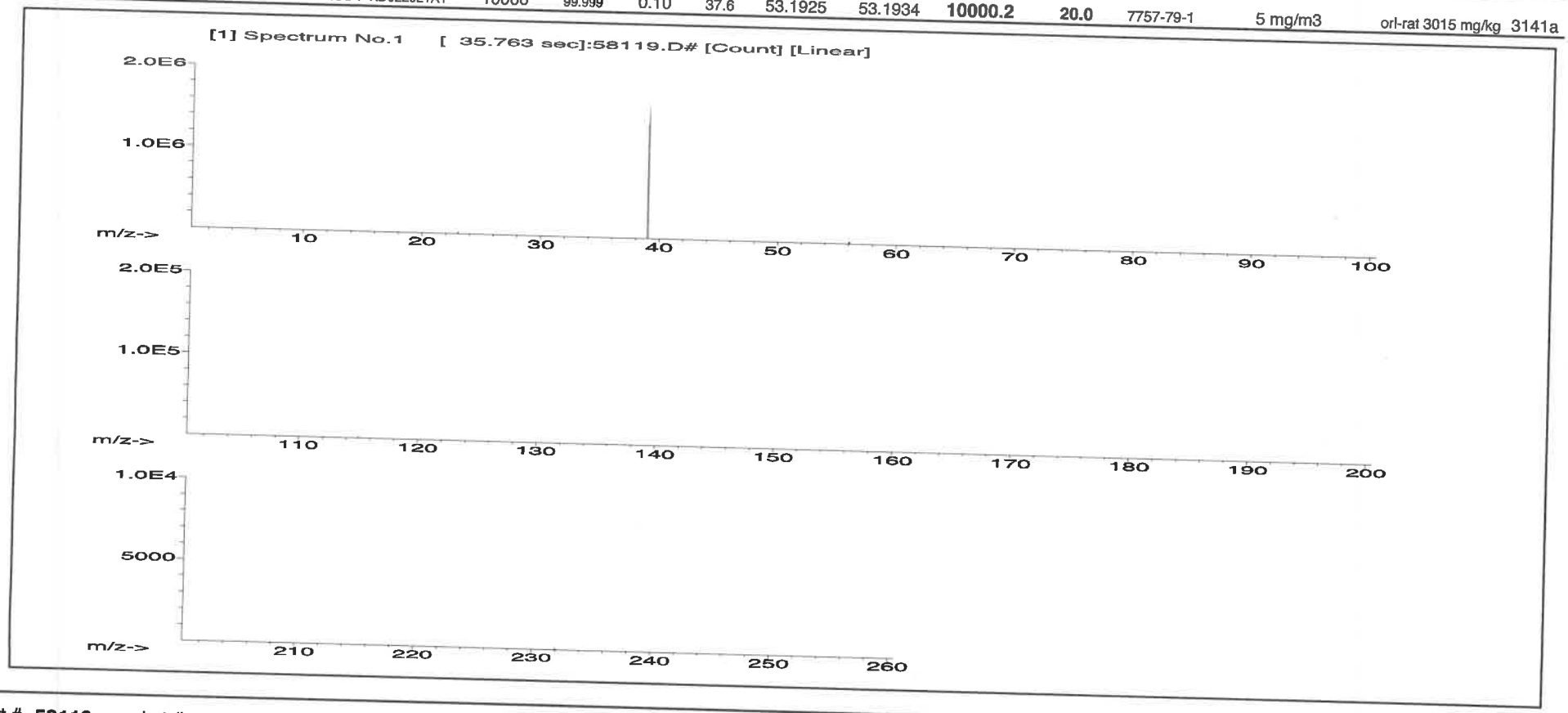
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 071122

Reviewed By: Pedro L. Rentas 071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



574

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5289 R: 07/12/22 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58113
Lot Number: 070622
Description: Aluminum (Al)

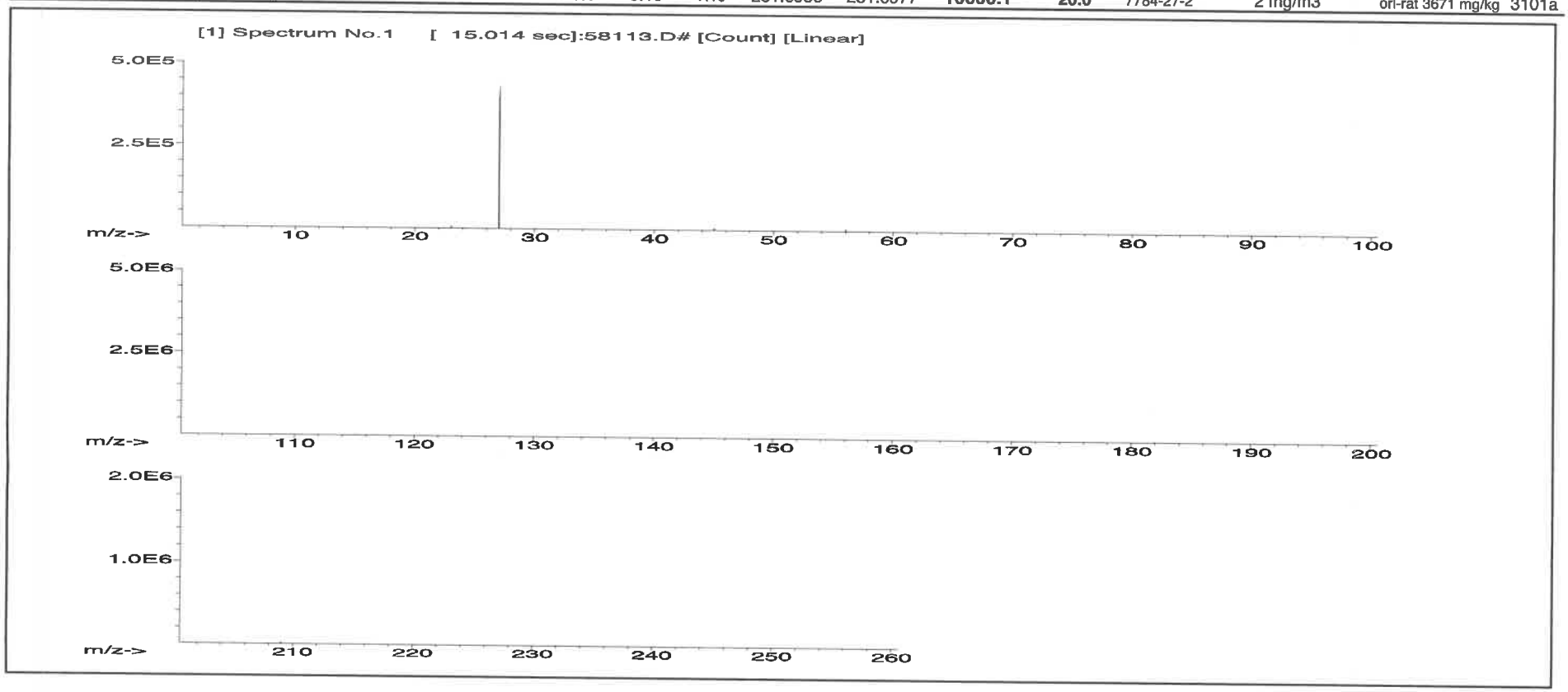
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20370011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

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583

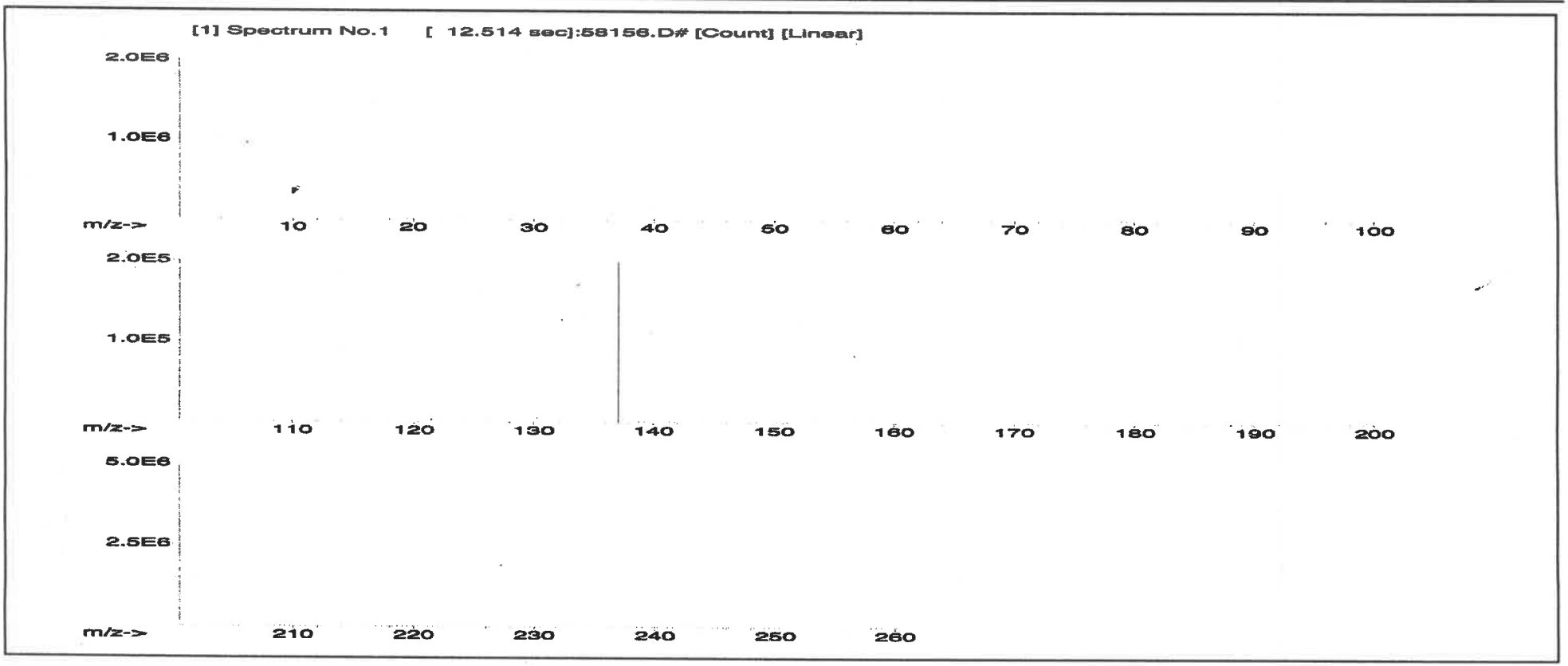
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57056**	**Solvent:**	20510011	Nitric Acid
Lot Number:	**072122**			
Description:	**Barium (Ba)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	072125			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	072122
Reviewed By:	Pedro L. Rentas	072122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82426	**1000.0**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

57056-072122

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Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

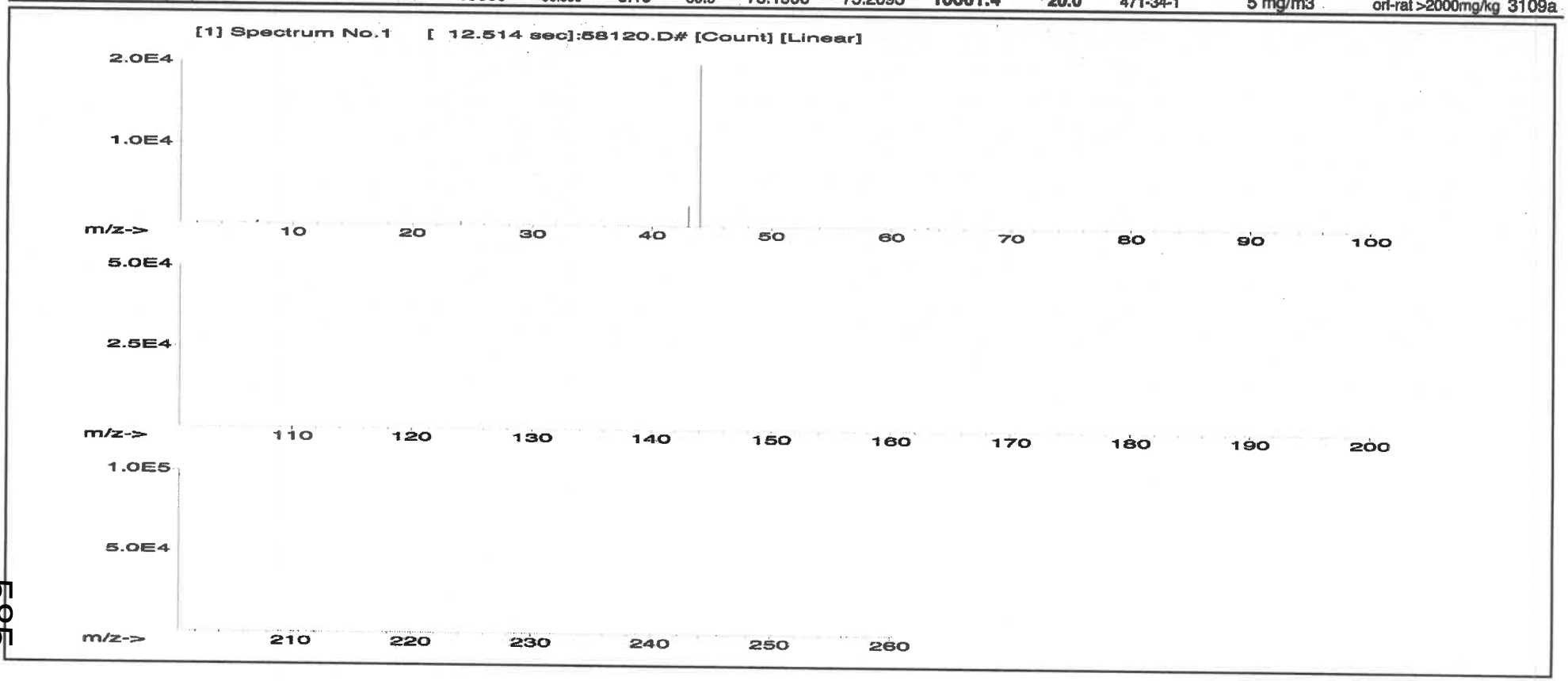
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 031523

Pedro Rentas
Reviewed By: Pedro L. Rentas 031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



585

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	T	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

9851

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Certified Reference Material CRM

MS513 R:03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

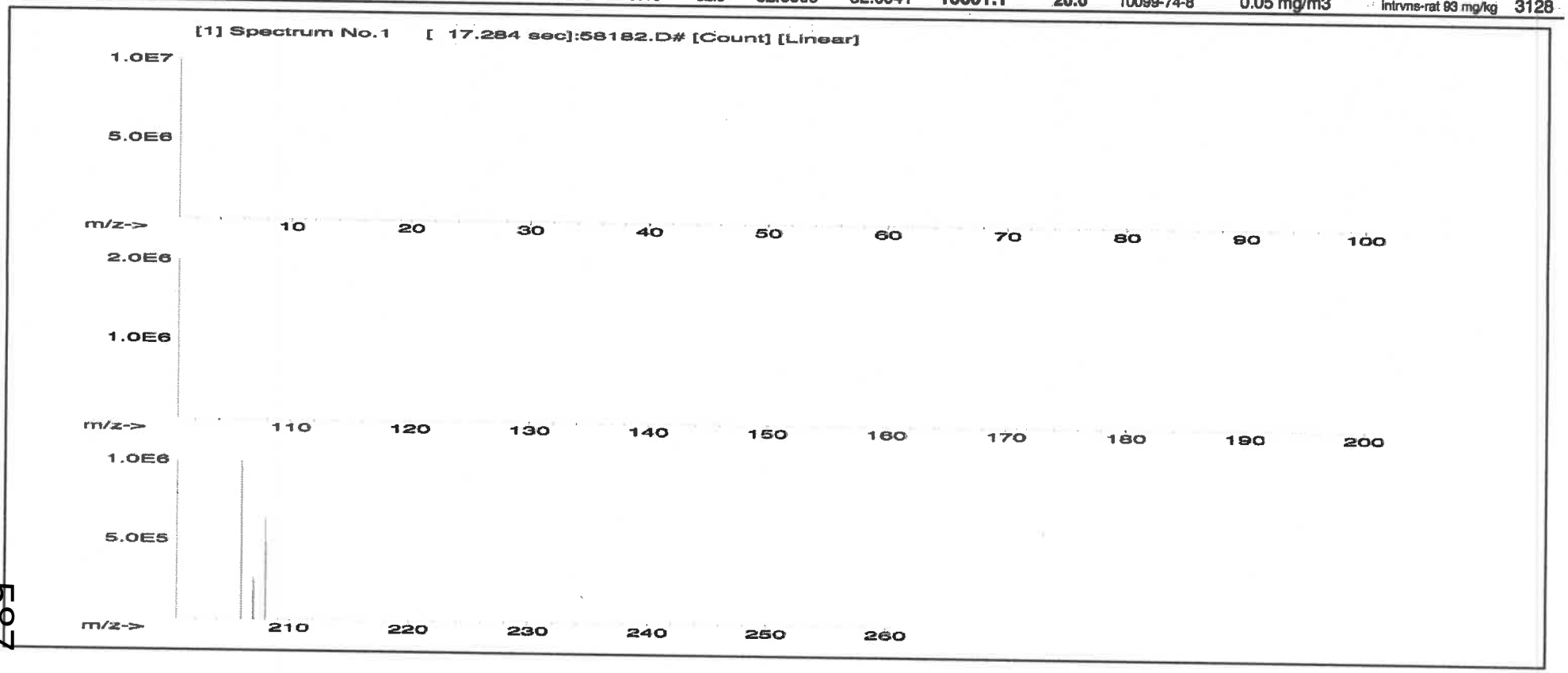
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



587

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5514 - M5515 R: 03/17/22

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 092122
Description: Iron (Fe)

Expiration Date: 092125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

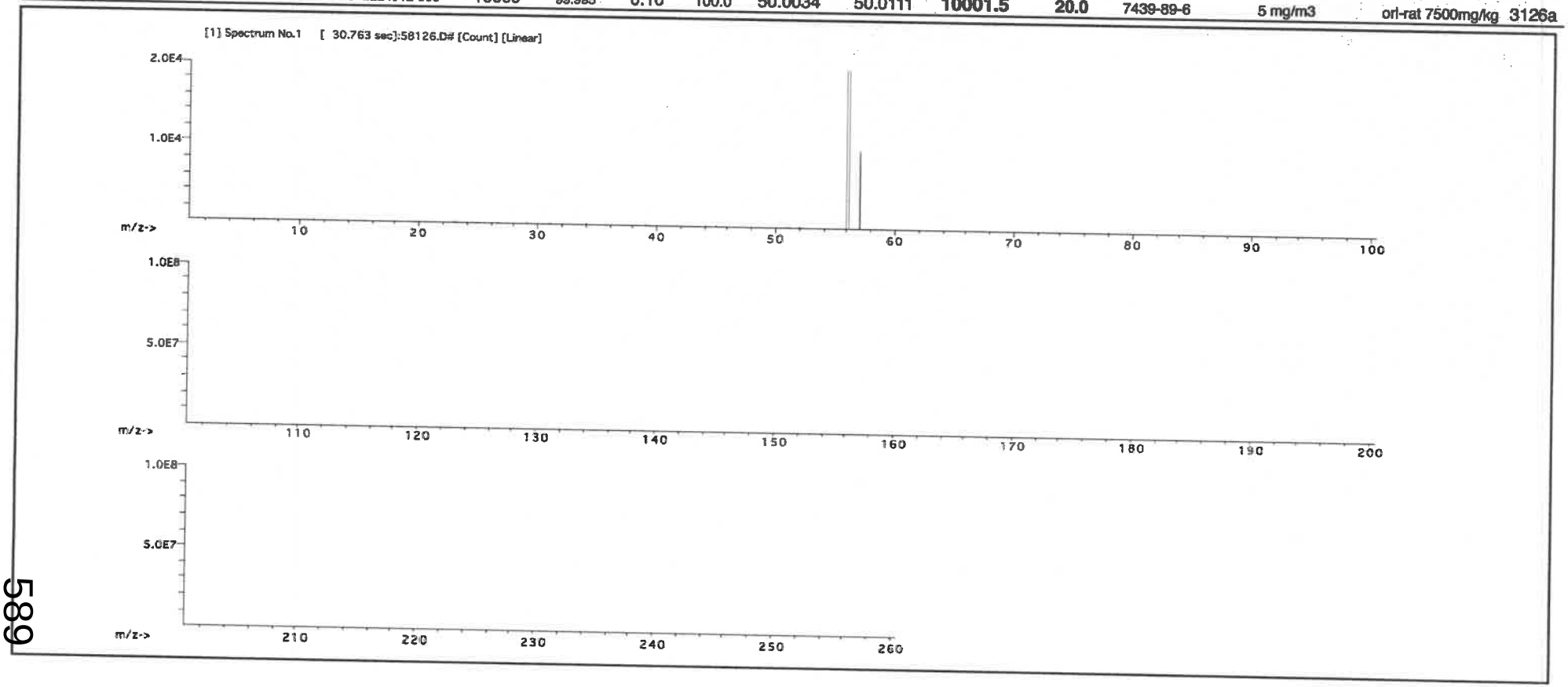
Weight shown below was diluted to (mL): 5000.1 ± 0.12 Flask Uncertainty

	Lot #			
Solvent:	20510011	Nitric Acid		
7.0%	350.0 (mL)	Nitric Acid	± 5E-05	Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092122
Reviewed By:	Pedro L. Rentas	092122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2224912-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



586

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.05
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

590

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Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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591

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

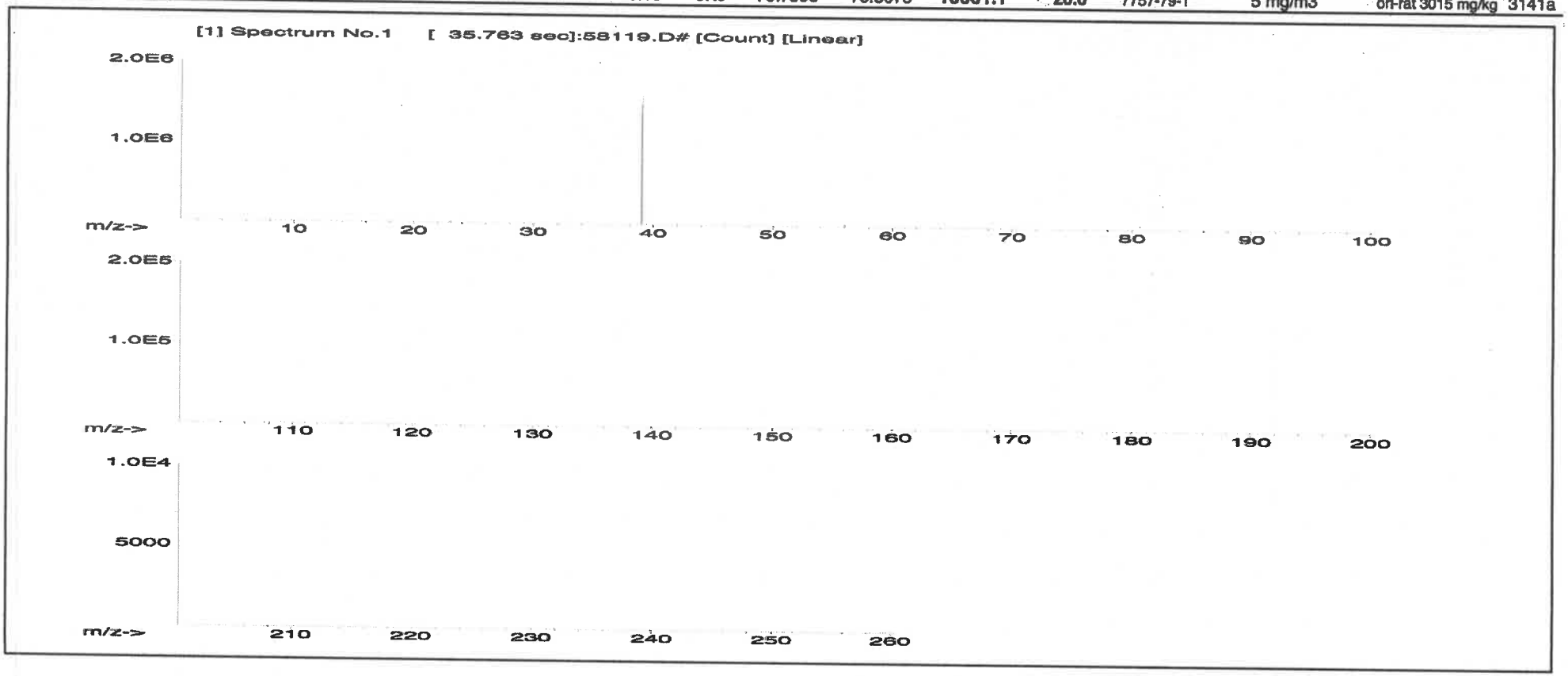
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 120822

Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



592

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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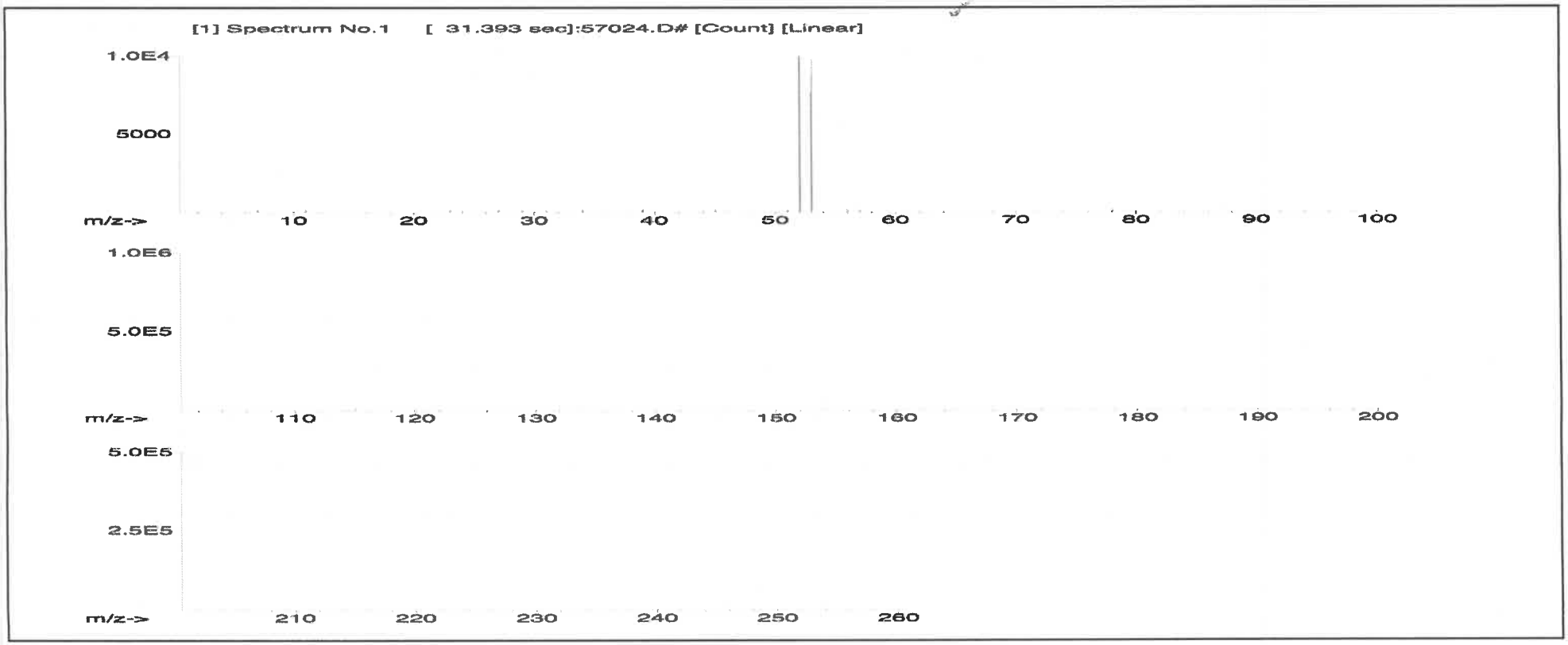
593

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



594

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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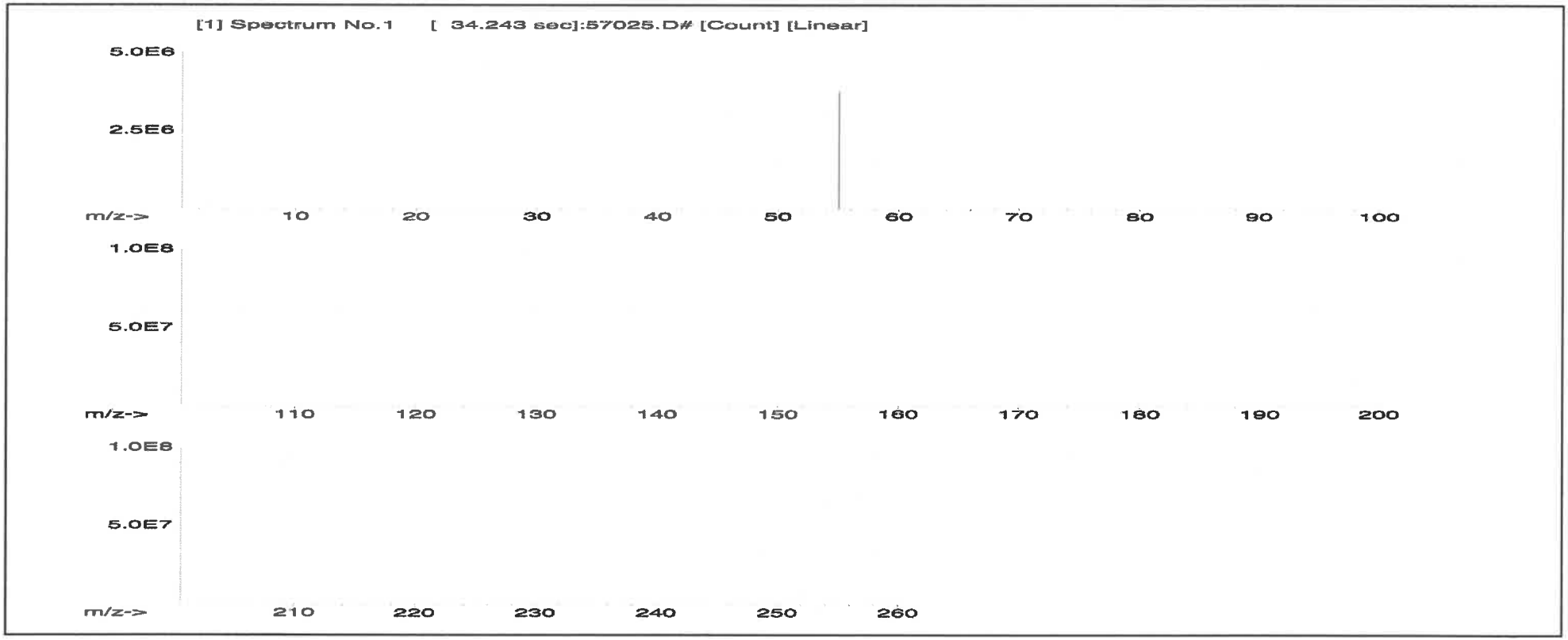
595

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58025**	24002546	Nitric Acid	
Lot Number:	**102623**			
Description:	**Manganese (Mn)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	102626			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102623
Reviewed By:	Pedro L. Rentas	102623

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.1000	300.0	0.084	1000	10000.1	**1000.0**	**2.1**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132



596

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
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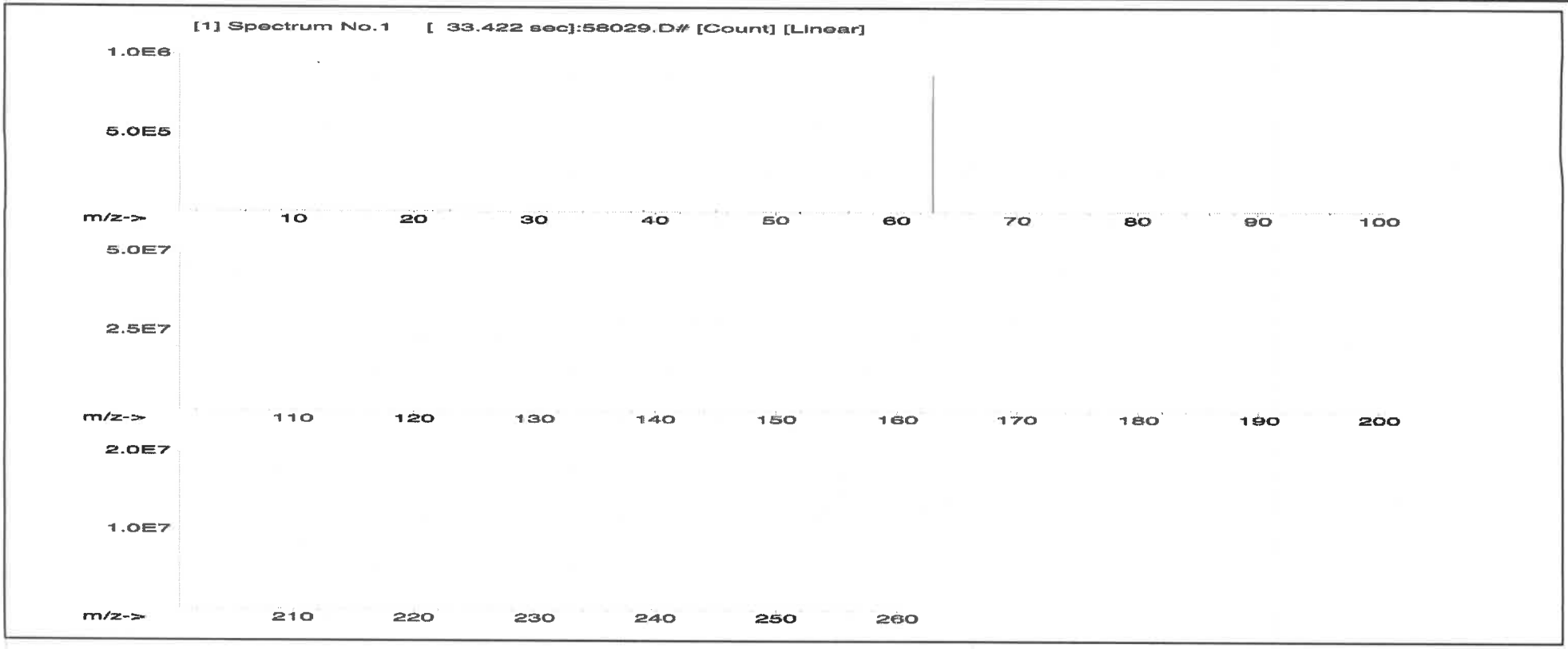
597

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	21110221	Nitric Acid	
Lot Number:	**071723**			
Description:	**Copper (Cu)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071723
Reviewed By:	Pedro L. Rentas	071723

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	022723	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



598

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5768 M5769 (BP) R:1/3/24

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599

CERTIFIED WEIGHT REPORT:

Part Number: 58112
Lot Number: 091823
Description: Magnesium (Mg)

Expiration Date: 091826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

		Lot #		
Solvent:	24002546	Nitric Acid		
2%	40.0 (mL)	Nitric Acid		

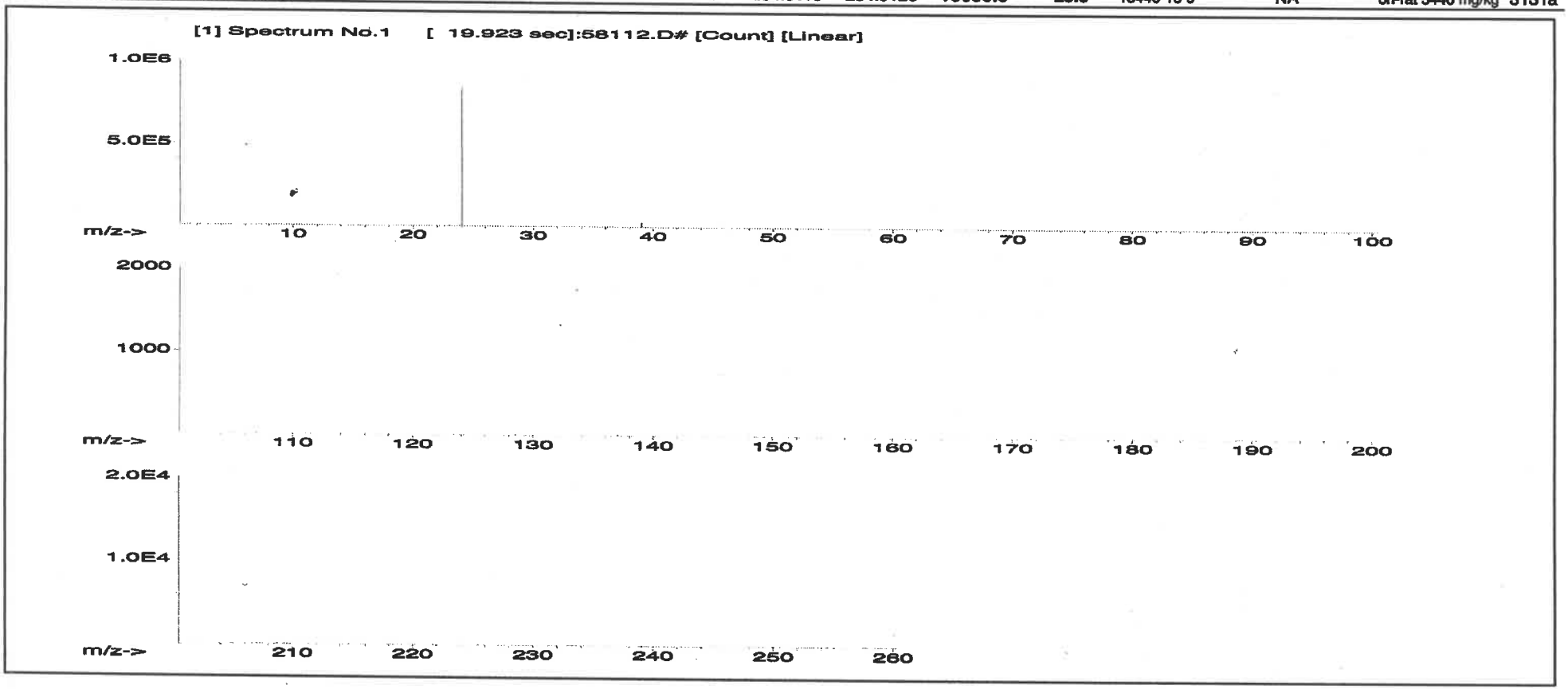
5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



600

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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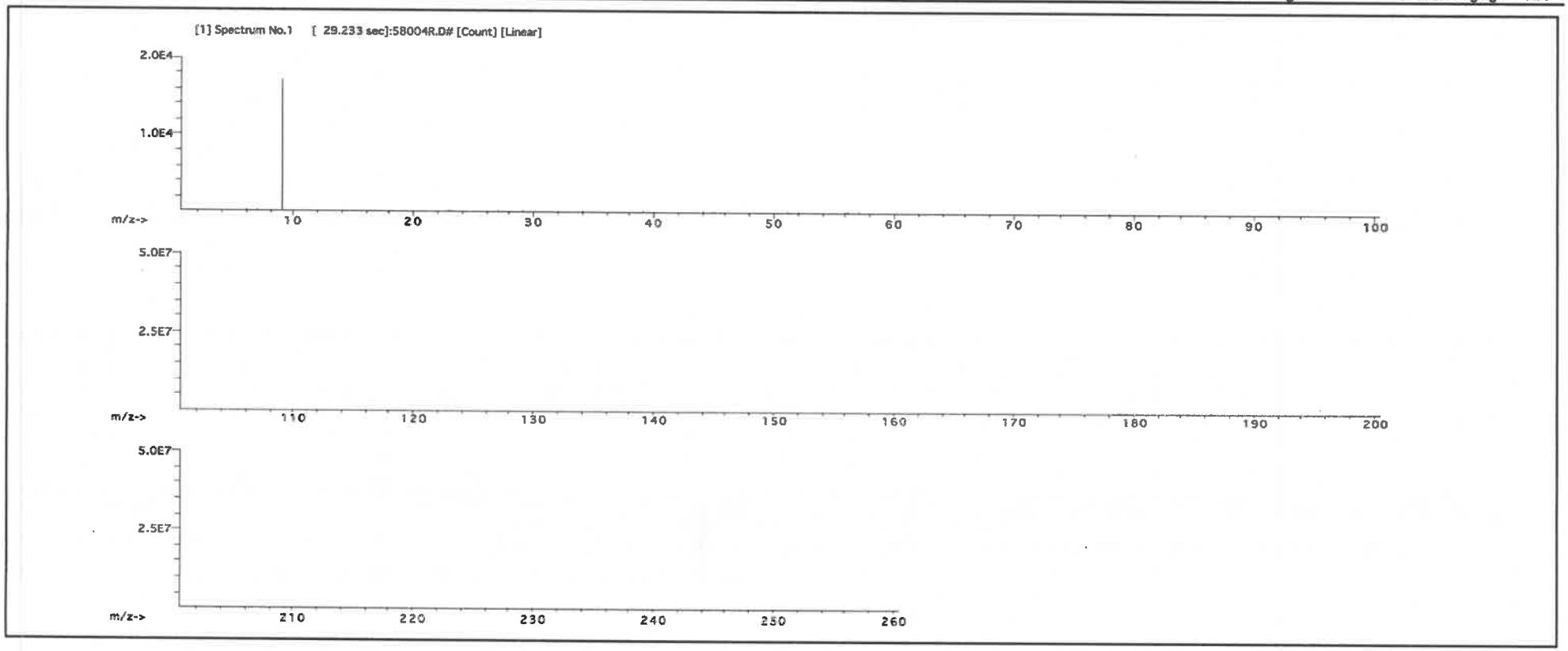
601

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57004**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R? 02/09/24 IM5799 BA

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603

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

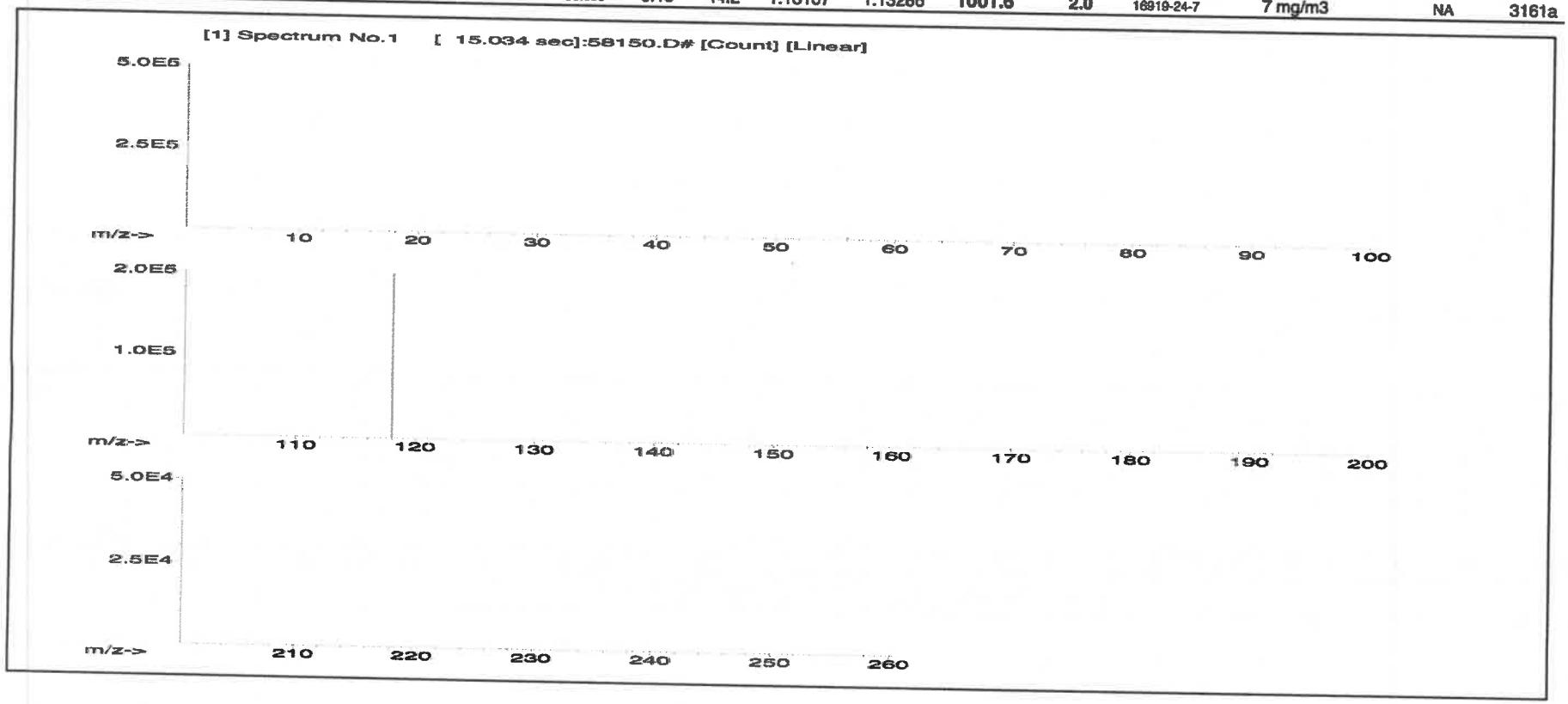
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



604

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 IM5800 (BH)

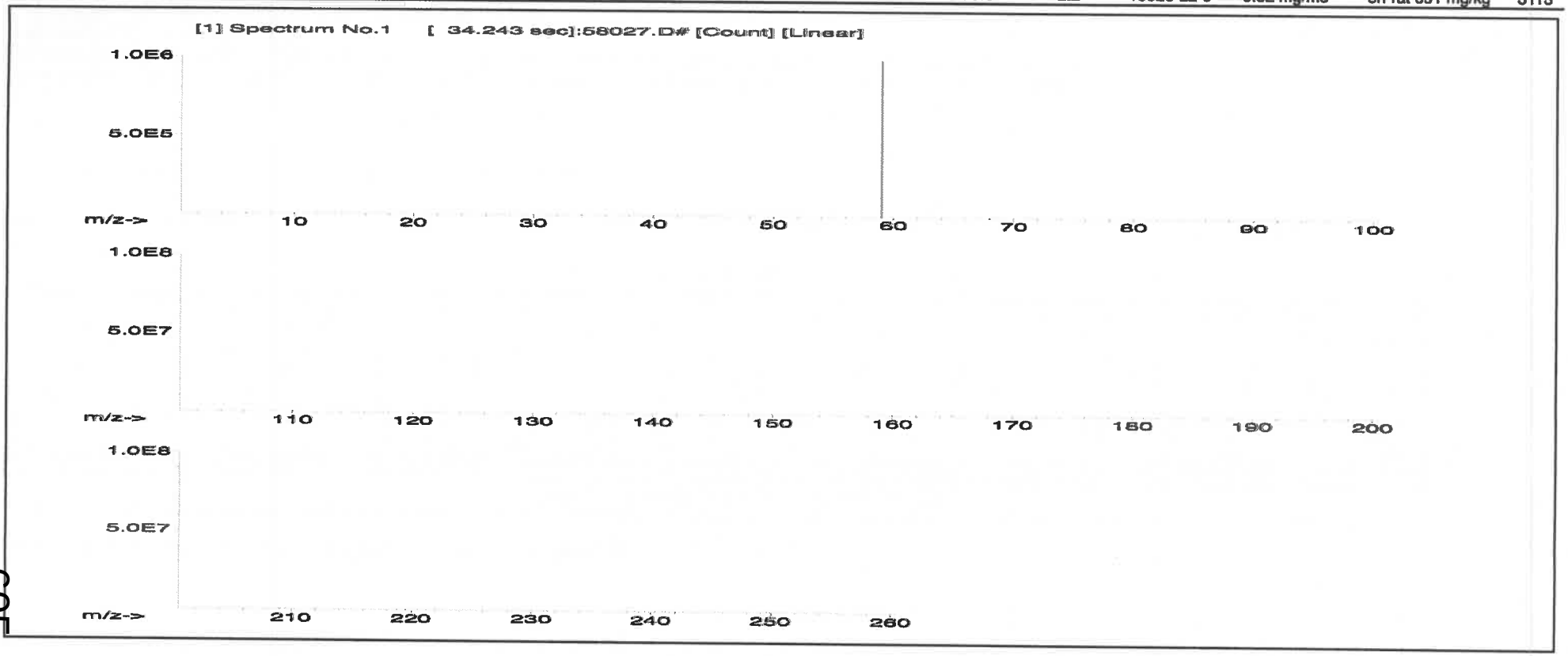
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	**2.2**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



605

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

909

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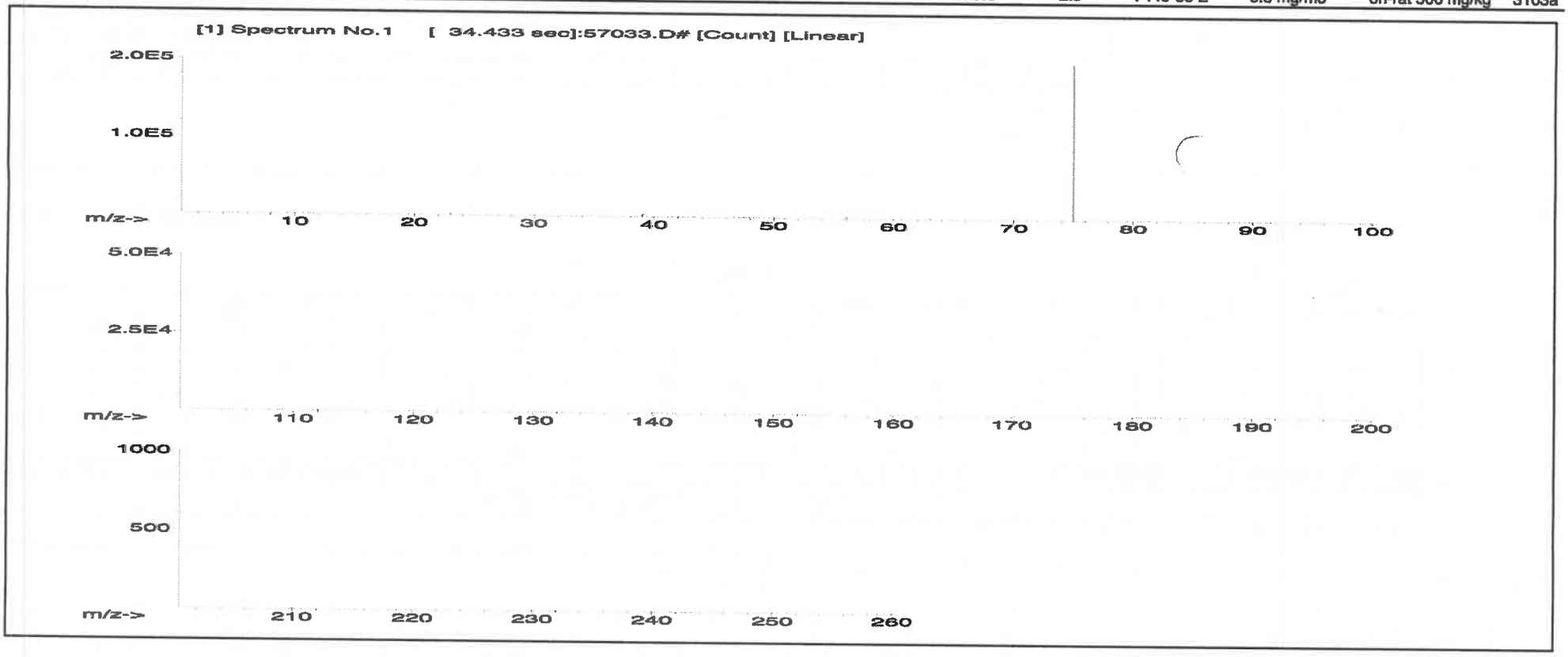
607

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



809

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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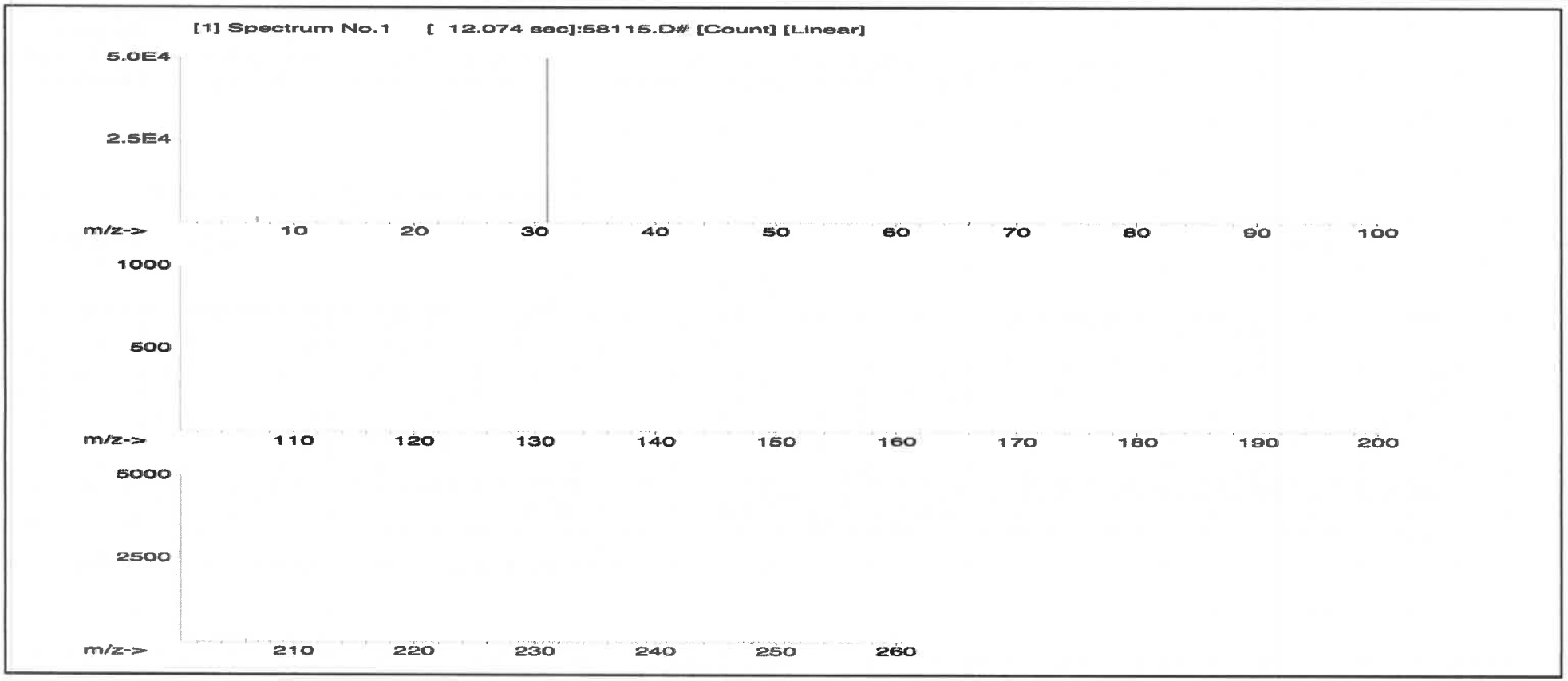
609

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



610

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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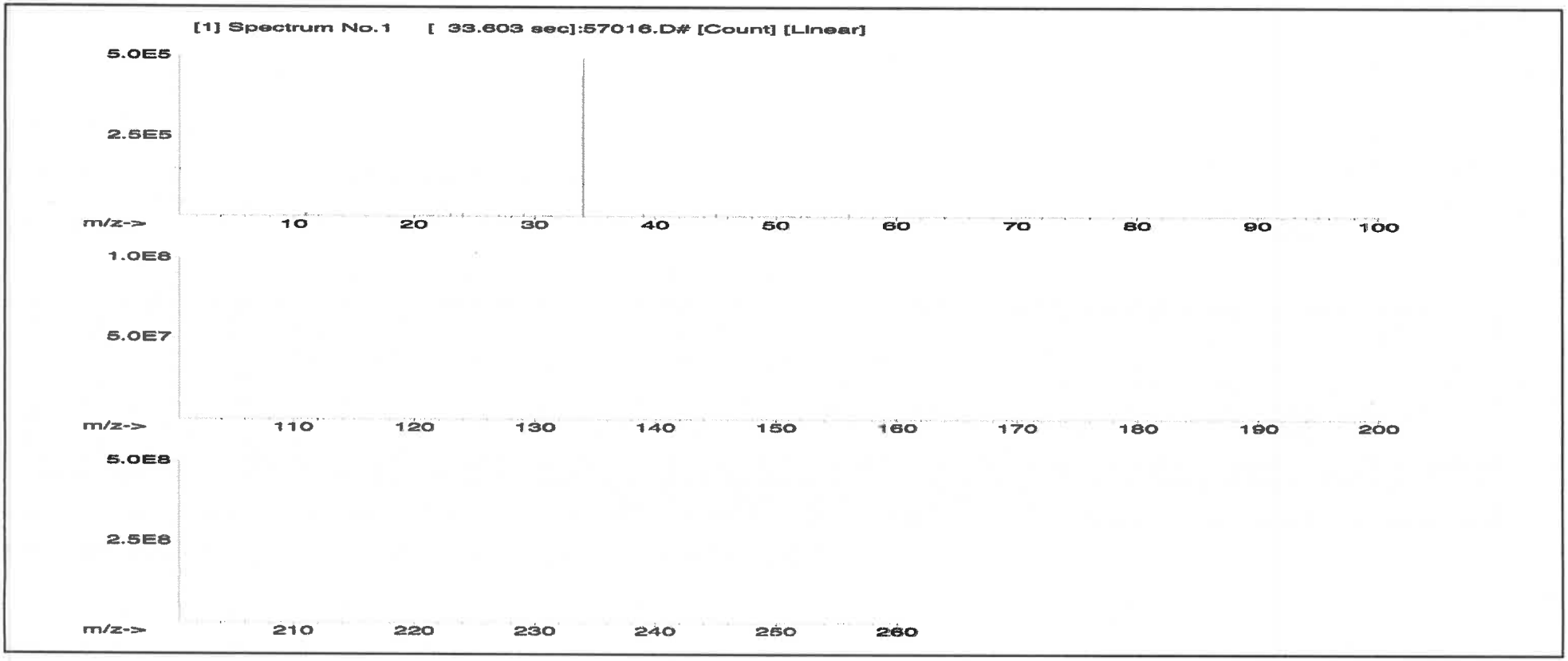
611

CERTIFIED WEIGHT REPORT:

Part Number:	**57016**	**Solvent:**	**Lot #** 122923	ASTM Type 1 Water
Lot Number:	**122923**			
Description:	**Sulfur (S)**			
Expiration Date:	122926			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty	

Formulated By:	Benson Chan	122923
Reviewed By:	Pedro L. Rentas	122923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	1000	99.9	0.10	24.3	16.4979	16.4980	**1000.0**	**2.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



612

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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R: 02/09/24 M5817

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613

CERTIFIED WEIGHT REPORT:

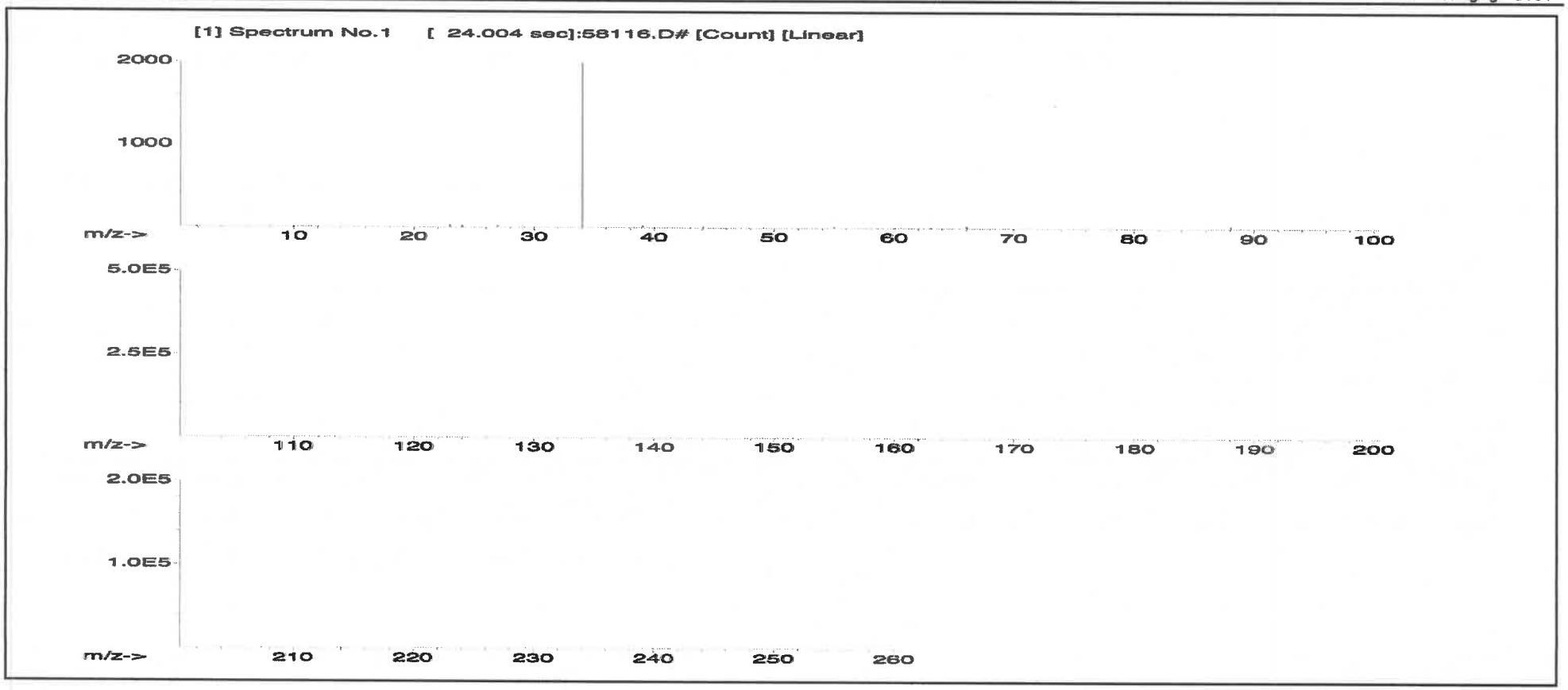
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



614

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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615

CERTIFIED WEIGHT REPORT:

Part Number: 57014
Lot Number: 122023
Description: Silicon (Si)

Expiration Date: 122026
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Solvent: 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

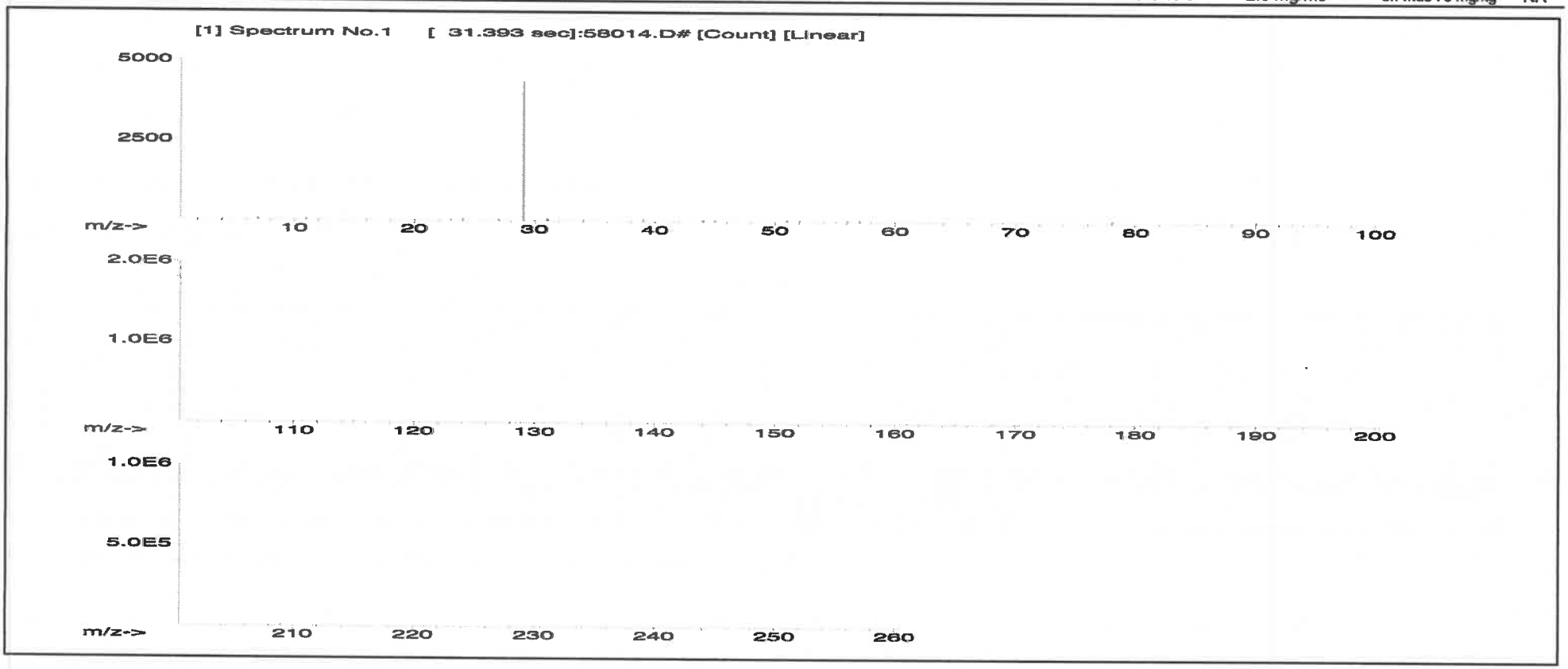
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorosilicate (Si)	IN009	SID082022A1	1000	99.999	0.10	14.4	13.8854	13.8855	**1000.0**	**2.0**	16919-19-0	2.5 mg/m3	orl-mus 70 mg/kg	NA



616

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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617

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

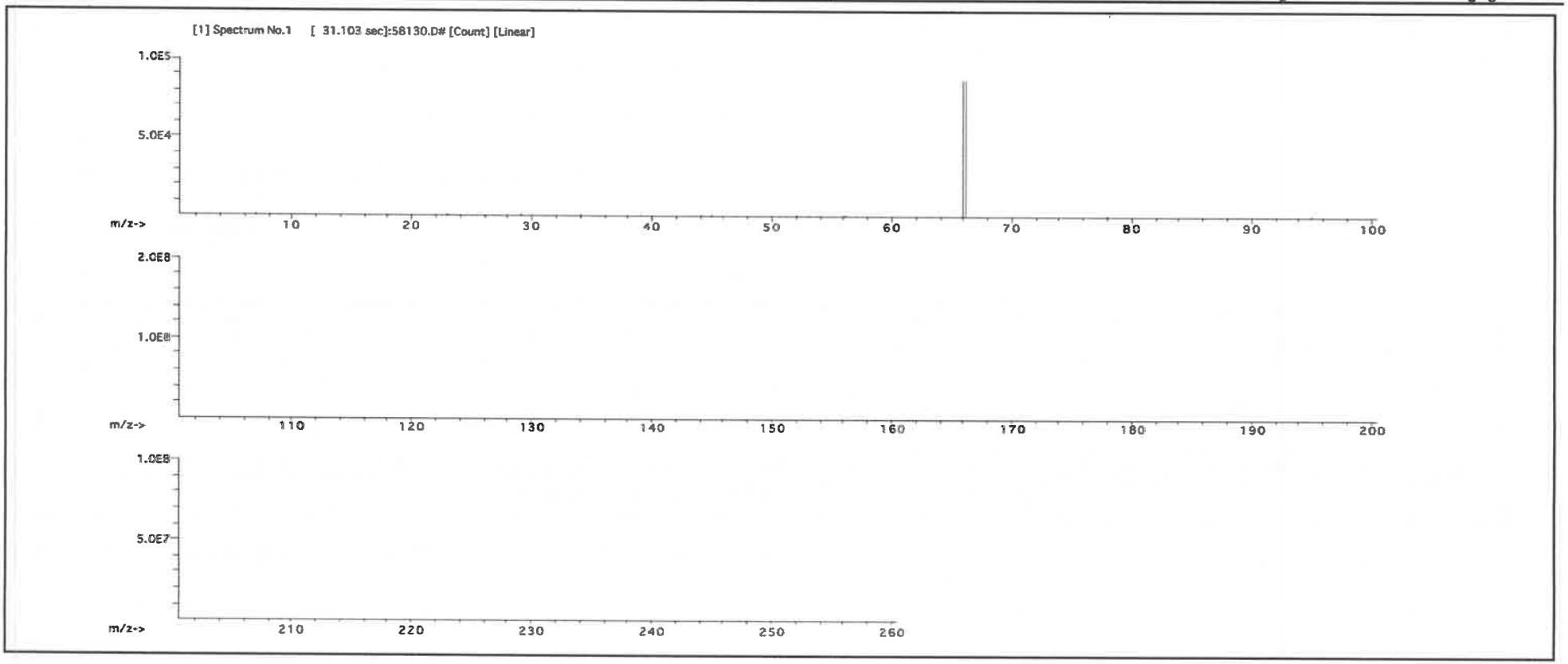
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
	2%	60.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	111623
Reviewed By:	Pedro L. Rentas	111623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	12.3475	12.3502	**1000.2**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



618

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	T
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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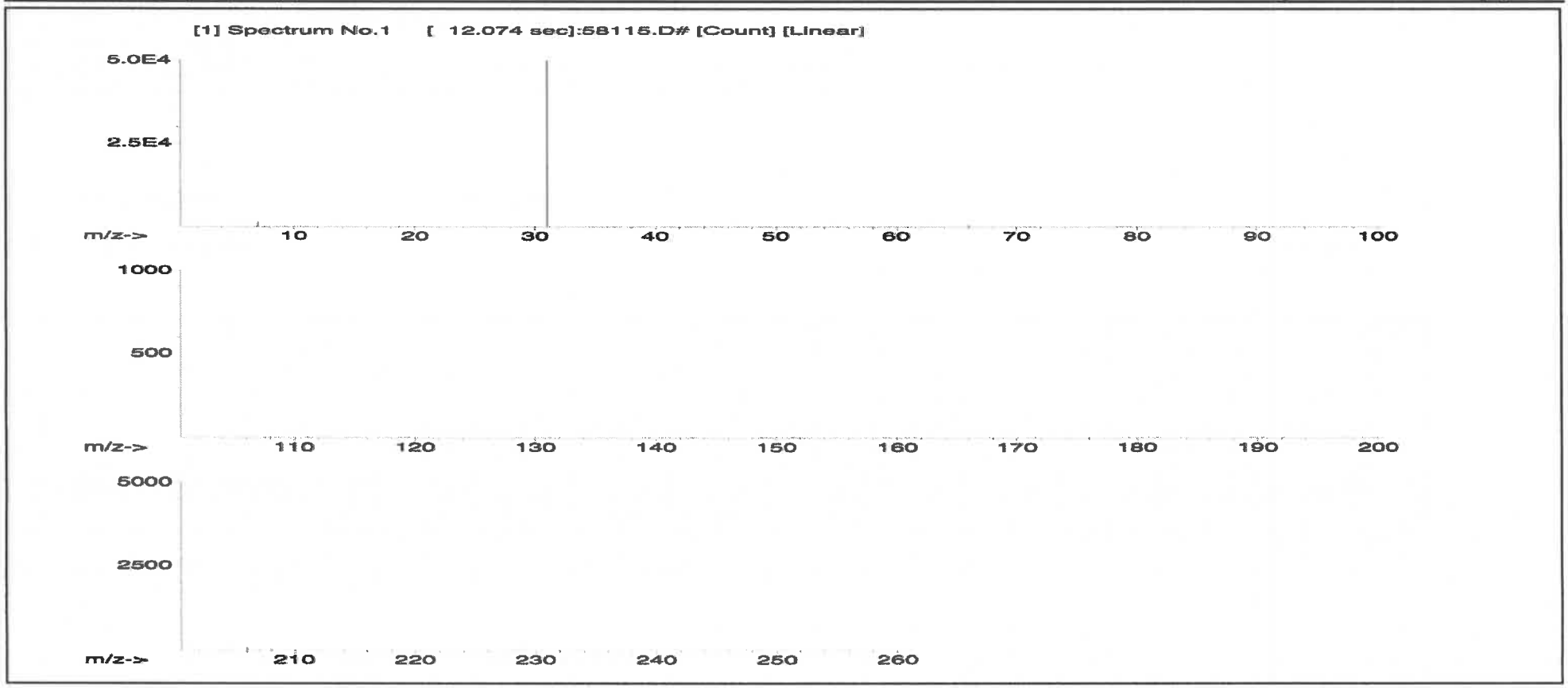
619

CERTIFIED WEIGHT REPORT:

Part Number:	**57015**		**Lot #**		
Lot Number:	**091123**	**Solvent:**	24002546	Nitric Acid	
Description:	**Phosphorous (P)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	091126				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091123
Reviewed By:	Pedro L. Rentas	091123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	1000	99.999	0.10	27.5	7.2729	7.2730	**1000.0**	**2.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/k	3186



620

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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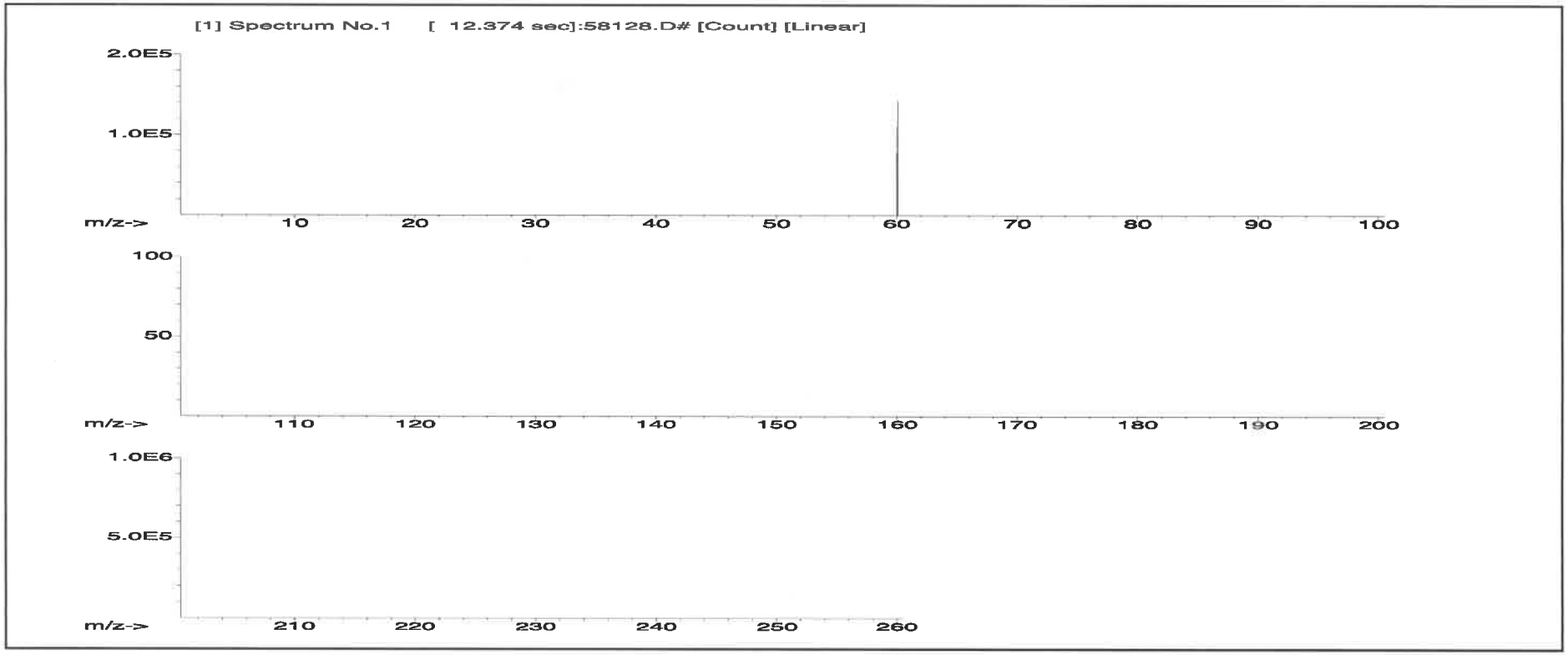
621

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**57028**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**041124**			
Description:	**Nickel (Ni)**			
		2%	5.0 (mL)	Nitric Acid
Expiration Date:	041127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	249.85	0.002	Flask Uncertainty	

Formulated By:	Brian Geddes	041124
Reviewed By:	Pedro L. Rentas	041124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Nickel(II) nitrate hexahydrate (Ni)	IN033	NIM052023A1	1000	99.999	0.10	20.2	1.2369	1.2369	**1000.0**	**2.0**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



622

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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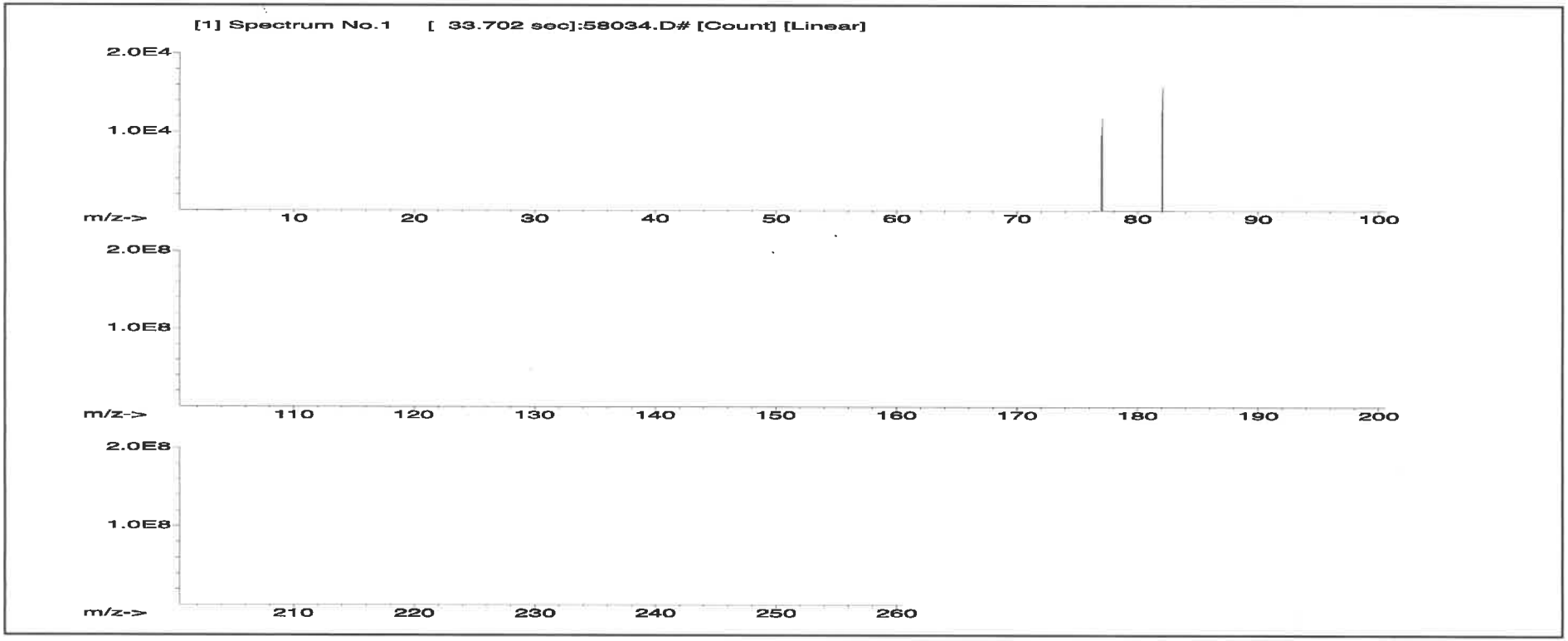
623

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



624

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M5978, M5979

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\,(u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57092**	24002546	Nitric Acid		
Lot Number:	**060724**				
Description:	**Uranium (U)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	060727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

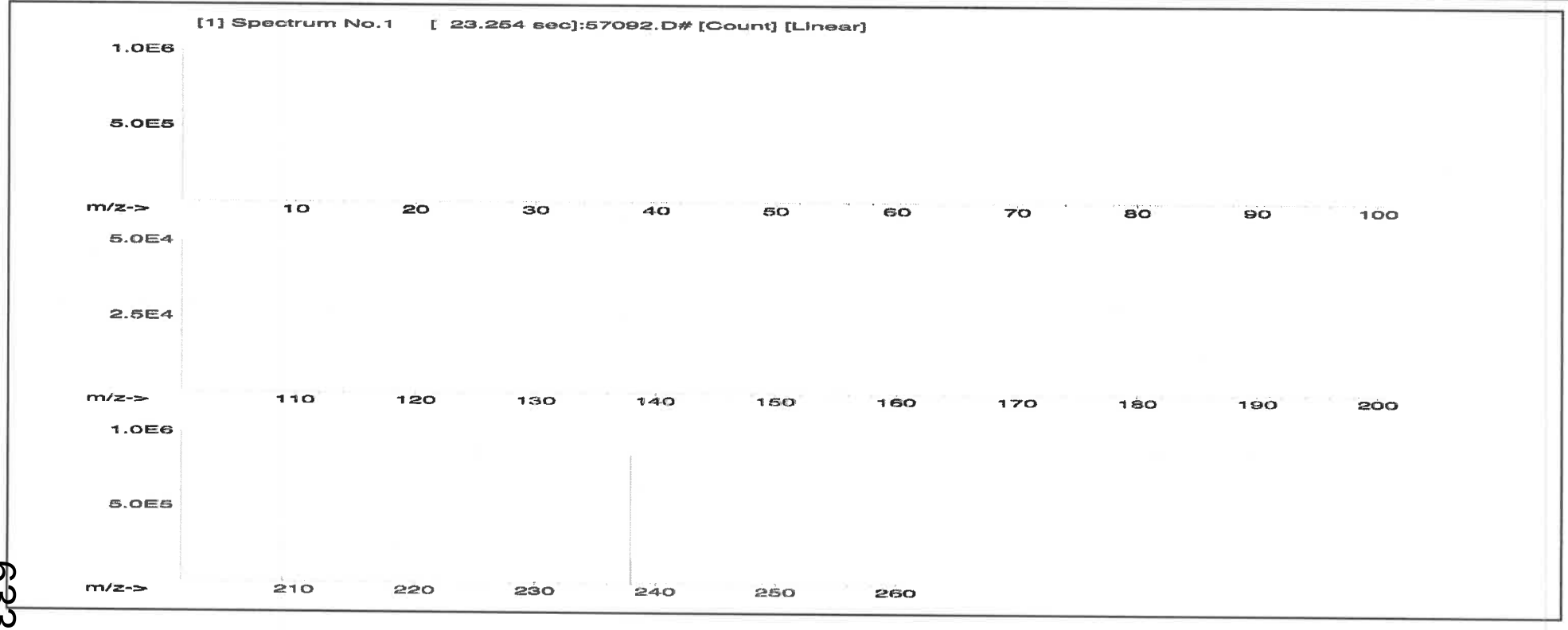
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

45982 R: 6/11/24

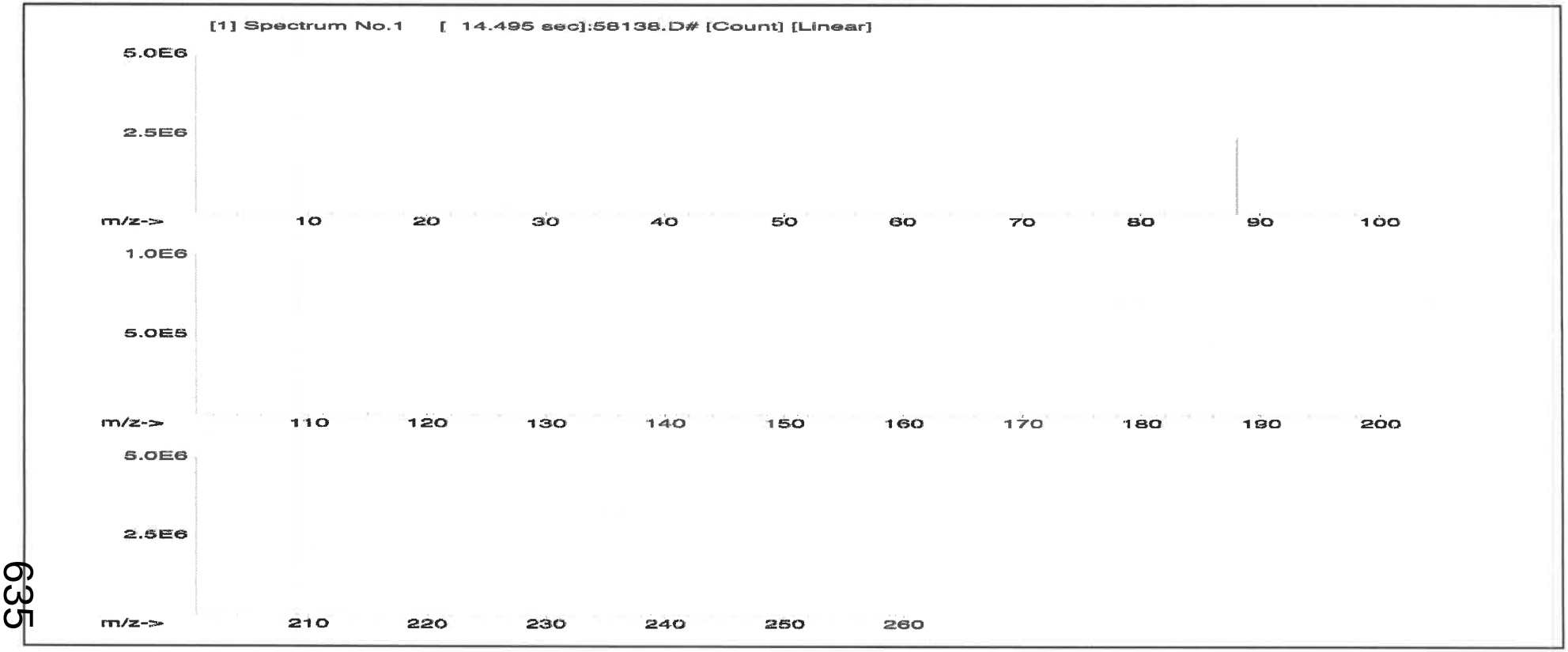
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**57038**		**Lot #**		
Lot Number:	**031524**	**Solvent:**	24002546	Nitric Acid	
Description:	**Strontium (Sr)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	031527				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

Formulated By:	Benson Chan	031524
Reviewed By:	Pedro L. Rentas	031524

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	1000	99.997	0.10	41.2	4.85470	4.85502	**1000.1**	**2.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M5983 R: 6/11/24

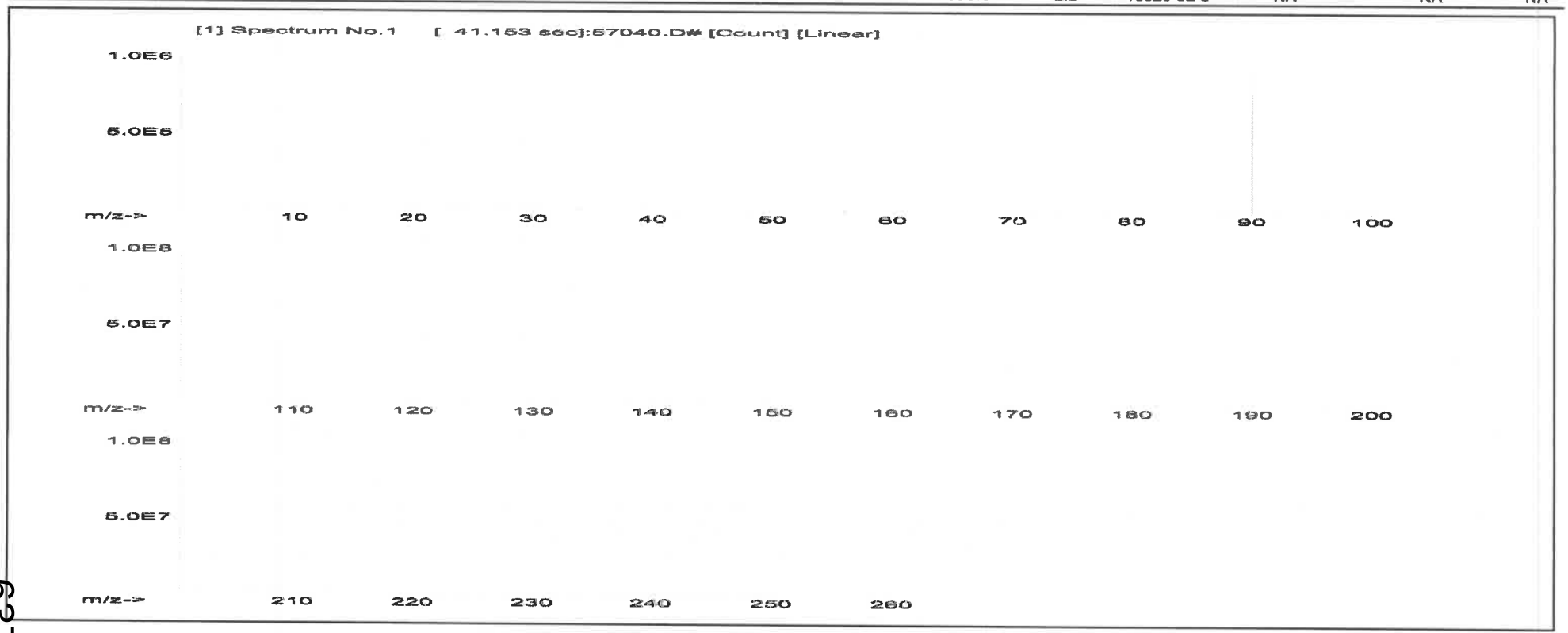
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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	T

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5999

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

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ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)\,(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
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Certified Reference Material CRM

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**011623**		**Solvent:**	20510011	Nitric Acid
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	011626				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

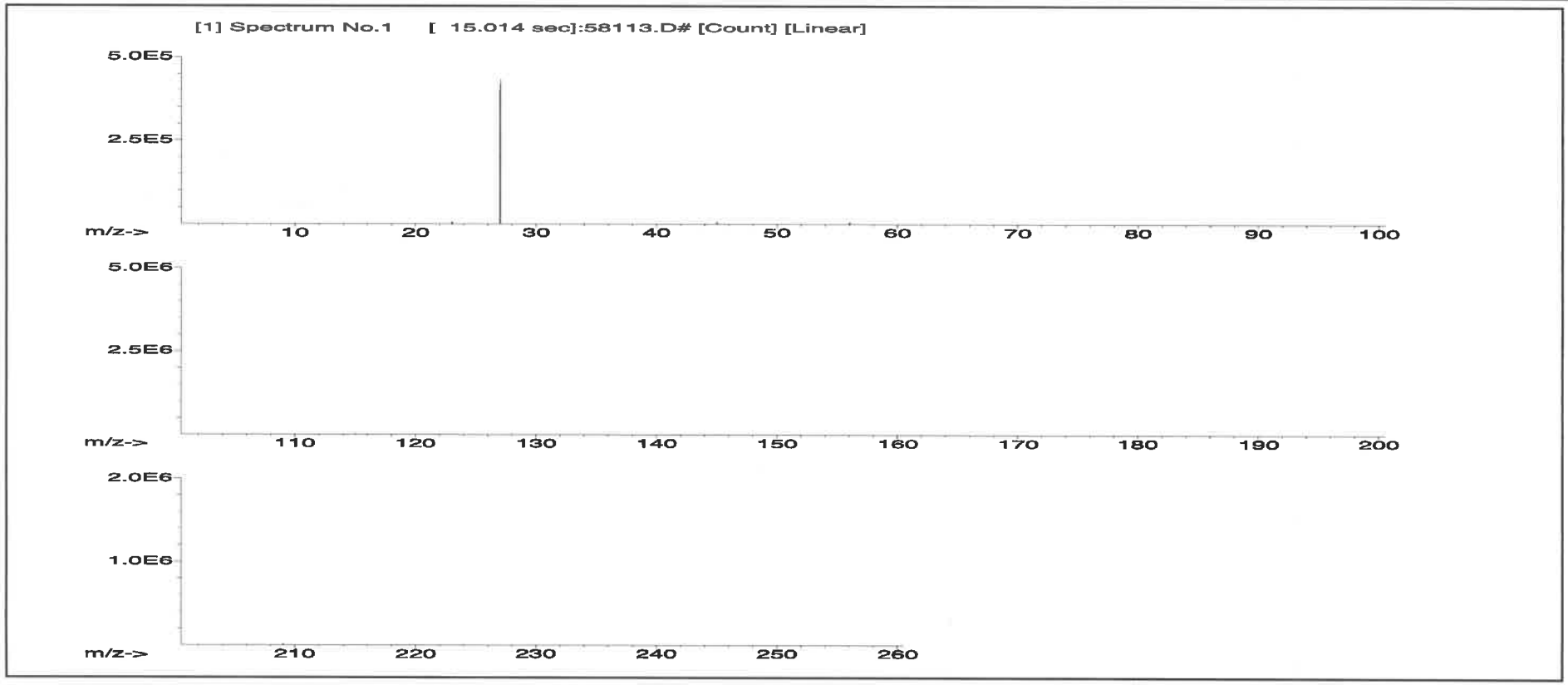
Giovanni Esposito

Formulated By:	Giovanni Esposito	011623

Pedro Rentas

Reviewed By:	Pedro L. Rentas	011623

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALM112021A1	10000	99.999	0.10	7.30	273.9779	274.0078	**10001.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6 %
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

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Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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Certificate of Analysis

R 8/19/24, M60055

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.192
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 24D1562005

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58111**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**122223**			
Description:	**Sodium (Na)**	2%	60.0 (mL)	Nitric Acid
Expiration Date:	122226			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	3000.4	0.06	Flask Uncertainty	

Aleah O'Brady

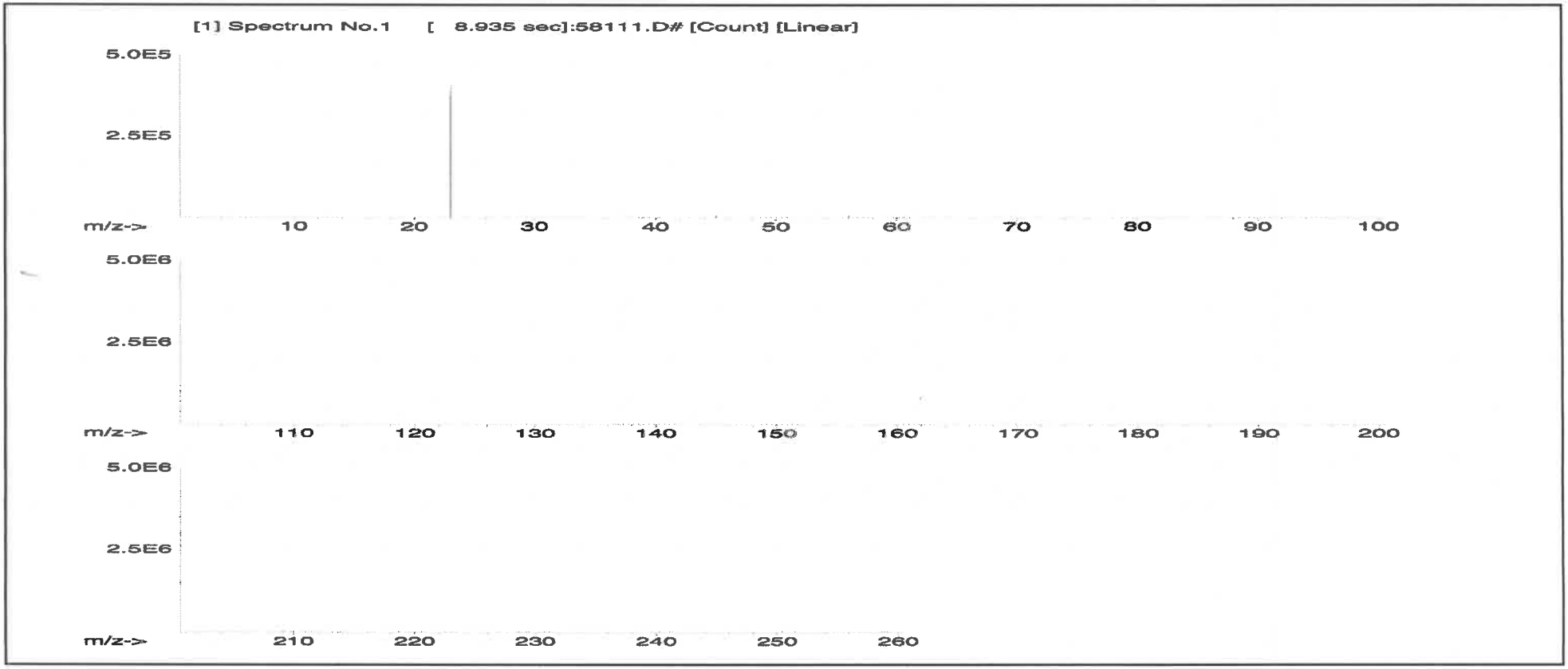
Formulated By:	Aleah O'Brady	122223

Pedro Rentas

Reviewed By:	Pedro L. Rentas	122223

099

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium nitrate (Na)	IN036	NAV012015I1	10000	99.999	0.10	26.9	111.5406	111.5479	**10000.7**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



661

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	T	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™

Refine your results. Redefine your industry.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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2700 Chandler Avenue - Building C
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This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 01/03/24 M5802, M5803

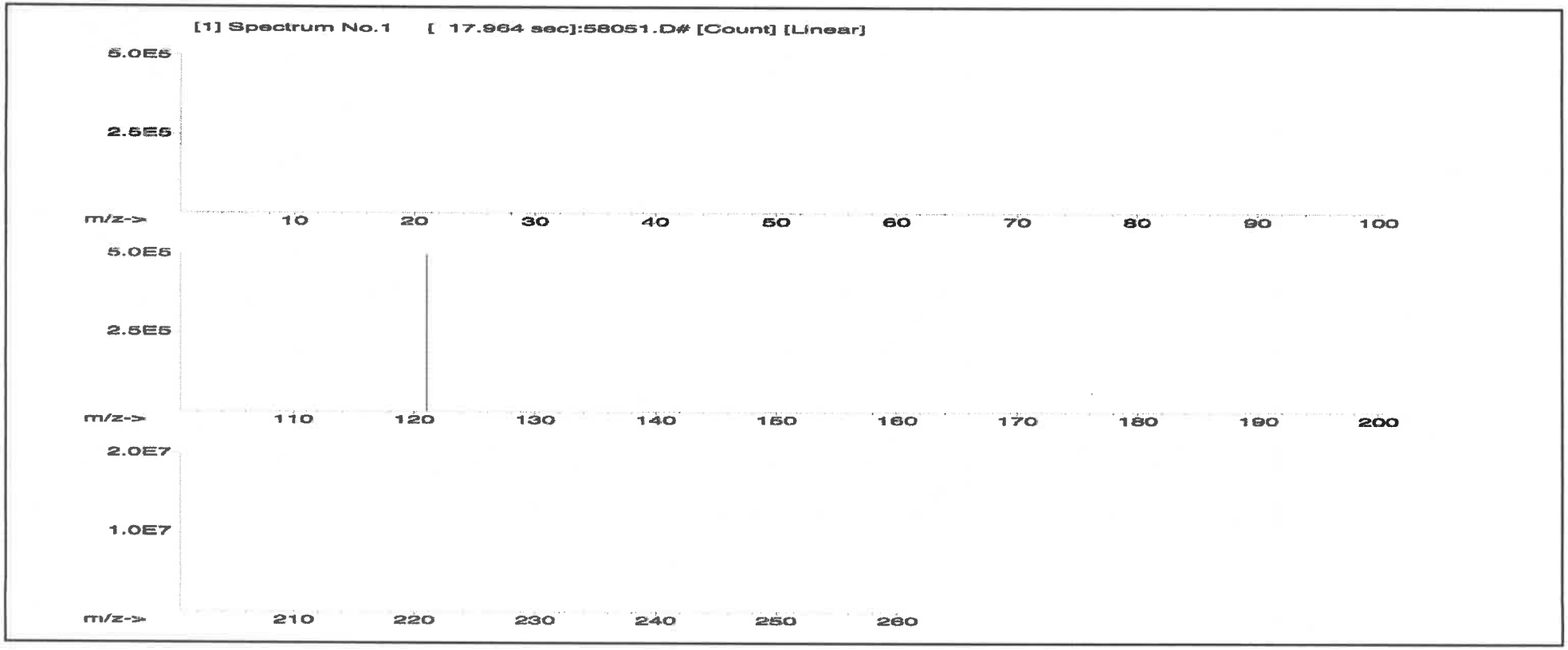
670

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	24002546	Nitric Acid	
Lot Number:	**120523**			
Description:	**Antimony (Sb)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	120526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	3000.41	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	120523
Reviewed By:	Pedro L. Rentas	120523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Antimony (Sb)	58151	100923	0.1000	300.0	0.084	1000	10001.4	**1000.0**	2.1	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

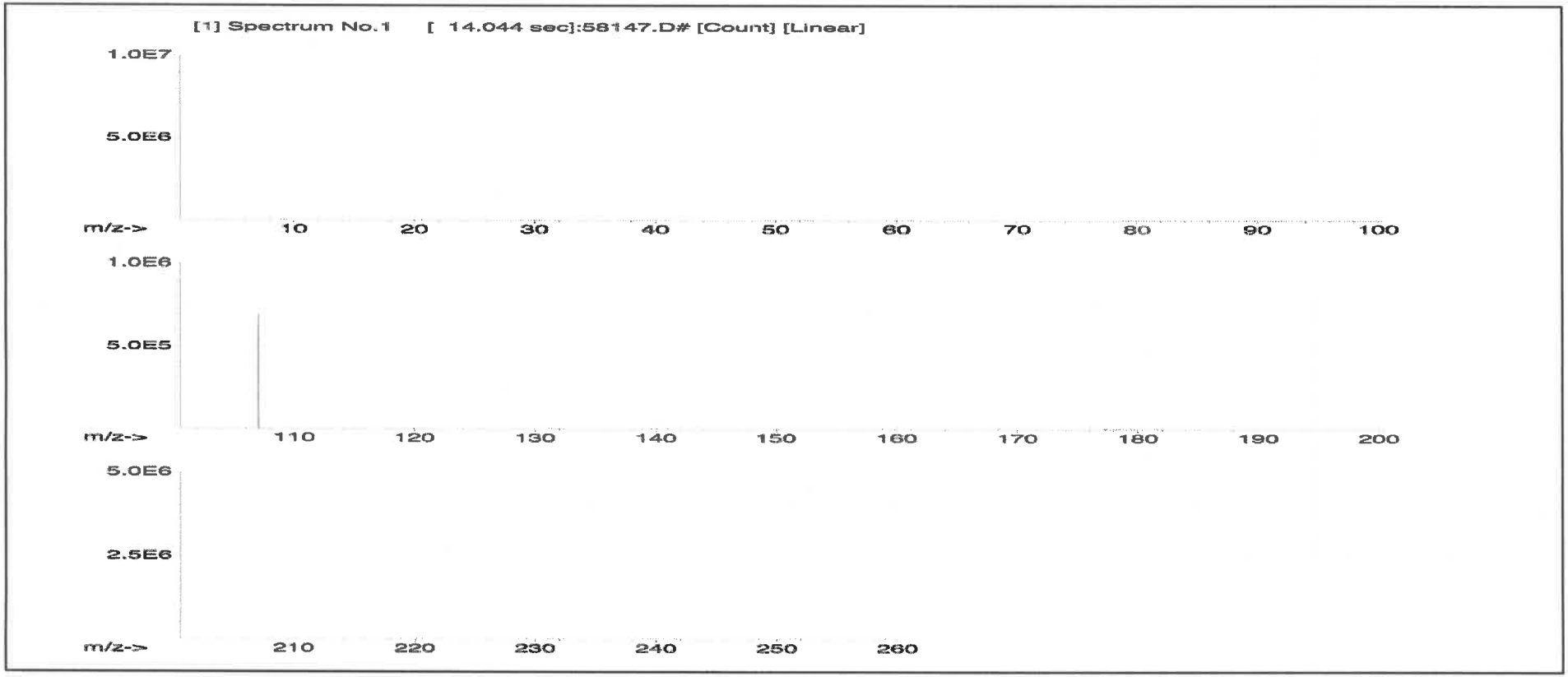
Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 4000.30 5E-05 Balance Uncertainty 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

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AR-1539 Certificate Number
https://Absolutestandards.com

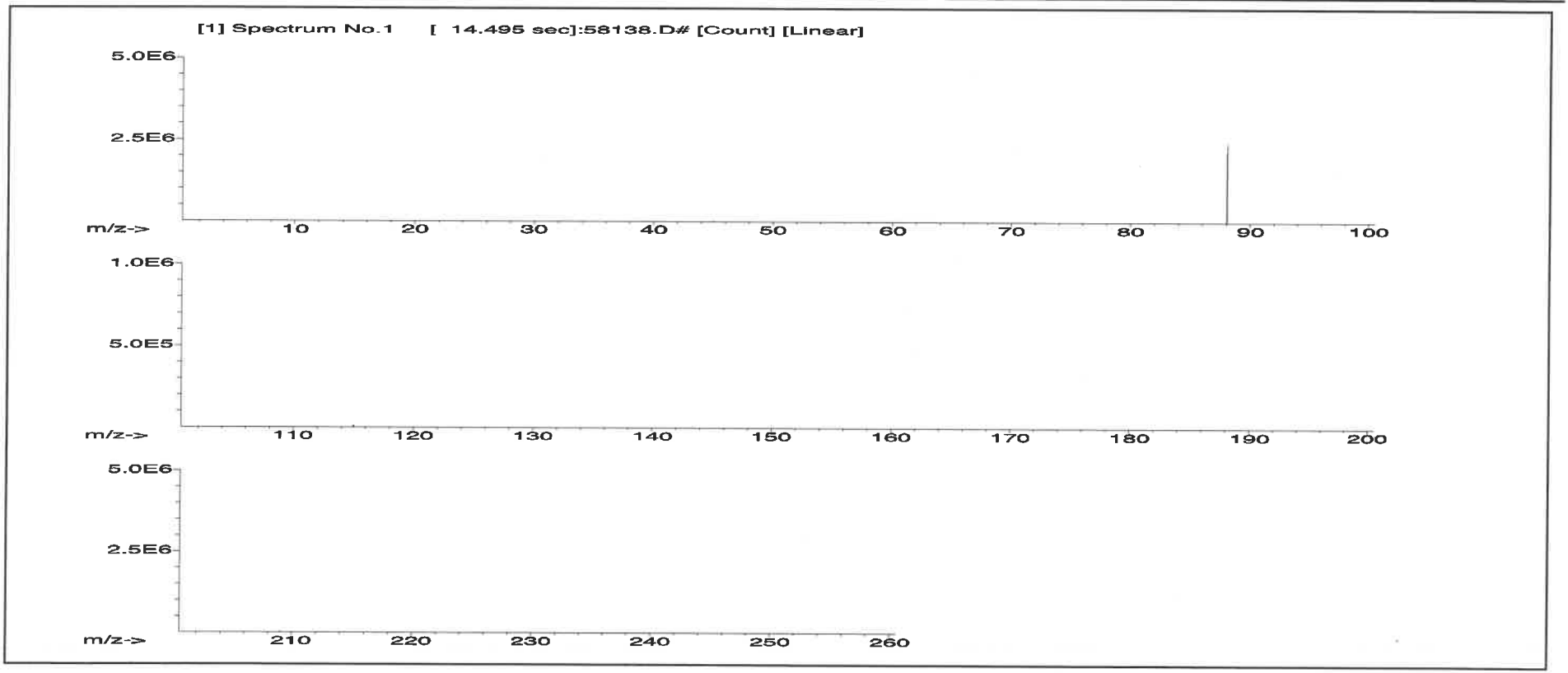
674

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**	2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



675

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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R ! 8/5/24

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679

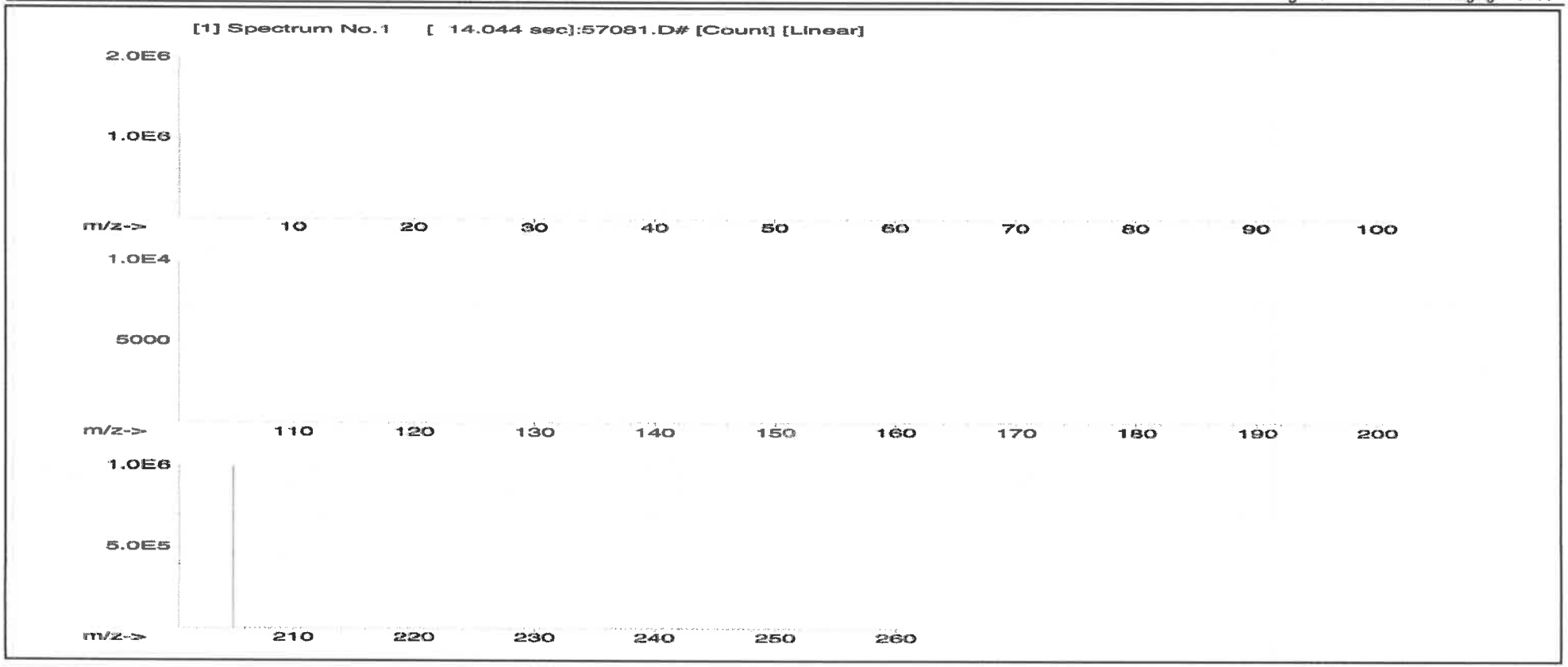
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



677

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Rc. 8/5/24

678

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**	24002546	Nitric Acid	
Lot Number:	**062424**			
Description:	**Vanadium (V)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	062427			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.3	0.06	Flask Uncertainty	

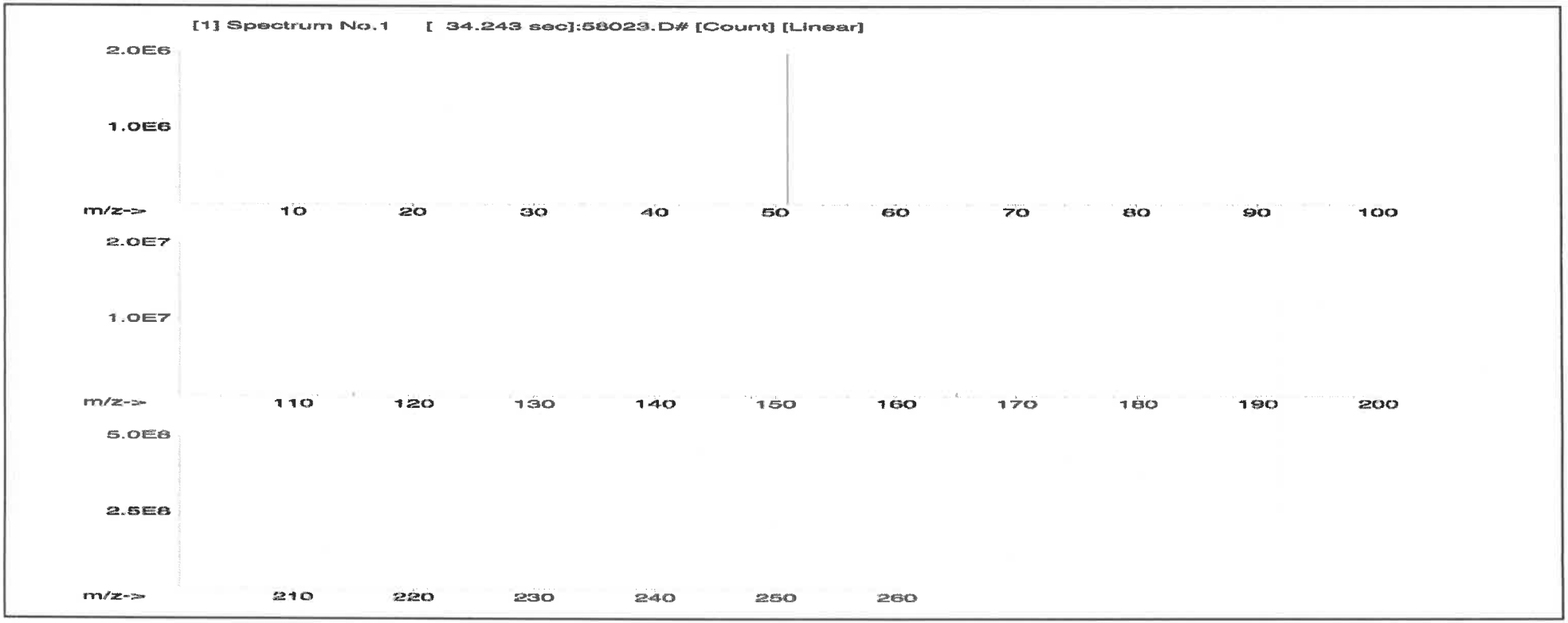
Aleah O'Brady

Formulated By:	Aleah O'Brady	062424

Pedro Rentas

Reviewed By:	Pedro L. Rentas	062424

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium metavanadate (V)	58123	021224	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165



679

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

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Certified by:

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JP 11/11/24

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164720

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : ~~MBH6H8~~ MBH6M8

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 11/07/2024 **Time :** 17:30 **Temp :** 95 °C

End Digest Date: 11/07/2024 **Time :** 18:11 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: JPP

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP83046
Spike Sol. B	1.00	MP83047
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	4.00	MP83122
1:4 HCl Solution	10.00	MP82128
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3 CELL #34 : 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24 18:20	JPP / Met dig.	Mathew Cook
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164720

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4624-01	MBH6M7	N/A	1.15	500	Brown	Yellow	Medium	N/A	N/A	1
P4624-02	MBH6M8	N/A	1.31	500	Brown	Yellow	Medium	N/A	N/A	2
P4624-03	MBH6M9	N/A	1.23	500	Brown	Yellow	Medium	N/A	N/A	3
P4624-04	MBH6N0	N/A	1.42	500	Brown	Yellow	Medium	N/A	N/A	4
P4624-05	MBH6N1	N/A	1.35	500	Brown	Yellow	Medium	N/A	N/A	5
P4624-06	MBH8M6	N/A	1.23	500	Brown	Yellow	Medium	N/A	N/A	6
P4624-07	MBH6N2	N/A	1.32	500	Brown	Yellow	Medium	N/A	N/A	7
P4624-08	MBH6N3	N/A	1.10	500	Brown	Yellow	Medium	N/A	N/A	8
P4624-09	MBH6N4	N/A	1.41	500	Brown	Yellow	Medium	N/A	N/A	9
P4624-10	MBH6N5	N/A	1.20	500	Brown	Yellow	Medium	N/A	N/A	10
P4624-11	MBH6N6	N/A	1.35	500	Brown	Yellow	Medium	N/A	N/A	11
P4624-12	MBH6N6D	N/A	1.32	500	Brown	Yellow	Medium	N/A	N/A	12
P4624-13	MBH6N6S	N/A	1.40	500	Brown	Yellow	Medium	N/A	MP83046	13
P4624-14	MBH6N7	N/A	1.38	500	Brown	Yellow	Medium	N/A	N/A	14
PB164720BL	PBS720	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	15
PB164720BS	LCS720	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP83047	16

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133380

Review By	Mohan Bera	Review On	11/11/2024 4:25:52 AM
Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	11/09/24 20:58		Jaswal	OK
2	S00	S0	CAL1	11/09/24 21:53		Jaswal	OK
3	S02	S02	CAL3	11/09/24 21:59		Jaswal	OK
4	S03	S03	CAL4	11/09/24 22:03		Jaswal	OK
5	S04	S04	CAL5	11/09/24 22:05		Jaswal	OK
6	S05	S05	CAL6	11/09/24 22:08		Jaswal	OK
7	S06	S06	CAL7	11/09/24 22:11		Jaswal	OK
8	S07	S07	CAL8	11/09/24 22:14		Jaswal	OK
9	S08	S08	CAL9	11/09/24 22:16		Jaswal	OK
10	ICV001	ICV001	ICV	11/09/24 22:40	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	11/09/24 22:43		Jaswal	OK
12	ICSA001	ICSA001	ICSA	11/09/24 22:47		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	11/09/24 22:50		Jaswal	OK
14	CCV001	CCV001	CCV	11/09/24 23:02	Inst. paused for review	Jaswal	OK
15	CCB001	CCB001	CCB	11/09/24 23:06		Jaswal	OK
16	PB164720BL	PBS720	MB	11/09/24 23:16		Jaswal	OK
17	PB164720BS	LCS720	LCS	11/09/24 23:19		Jaswal	OK
18	PB164583BL	PBS583	MB	11/09/24 23:23		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133380

Review By	Mohan Bera	Review On	11/11/2024 4:25:52 AM
Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

19	PB164583BS	LCS583	LCS	11/09/24 23:26		Jaswal	OK
20	PB164583BSD	LCSD583	LCSD	11/09/24 23:29		Jaswal	OK
21	P4624-01	MBH6M7	SAM	11/09/24 23:33	INT_STD 89Y(1) Fail	Jaswal	Dilution
22	P4624-02	MBH6M8	SAM	11/09/24 23:36	INT_STD 6Li Fail	Jaswal	Dilution
23	P4624-03	MBH6M9	SAM	11/09/24 23:39	INT_STD 6Li Fail	Jaswal	Dilution
24	P4624-04	MBH6N0	SAM	11/09/24 23:42	INT_STD 6Li Fail	Jaswal	Dilution
25	P4624-05	MBH6N1	SAM	11/09/24 23:45	INT_STD 6Li Fail	Jaswal	Dilution
26	P4624-06	MBH8M6	SAM	11/09/24 23:48	INT_STD 6Li Fail	Jaswal	Dilution
27	P4624-07	MBH6N2	SAM	11/09/24 23:51	INT_STD 6Li Fail	Jaswal	Dilution
28	P4624-08	MBH6N3	SAM	11/09/24 23:54		Jaswal	OK
29	P4624-09	MBH6N4	SAM	11/09/24 23:57		Jaswal	OK
30	P4624-10	MBH6N5	SAM	11/10/24		Jaswal	OK
31	P4624-11	MBH6N6	SAM	11/10/24 00:03	INT_STD 6Li Fail	Jaswal	OK
32	P4624-12	MBH6N6D	DUP	11/10/24 00:06	INT_STD 6Li Fail	Jaswal	OK
33	P4624-11L	MBH6N6L	SD	11/10/24 00:09	INT_STD 6Li Fail	Jaswal	OK
34	P4624-13	MBH6N6S	MS	11/10/24 00:13	INT_STD 6Li Fail	Jaswal	OK
35	P4624-14	MBH6N7	SAM	11/10/24 00:16		Jaswal	OK
36	P4521-01	MYE4N5	SAM	11/10/24 00:19		Jaswal	OK
37	P4521-02	MYE4N6	SAM	11/10/24 00:22		Jaswal	OK
38	P4521-03	MYE4N7	SAM	11/10/24 00:25		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133380

Review By	Mohan Bera	Review On	11/11/2024 4:25:52 AM
Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

39	P4521-04	MYE4N8	SAM	11/10/24 00:28		Jaswal	OK
40	P4521-05	MYE4N9	SAM	11/10/24 00:31		Jaswal	OK
41	P4521-06	MYE4P0	SAM	11/10/24 00:34		Jaswal	OK
42	P4521-07	MYE4P1	SAM	11/10/24 00:37	INT_STD 6Li Fail	Jaswal	Dilution
43	P4521-08	MYE4P2	SAM	11/10/24 00:40	INT_STD 45Sc(2),89Y(1&2) Fail, Ba,Co,Ni,V High	Jaswal	Dilution
44	P4521-09	MYE4P2D	DUP	11/10/24 00:43	INT_STD 45Sc(2),89Y(1&2) Fail, Ba,Co,Ni,V High	Jaswal	Dilution
45	CCV002	CCV002	CCV	11/10/24 01:00		Jaswal	OK
46	CCB002	CCB002	CCB	11/10/24 01:02		Jaswal	OK
47	P4521-08L	MYE4P2L	SD	11/10/24 01:06	INT_STD 45Sc(2),89Y(1&2) Fail, Ba,Co,Ni,V High	Jaswal	Dilution
48	P4521-10	MYE4P2S	MS	11/10/24 01:09	INT_STD 45Sc(2),89Y(1&2) Fail, Ba,Co,Ni,V High	Jaswal	Dilution
49	P4521-08MS	MYE4P2SRE	MS	11/10/24 01:12	INT_STD 45Sc(2),89Y(1&2) Fail, Ba,Co,Ni,V High	Jaswal	Dilution
50	P4521-11	MYE4P3	SAM	11/10/24 01:14	INT_STD 6Li Fail	Jaswal	Dilution
51	P4521-12	MYE4P4	SAM	11/10/24 01:17	INT_STD 6Li Fail	Jaswal	Dilution
52	P4521-13	MYE4P5	SAM	11/10/24 01:20	INT_STD 6Li Fail	Jaswal	Dilution
53	P4521-14	MYE4Q2	SAM	11/10/24 01:23	INT_STD 6Li Fail	Jaswal	Dilution
54	P4521-15	MYE4Q3	SAM	11/10/24 01:26	INT_STD 6Li Fail	Jaswal	Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133380

Review By	Mohan Bera	Review On	11/11/2024 4:25:52 AM
Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

55	P4521-16	MYE4Q4	SAM	11/10/24 01:29		Jaswal	OK
56	P4521-17	MYE4Q5	SAM	11/10/24 01:32		Jaswal	OK
57	P4521-18	MYE4Q6	SAM	11/10/24 01:35	INT_STD 6Li Fail	Jaswal	Dilution
58	P4521-19	MYE4Q7	SAM	11/10/24 01:38		Jaswal	OK
59	P4521-20	MYE4Q8	SAM	11/10/24 01:42		Jaswal	OK
60	P4521-21	MYE4Q9	SAM	11/10/24 01:45		Jaswal	OK
61	P4521-22	MYE4R0	SAM	11/10/24 01:48		Jaswal	OK
62	P4624-01DL	MBH6M7	SAM	11/10/24 01:55	2X For INT_STD 89Y(1)	Jaswal	Confirms
63	P4624-02DL	MBH6M8	SAM	11/10/24 01:58	2X For INT_STD 6LI	Jaswal	Confirms
64	P4624-03DL	MBH6M9	SAM	11/10/24 02:01	2X For INT_STD 6LI	Jaswal	Confirms
65	P4624-04DL	MBH6N0	SAM	11/10/24 02:04	2X For INT_STD 6LI	Jaswal	Confirms
66	P4624-05DL	MBH6N1	SAM	11/10/24 02:07	2X For INT_STD 6LI	Jaswal	Confirms
67	P4624-06DL	MBH8M6	SAM	11/10/24 02:10	2X For INT_STD 6LI	Jaswal	Confirms
68	P4624-07DL	MBH6N2	SAM	11/10/24 02:14	2X For INT_STD 6LI	Jaswal	Confirms
69	P4624-08DL	MBH6N3	SAM	11/10/24 02:17	Not Required	Jaswal	Not Ok
70	P4624-09DL	MBH6N4	SAM	11/10/24 02:20	Not Required	Jaswal	Not Ok
71	P4624-10DL	MBH6N5	SAM	11/10/24 02:23	Not Required	Jaswal	Not Ok
72	P4624-11DL	MBH6N6	SAM	11/10/24 02:26	2X For INT_STD 6Li , Still Fail So Report From Original	Jaswal	Not Ok

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Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

73	P4624-12DL	MBH6N6D	DUP	11/10/24 02:29	2X For INT_STD 6Li , Still Fail So Report From Original	Jaswal	Not Ok
74	P4624-11LDL	MBH6N6L	SD	11/10/24 02:32	2X For INT_STD 6Li , Still Fail So Report From Original	Jaswal	Not Ok
75	P4624-13DL	MBH6N6S	MS	11/10/24 02:36	2X For INT_STD 6Li , Still Fail So Report From Original	Jaswal	Not Ok
76	P4624-14DL	MBH6N7	SAM	11/10/24 02:39	Not Required	Jaswal	Not Ok
77	CCV003	CCV003	CCV	11/10/24 02:42		Jaswal	OK
78	CCB003	CCB003	CCB	11/10/24 02:57	Inst. paused for review	Jaswal	OK
79	P4521-01DL	MYE4N5	SAM	11/10/24 03:00	Not Required	Jaswal	Not Ok
80	P4521-02DL	MYE4N6	SAM	11/10/24 03:03	Not Required	Jaswal	Not Ok
81	P4521-03DL	MYE4N7	SAM	11/10/24 03:06	Not Required	Jaswal	Not Ok
82	P4521-04DL	MYE4N8	SAM	11/10/24 03:09	Not Required	Jaswal	Not Ok
83	P4521-05DL	MYE4N9	SAM	11/10/24 03:12	Not Required	Jaswal	Not Ok
84	P4521-06DL	MYE4P0	SAM	11/10/24 03:15	Not Required	Jaswal	Not Ok
85	P4521-07DL	MYE4P1	SAM	11/10/24 03:19	2X For INT_STD 6Li	Jaswal	Confirms
86	P4521-08DL	MYE4P2	SAM	11/10/24 03:22	2X For INT_STD 45Sc(2),89Y(1&2), 2X For Ba,Co,Ni,V	Jaswal	Confirms
87	P4521-09DL	MYE4P2D	DUP	11/10/24 03:25	2X For INT_STD 45Sc(2),89Y(1&2), 2X For Ba,Co,Ni,V	Jaswal	Confirms

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Instrument ID: P7

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Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

88	P4521-08LDL	MYE4P2L	SD	11/10/24 03:28	2X For INT_STD 45Sc(2),89Y(1&2), 2X For Ba,Co,Ni,V	Jaswal	Confirms
89	P4521-10DL	MYE4P2S	MS	11/10/24 03:31	2X For INT_STD 45Sc(2),89Y(1&2), 2X For Ba,Co,Ni,V	Jaswal	Confirms
90	P4521-08MSDL	MYE4P2SRE	MS	11/10/24 03:34	2X For INT_STD 45Sc(2),89Y(1&2), 2X For Ba,Co,Ni,V	Jaswal	Confirms
91	P4521-11DL	MYE4P3	SAM	11/10/24 03:37	2X For INT_STD 6Li	Jaswal	Confirms
92	P4521-12DL	MYE4P4	SAM	11/10/24 03:40	2X For INT_STD 6Li	Jaswal	Confirms
93	P4521-13DL	MYE4P5	SAM	11/10/24 03:43	2X For INT_STD 6Li	Jaswal	Confirms
94	P4521-14DL	MYE4Q2	SAM	11/10/24 03:46	2X For INT_STD 6Li	Jaswal	Confirms
95	P4521-15DL	MYE4Q3	SAM	11/10/24 03:49	2X For INT_STD 6Li	Jaswal	Confirms
96	P4521-16DL	MYE4Q4	SAM	11/10/24 03:52	Not Required	Jaswal	Not Ok
97	P4521-17DL	MYE4Q5	SAM	11/10/24 03:55	Not Required	Jaswal	Not Ok
98	P4521-18DL	MYE4Q6	SAM	11/10/24 03:58	2X For INT_STD 6Li	Jaswal	Confirms
99	P4521-19DL	MYE4Q7	SAM	11/10/24 04:01	Not Required	Jaswal	Not Ok
100	P4521-20DL	MYE4Q8	SAM	11/10/24 04:04	Not Required	Jaswal	Not Ok
101	P4521-21DL	MYE4Q9	SAM	11/10/24 04:07	Not Required	Jaswal	Not Ok
102	P4521-22DL	MYE4R0	SAM	11/10/24 04:11	Not Required	Jaswal	Not Ok
103	P4521-08DL2	MYE4P2	SAM	11/10/24 04:14	Not Required	Jaswal	Not Ok
104	P4521-09DL2	MYE4P2D	DUP	11/10/24 04:17	Not Required	Jaswal	Not Ok
105	CCV004	CCV004	CCV	11/10/24 04:20		Jaswal	OK

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Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB133380

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Supervise By	Sarabjit Jaswal	Supervise On	11/11/2024 4:27:25 AM

STD. NAME	STD REF.#
ICAL Standard	MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016
ICV Standard	MP83041
CCV Standard	MP83042
ICSA Standard	MP83043,MP83044
CRI Standard	
LCS Standard	MP83046
Chk Standard	MP83050,MP83049

106	CCB004	CCB004	CCB	11/10/24 04:23		Jaswal	OK
107	P4521-08LDL2	MYE4P2L	SD	11/10/24 04:26	Not Required	Jaswal	Not Ok
108	P4521-10DL2	MYE4P2S	MS	11/10/24 04:29	Not Required	Jaswal	Not Ok
109	P4521-08MSDL2	MYE4P2SRE	MS	11/10/24 04:32	Not Required	Jaswal	Not Ok
110	CCV005	CCV005	CCV	11/10/24 04:35		Jaswal	OK
111	CCB005	CCB005	CCB	11/10/24 04:38		Jaswal	OK

EPA SAMPLE NO.

MBH6M7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-01

% Solids: 95.3 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.089	U	11/08/2024	1410

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

Comments:

EPA SAMPLE NO.

MBH6M8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-02

% Solids: 95.6 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	U	11/08/2024	1413

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

Comments:

EPA SAMPLE NO.

MBH6M9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-03

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.094	U	11/08/2024	1415

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

Comments:

EPA SAMPLE NO.

MBH6N0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-04

% Solids: 96 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.10	U	11/08/2024	1417

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

Comments:

EPA SAMPLE NO.

MBH6N1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-05

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.096	U	11/08/2024	1419

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

Comments:

EPA SAMPLE NO.

MBH6N2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-07

% Solids: 94.8 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.094	U	11/08/2024	1424

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

Comments:

EPA SAMPLE NO.

MBH6N3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-08

% Solids: 92.6 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.095	U	11/08/2024	1426

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

Comments:

EPA SAMPLE NO.

MBH6N4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-09

% Solids: 95.9 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.093	U	11/08/2024	1428

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

Comments:

EPA SAMPLE NO.

MBH6N5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-10

% Solids: 93 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.098	U	11/08/2024	1431

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

Comments:

EPA SAMPLE NO.

MBH6N6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-11

% Solids: 93.5 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.097	U	11/08/2024	1433

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

Comments:

EPA SAMPLE NO.

MBH6N7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-14

% Solids: 94.5 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.098	U	11/08/2024	1446

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

Comments:

EPA SAMPLE NO.

MBH8M6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-06

% Solids: 95.2 Date Received: 10/29/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.097	U	11/08/2024	1422

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

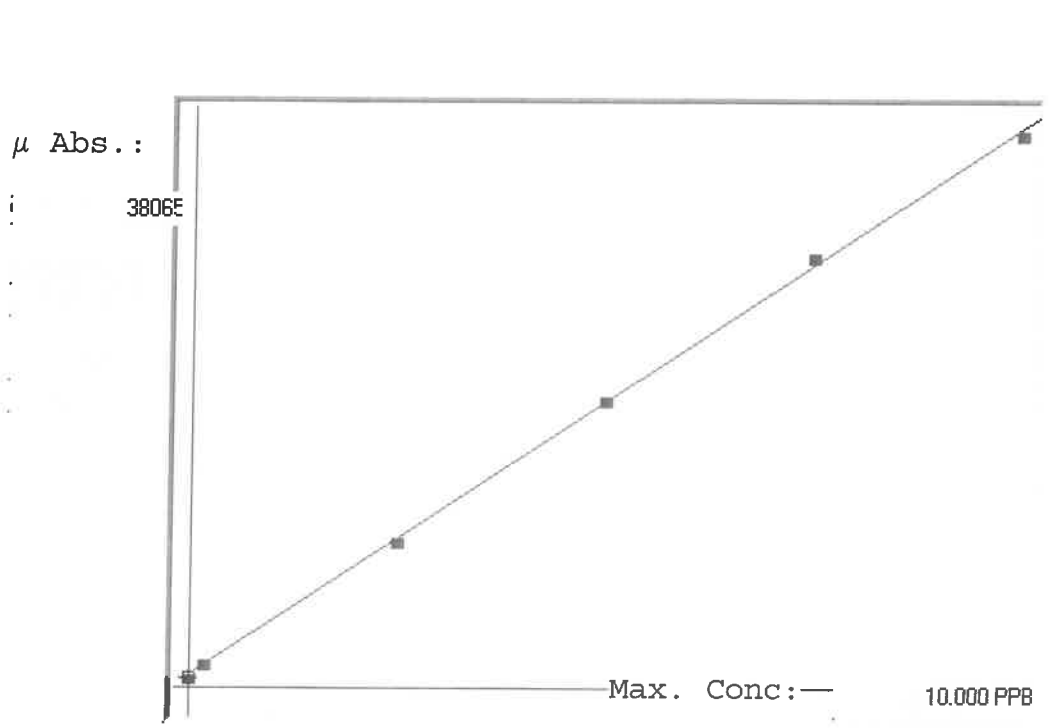
Comments:

Reviewed By:mohan
On:11/8/2024 9:51:52 PM
Inst Id :CV1

LB 133356

SFAM01.1

INSTRUMENT ID : CV1



A= 0.0000e+000

B= 2.6560e-004 slope

C= -2.2736e-001 y-intercept

Rho= 0.9997412

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	b/o 1)
0.00	0.000	-0.026	-0.026	759	0.000	759					11
0.05	0.050					442	0				
0.20	0.200	0.223	0.023	1697	0.0 %	1697					12
2.50	2.500	2.442	-0.058	10050	0.0 %	10050					-2
5.00	5.000	5.025	0.025	19775	0.0 %	19775					1
7.50	7.500	7.653	0.153	29669	0.0 %	29669					2
10.0	10.000	9.883	-0.117	38065	0.0 %	38065					-1

Reviewed By:mohan
On:11/8/2024 9:51:52 PM
Inst Id :CV1

LB133356

INSTRUMENT ID:CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	759	-	0	SFAM01.1	PPB	11/8/2024 13:14	Std
0.2	S01	1697	-	0.2	SFAM01.1	PPB	11/8/2024 13:19	Std
2.5	S02	10050	-	2.5	SFAM01.1	PPB	11/8/2024 13:22	Std
5	S03	19775	-	5	SFAM01.1	PPB	11/8/2024 13:26	Std
7.5	S04	29669	-	7.5	SFAM01.1	PPB	11/8/2024 13:28	Std
10	S05	38065	-	10	SFAM01.1	PPB	11/8/2024 13:36	Std
ICV076	ICV076	17224	4.3474	-	SFAM01.1	PPB	11/8/2024 13:38	SMPL
ICB076	ICB076	686	-0.0452	-	SFAM01.1	PPB	11/8/2024 13:43	SMPL
CCV054	CCV054	19697	5.0042	-	SFAM01.1	PPB	11/8/2024 13:45	SMPL
CCB054	CCB054	813	-0.0114	-	SFAM01.1	PPB	11/8/2024 13:52	SMPL
P4496-04	MBHDO5	637	-0.0582	-	SFAM01.1	PPB	11/8/2024 13:57	SMPL
P4496-05	MBHDO6	1804	0.2518	-	SFAM01.1	PPB	11/8/2024 13:59	SMPL
P4496-06	MBHZC7	707	-0.0396	-	SFAM01.1	PPB	11/8/2024 14:01	SMPL
P4496-07	MBHZC8	841	-0.004	-	SFAM01.1	PPB	11/8/2024 14:04	SMPL
P4496-08	MBHZC8D	966	0.0292	-	SFAM01.1	PPB	11/8/2024 14:06	SMPL
P4624-01	MBH6M7	-48	-0.2401	-	SFAM01.1	PPB	11/8/2024 14:10	SMPL
P4624-02	MBH6M8	-25	-0.234	-	SFAM01.1	PPB	11/8/2024 14:13	SMPL
P4624-03	MBH6M9	248	-0.1615	-	SFAM01.1	PPB	11/8/2024 14:15	SMPL
P4624-04	MBH6N0	137	-0.191	-	SFAM01.1	PPB	11/8/2024 14:17	SMPL
P4624-05	MBH6N1	207	-0.1724	-	SFAM01.1	PPB	11/8/2024 14:19	SMPL
P4624-06	MBH8M6	138	-0.1907	-	SFAM01.1	PPB	11/8/2024 14:22	SMPL
P4624-07	MBH6N2	44	-0.2157	-	SFAM01.1	PPB	11/8/2024 14:24	SMPL
P4624-08	MBH6N3	562	-0.0781	-	SFAM01.1	PPB	11/8/2024 14:26	SMPL
P4624-09	MBH6N4	123	-0.1947	-	SFAM01.1	PPB	11/8/2024 14:28	SMPL
P4624-10	MBH6N5	79	-0.2064	-	SFAM01.1	PPB	11/8/2024 14:31	SMPL
P4624-11	MBH6N6	29	-0.2197	-	SFAM01.1	PPB	11/8/2024 14:33	SMPL
P4624-12	MBH6N6D	63	-0.2106	-	SFAM01.1	PPB	11/8/2024 14:35	SMPL
P4624-13	MBH6N6S	12093	2.9846	-	SFAM01.1	PPB	11/8/2024 14:38	SMPL
CCV055	CCV055	20269	5.1561	-	SFAM01.1	PPB	11/8/2024 14:40	SMPL
CCB055	CCB055	773	-0.0221	-	SFAM01.1	PPB	11/8/2024 14:44	SMPL
P4624-14	MBH6N7	49	-0.2143	-	SFAM01.1	PPB	11/8/2024 14:46	SMPL
PB164799BL	PBS799	815	-0.0109	-	SFAM01.1	PPB	11/8/2024 14:49	SMPL
P4501-08DLX2	MBHCT5	23118	5.9128	-	SFAM01.1	PPB	11/8/2024 14:51	SMPL
P4496-09	MBHZC8S	10873	2.6605	-	SFAM01.1	PPB	11/8/2024 14:56	SMPL
CCV056	CCV056	20110	5.1139	-	SFAM01.1	PPB	11/8/2024 14:58	SMPL
CCB056	CCB056	775	-0.0215	-	SFAM01.1	PPB	11/8/2024 15:17	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : P4624

Test : Mercury

Prepbatch ID : PB164799,

Sequence ID/Qc Batch ID: LB133356,

Standard ID :
MP82652,MP82654,MP83159,MP83161,MP83162,MP83163,MP83164,MP83165,MP83166,MP83167,MP83168,MP83169,MP83170,MP83171,MP83174,

Chemical ID :
M4371,M4916,M5062,M5501,M5882,M5953,M6111,M6116,W3112,

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Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP82652	09/30/2024	04/03/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/04/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION	MP82654	09/30/2024	04/03/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 10/04/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5501 = Final Quantity: 2000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP83159	11/08/2024	11/09/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/08/2024

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6111 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83161	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 1.00000ml of M6116 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP83162	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1341	Hg 0.2 PPB STD	MP83163	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 247.30000ml of W3112 + 0.20000ml of MP83161 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP83164	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 245.00000ml of W3112 + 2.50000ml of MP83161 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1343	Hg 5.0 PPB STD	MP83165	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 242.50000ml of W3112 + 5.00000ml of MP83161 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP83166	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 240.00000ml of W3112 + 7.50000ml of MP83161 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1345	Hg 10.0 PPB STD	MP83167	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 237.50000ml of W3112 + 10.00000ml of MP83161 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP83168	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M5953 + 2.50000ml of M6116 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83169	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 2.50000ml of M6116 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83170	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6116 + 10.00000ml of MP83161 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83171	11/08/2024	11/09/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 11/08/2024

FROM 495.00000ml of W3112 + 5.00000ml of M6116 = Final Quantity: 500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
887	AQUA REGIA FOR HG ON 7471A	MP83174	11/08/2024	11/09/2024	Mohan Bera	None	None	Sarabjit Jaswal 11/08/2024

FROM 150.00000ml of M6111 + 50.00000ml of M6116 = Final Quantity: 200.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22F0762009	05/09/2027	11/04/2024 / Eman	09/29/2024 / Janvi	M6111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24B1362001	05/03/2025	11/04/2024 / Janvi	09/29/2024 / Eman	M6116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

715

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5308
Rad on 4/14/23
MG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

721

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

MSS28-37 MB
MSS53 MB 3/30/23

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.6 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.190
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	0.8 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	14.9 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	0.8 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	1.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	0.7 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	< 0.2 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	3 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	1 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

MB 11/11/24

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164799

SOP ID : M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2

SDG No : MBHCX5/~~MBH6H8~~ MBH6M8

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#1 2. N/A

Start Digest Date: 11/08/2024 **Time :** 10:35 **Temp :** 94 °C

End Digest Date: 11/08/2024 **Time :** 11:05 **Temp :** 93 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#1

Dig Technician Signature: MB

Supervisor Signature: JZ

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP83168
CCV	100mL	MP83170
Matrix Spike	1.0mL	MP83161
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP83174
KMnO4 (5%)	15.0mL	MP82652
Hydroxylamine HCL (12%)	6.0mL	MP82654
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP83162
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP83163
2.5 ppb	S2.5	100mL	MP83164
5.0 ppb	S5.0	100mL	MP83165
7.5 ppb	S7.5	100mL	MP83166
10.0 ppb	S10.0	100mL	MP83167
ICV	ICV	100mL	MP83168
ICB	ICB	100mL	MP83169
CCV	CCV	100mL	MP83170
CCB	CCB	100mL	MP83171
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/8/24 @ 11:35	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164799

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4496-04	MBHDO5	0.53	100	NA	N/A	2-1
P4496-05	MBHDO6	0.50	100	NA	N/A	2
P4496-06	MBHZC7	0.53	100	NA	N/A	3
P4496-07	MBHZC8	0.54	100	NA	N/A	4
P4496-08	MBHZC8D	0.51	100	NA	N/A	5
P4496-09	MBHZC8S	0.56	100	NA	MP83161	6
P4624-01	MBH6M7	0.59	100	NA	N/A	7
P4624-02	MBH6M8	0.50	100	NA	N/A	8
P4624-03	MBH6M9	0.56	100	NA	N/A	9
P4624-04	MBH6N0	0.51	100	NA	N/A	10
P4624-05	MBH6N1	0.55	100	NA	N/A	11
P4624-06	MBH8M6	0.54	100	NA	N/A	12
P4624-07	MBH6N2	0.56	100	NA	N/A	13
P4624-08	MBH6N3	0.57	100	NA	N/A	14
P4624-09	MBH6N4	0.56	100	NA	N/A	15
P4624-10	MBH6N5	0.55	100	NA	N/A	16
P4624-11	MBH6N6	0.55	100	NA	N/A	17
P4624-12	MBH6N6D	0.53	100	NA	N/A	18
P4624-13	MBH6N6S	0.53	100	NA	MP83161	19
P4624-14	MBH6N7	0.54	100	NA	N/A	20
PB164799BL	PBS799	0.50	100	NA	N/A	21

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133356

Review By	Sarabjit Jaswal	Review On	11/8/2024 9:51:01 PM
Supervise By	Mohan Bera	Supervise On	11/8/2024 9:51:52 PM

STD. NAME	STD REF.#
ICAL Standard	MP83162,MP83163,MP83164,MP83165,MP83166,MP83167
ICV Standard	MP83168
CCV Standard	MP83170
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83169,MP83171,MP83159

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 13:14		Mohan	OK
2	S0.2	S01	CAL2	11/08/24 13:19		Mohan	OK
3	S2.5	S02	CAL3	11/08/24 13:22		Mohan	OK
4	S5	S03	CAL4	11/08/24 13:26		Mohan	OK
5	S7.5	S04	CAL5	11/08/24 13:28		Mohan	OK
6	S10	S05	CAL6	11/08/24 13:36		Mohan	OK
7	ICV076	ICV076	ICV	11/08/24 13:38		Mohan	OK
8	ICB076	ICB076	ICB	11/08/24 13:43		Mohan	OK
9	CCV054	CCV054	CCV	11/08/24 13:45		Mohan	OK
10	CCB054	CCB054	CCB	11/08/24 13:52		Mohan	OK
11	P4496-04	MBHDO5	SAM	11/08/24 13:57		Mohan	OK
12	P4496-05	MBHDO6	SAM	11/08/24 13:59		Mohan	OK
13	P4496-06	MBHZC7	SAM	11/08/24 14:01		Mohan	OK
14	P4496-07	MBHZC8	SAM	11/08/24 14:04		Mohan	OK
15	P4496-08	MBHZC8D	DUP	11/08/24 14:06		Mohan	OK
16	P4624-01	MBH6M7	SAM	11/08/24 14:10		Mohan	OK
17	P4624-02	MBH6M8	SAM	11/08/24 14:13		Mohan	OK
18	P4624-03	MBH6M9	SAM	11/08/24 14:15		Mohan	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133356

Review By	Sarabjit Jaswal	Review On	11/8/2024 9:51:01 PM
Supervise By	Mohan Bera	Supervise On	11/8/2024 9:51:52 PM

STD. NAME	STD REF.#
ICAL Standard	MP83162,MP83163,MP83164,MP83165,MP83166,MP83167
ICV Standard	MP83168
CCV Standard	MP83170
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83169,MP83171,MP83159

19	P4624-04	MBH6N0	SAM	11/08/24 14:17		Mohan	OK
20	P4624-05	MBH6N1	SAM	11/08/24 14:19		Mohan	OK
21	P4624-06	MBH8M6	SAM	11/08/24 14:22		Mohan	OK
22	P4624-07	MBH6N2	SAM	11/08/24 14:24		Mohan	OK
23	P4624-08	MBH6N3	SAM	11/08/24 14:26		Mohan	OK
24	P4624-09	MBH6N4	SAM	11/08/24 14:28		Mohan	OK
25	P4624-10	MBH6N5	SAM	11/08/24 14:31		Mohan	OK
26	P4624-11	MBH6N6	SAM	11/08/24 14:33		Mohan	OK
27	P4624-12	MBH6N6D	DUP	11/08/24 14:35		Mohan	OK
28	P4624-13	MBH6N6S	MS	11/08/24 14:38		Mohan	OK
29	CCV055	CCV055	CCV	11/08/24 14:40		Mohan	OK
30	CCB055	CCB055	CCB	11/08/24 14:44		Mohan	OK
31	P4624-14	MBH6N7	SAM	11/08/24 14:46		Mohan	OK
32	PB164799BL	PBS799	MB	11/08/24 14:49		Mohan	OK
33	P4501-08DL	MBHCT5	SAM	11/08/24 14:51	2X for Hg	Mohan	Confirms
34	P4496-09	MBHZC8S	MS	11/08/24 14:56		Mohan	OK
35	CCV056	CCV056	CCV	11/08/24 14:58		Mohan	OK
36	CCB056	CCB056	CCB	11/08/24 15:17		Mohan	OK

EPA SAMPLE NO.

MBH6M7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-01

% Solids: 95.3 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6M8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-02

% Solids: 95.6 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.50	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6M9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-03

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-04

% Solids: 96 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-05

% Solids: 94.9 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.50	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-07

% Solids: 94.8 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.51	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-08

% Solids: 92.6 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.54	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-09

% Solids: 95.9 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.50	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-10

% Solids: 93 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.53	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-11

% Solids: 93.5 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	11/05/2024	1434

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

Comments:

EPA SAMPLE NO.

MBH6N7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-14

% Solids: 94.5 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.50	U	11/05/2024	1440

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

Comments:

EPA SAMPLE NO.

MBH8M6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51835 MA No. : SDG No.: MBH6M8

Matrix: SOIL Lab Sample ID: P4624-06

% Solids: 95.2 Date Received: 10/29/2024

Analytical Method: CN

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	11/05/2024	1434

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

Comments:

Reviewed By:Iwona
On:11/6/2024 10:12:35 AM
Inst Id :KONELAB

Test results — Aquakem 7.2AQ1 — Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF — Instrument ID : Konelab

11/5/2024 14:54

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Errors
ICV001 ICV001	95.290	0.0	0.086	
ICB001 ICB001	-1.331	0.0	0.001	
CCV001 CCV001	242.710	0.0	0.216	
CCB001 CCB001	-0.171	0.0	0.002	
PB164686BL PBS686	-1.203	0.0	0.001	
P4624-01 MBH6M7	-0.073	0.0	0.002	
P4624-02 MBH6M8	0.727	0.0	0.003	
P4624-03 MBH6M9	-0.537	0.0	0.001	
P4624-04 MBH6N0	-1.374	0.0	0.001	
P4624-05 MBH6N1	-1.141	0.0	0.001	
P4624-06 MBH8M6	-0.968	0.0	0.001	
P4624-07 MBH6N2	0.278	0.0	0.002	
P4624-08 MBH6N3	0.540	0.0	0.002	
P4624-09 MBH6N4	-1.086	0.0	0.001	
P4624-10 MBH6N5	-1.463	0.0	0.001	
P4624-11 MBH6N6	0.804	0.0	0.003	
P4624-12 MBH6N6D	-0.203	0.0	0.002	
P4624-13 MBH6N6S	87.252	0.0	0.079	
P4624-14 MBH6N7	-1.574	0.0	0.001	
CCV002 CCV002	247.153	0.0	0.220	
CCB002 CCB002	-0.472	0.0	0.002	

NF 11.05.2024

N	21
Mean	31.579
SD	76.0787
CV%	240.92

Reviewed By:Iwona
On:11/6/2024 10:12:35 AM
Inst Id :KONELAB

Aquakem v. 7.2AQ1
Results from time period:
Tue Nov 05 13:48:34 2024
Tue Nov 05 14:40:58 2024

Sample Id	Sam/Ctr/cA	Test short name	Test type	Result	Result u	Result date and time
S0.0	A	CNEPA-NEW	P	0.2978	µg/l	11/5/2024 13:48:34
S5.0	A	CNEPA-NEW	P	4.1931	µg/l	11/5/2024 13:48:35
S10.0	A	CNEPA-NEW	P	9.5921	µg/l	11/5/2024 13:48:36
S100.0	A	CNEPA-NEW	P	98.5137	µg/l	11/5/2024 13:48:37
S250.0	A	CNEPA-NEW	P	254.1796	µg/l	11/5/2024 13:48:38
S500.0	A	CNEPA-NEW	P	498.2237	µg/l	11/5/2024 13:48:39
ICV001 ICV001	S	CNEPA-NEW	P	95.2903	µg/l	11/5/2024 14:27:05
ICB001 ICB001	S	CNEPA-NEW	P	-1.3311	µg/l	11/5/2024 14:27:08
CCV001 CCV001	S	CNEPA-NEW	P	242.7104	µg/l	11/5/2024 14:27:10
CCB001 CCB001	S	CNEPA-NEW	P	-0.1705	µg/l	11/5/2024 14:27:12
PB164686BL PBS686	S	CNEPA-NEW	P	-1.2025	µg/l	11/5/2024 14:27:14
P4624-01 MBH6M7	S	CNEPA-NEW	P	-0.0726	µg/l	11/5/2024 14:34:40
P4624-02 MBH6M8	S	CNEPA-NEW	P	0.727	µg/l	11/5/2024 14:34:41
P4624-03 MBH6M9	S	CNEPA-NEW	P	-0.537	µg/l	11/5/2024 14:34:42
P4624-04 MBH6N0	S	CNEPA-NEW	P	-1.3743	µg/l	11/5/2024 14:34:43
P4624-05 MBH6N1	S	CNEPA-NEW	P	-1.1407	µg/l	11/5/2024 14:34:44
P4624-06 MBH8M6	S	CNEPA-NEW	P	-0.9676	µg/l	11/5/2024 14:34:45
P4624-07 MBH6N2	S	CNEPA-NEW	P	0.278	µg/l	11/5/2024 14:34:46
P4624-08 MBH6N3	S	CNEPA-NEW	P	0.5403	µg/l	11/5/2024 14:34:47
P4624-09 MBH6N4	S	CNEPA-NEW	P	-1.0865	µg/l	11/5/2024 14:34:48
P4624-10 MBH6N5	S	CNEPA-NEW	P	-1.4629	µg/l	11/5/2024 14:34:49
P4624-11 MBH6N6	S	CNEPA-NEW	P	0.8035	µg/l	11/5/2024 14:34:50
P4624-12 MBH6N6D	S	CNEPA-NEW	P	-0.2031	µg/l	11/5/2024 14:40:51
P4624-13 MBH6N6S	S	CNEPA-NEW	P	87.2519	µg/l	11/5/2024 14:40:52
P4624-14 MBH6N7	S	CNEPA-NEW	P	-1.5739	µg/l	11/5/2024 14:40:54
CCV002 CCV002	S	CNEPA-NEW	P	247.1528	µg/l	11/5/2024 14:40:57
CCB002 CCB002	S	CNEPA-NEW	P	-0.472	µg/l	11/5/2024 14:40:58

Reviewed By:Iwona
On:11/6/2024 10:12:35 AM
Inst Id :KONELAB

Calibration results Aquakem 7.2AQ1 Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF Instrument ID : Konelab

11/5/2024 13:54

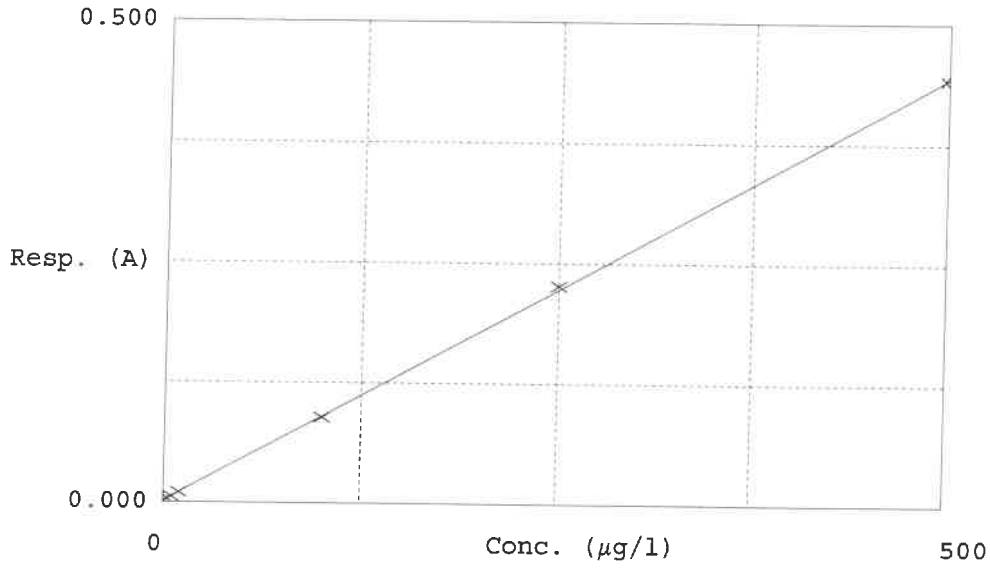
Test CNEPA-NEW

Accepted 11/5/2024 13:54

~~Factor~~ Slope ~~1133~~ 0.000883 NF
~~Bias~~ Intercept 0.002 11.06.2024

Coeff. of det. 0.999880

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)	
1	0.0PPBCN	0.002	0.2978	0.0000		
2	5.0PPBCN	0.006	4.1931	5.0000	-16.1	
3	10PPBCN	0.010	9.5921	10.0000	-4.1	NF
4	100PPBCN	0.089	98.5137	100.0000	-1.5	
5	250PPBCN	0.226	254.1796	250.0000	1.7	11.05.2024
6	500PPBCN	0.442	498.2237	500.0000	-0.4	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P4624

Test : Cyanide

Prepbatch ID : PB164686,

Sequence ID/Qc Batch ID: LB133306,

Standard ID :
WP108640,WP108688,WP109089,WP110035,WP110103,WP110390,WP110391,WP110541,WP110542,WP110543,WP110544,WP110545,WP110546,WP110547,WP110548,WP110549,WP110559,

Chemical ID :
E3657,M5673,M5951,W2668,W2882,W3001,W3011,W3019,W3112,W3113,W3139,W3142,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP108640	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 07/08/2024

FROM 21.00000L of W3112 + 210.00000gram of E3657 = Final Quantity: 21.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1581	Sodium hydroxide solution, 1.25N	WP108688	07/11/2024	01/11/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/11/2024

FROM 50.00000gram of W3113 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2816	CN-EPA Pyridine-Burbituric Acid solution	WP109089	08/07/2024	12/27/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/07/2024

FROM 15.00000gram of W2882 + 15.00000ml of M5951 + 75.00000ml of W3019 + 895.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP110035	10/03/2024	11/30/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/04/2024

FROM 1.00000ml of W3142 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

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Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/08/2024

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1585	Cyanide Intermediate standard solution, 10PPM	WP110541	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 1.00000ml of W3142 + 79.00000ml of W3112 + 20.00000ml of WP108688 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1586	Cyanide Cal Std, 500 PPB	WP110542	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 5.00000ml of WP110541 + 95.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1587	Cyanide Cal Std, 250 PPB	WP110543	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 2.50000ml of WP110541 + 97.50000ml of WP108640 = Final Quantity: 0.100 L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1588	Cyanide Cal Std, 100 PPB	WP110544	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 1.00000ml of WP110541 + 99.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1589	Cyanide Cal Std, 10 PPB	WP110545	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 4.00000ml of WP110543 + 96.00000ml of WP108640 = Final Quantity: 0.100 L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1590	Cyanide Cal Std, 5 PPB	WP110546	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 2.00000ml of WP110543 + 98.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1591	Cyanide blank std, 0 PPB	WP110547	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 100.00000ml of WP108640 = Final Quantity: 0.100 L

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1592	Cyanide CCV Std, 250 PPB	WP110548	11/05/2024	11/06/2024	Niha Farheen Shaik	None	None	Jignesh Parikh 11/07/2024

FROM 2.50000ml of WP110541 + 97.50000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1763	Cyanide ICV Std	WP110549	11/05/2024	11/06/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 11/07/2024

FROM 0.50000ml of W3011 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP110559	11/05/2024	11/06/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Jignesh Parikh 11/07/2024

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/27/2024	07/04/2024 / Jaswal	06/23/2024 / Al-Terek	M5951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 / jaswal	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2024	01/03/2024 / Iwona	02/20/2020 / Iwona	W3011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1405J81	11/30/2024	09/25/2024 / Iwona	09/25/2024 / Iwona	W3142

~~W2918~~ W3001 Rec. 06/06/22 exp. 06/06/27

Chem-Impex International, Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Product	**Magnesium chloride hexahydrate**
Lot Number	002251-03319
	Magnesium chloride•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237 **Lot Number: 002251-03319**

Remarks	See material safety data sheet for additional information
	For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar
Quality Control Manager

Sigma-Aldrich.

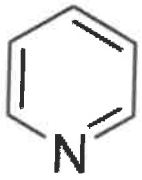
W3019
Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Pyridine - anhydrous, 99.8%

Product Number:	**270970**
Batch Number:	**SHBQ2113**
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
Quality Release Date:	15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

W2160, W2161, W2162, W2163, W2164 Receive by AP on 9/2/2016

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) ***CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS***

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

9673- 33

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

MS947 MS948 MS949
MS950 MS951 MS952

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

W2668 Received on 02/10/2020 by AP

Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaH_2PO_4 \cdot H_2O$)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

773

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

ThermoFisher SCIENTIFIC

Certificate of Analysis

W3139 Received on 9/9/24 by IZ

Product No.:	A12044
Product:	Chloramine-T trihydrate, 98%
Lot No.:	10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

Order our products online **thermofisher.com/chemicals**

This document has been electronically generated and does not require a signature.

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 1405J81 **Product Number:** 2543

Manufacture Date: MAY 20, 2024
Expiration Date: NOV 2024

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.
Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN^-)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Heidi J Green (05/20/2024)
Operations Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

JP 11/11/24

Soil/Sludge Cyanide Preparation Sheet

PB164686

SOP ID : MSFAM01.1-Cyanide-2

SDG No : ~~MBH6M8~~ MBH6M8

Matrix : SOLID

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : JP

Start Digest Date: 11/05/2024 **Time :** 08:00 **Temp :** 123 °C

End Digest Date: 11/05/2024 **Time :** 10:30 **Temp :** 127 °C

II batch 11/05/2024 11:00 123 °C } JP

11/05/2024 12:30 126 °C

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: JP

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
MATRIX SPIKE SOLUTION	1.0ML	WP110035
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	50ML	WP110547 I batch
S5.0	S5.0	50ML	WP110546 "
S10.0	S10.0	50ML	WP110545 "
S100.0	S100.0	50ML	WP110544 "
S250.0	S250.0	50ML	WP110543 "
S500.0	S500.0	50ML	WP110542 "
ICV	ICV	50ML	WP110549 "
ICB	ICB	50ML	WP108640 "
CCV	CCV	50ML	WP110548 "
CCB	CCB	50ML	WP108640 "
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

MIDI-DISTILATION_SOIL; I-ST BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 126 C; Block Therm.ID: WC-CYANIDE-2

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11.05.2024 12:45	JP / WC	NF(WC)
	Preparation Group	Analysis Group 779

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB164686

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4624-01	MBH6M7	1.01	50	N/A	N/A	N/A	N/A	N/A I batch	N/A
P4624-02	MBH6M8	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-03	MBH6M9	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-04	MBH6N0	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-05	MBH6N1	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-06	MBH8M6	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-07	MBH6N2	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-08	MBH6N3	1.00	50	N/A	N/A	N/A	N/A	N/A II batch	N/A
P4624-09	MBH6N4	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-10	MBH6N5	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-11	MBH6N6	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-12	MBH6N6D	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-13	MBH6N6S	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4624-14	MBH6N7	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
PB164686BL	PBS686	1.00	50	N/A	N/A	N/A	N/A	N/A I batch	N/A

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133306

Review By	Niha Farheen Shaik	Review On	11/6/2024 9:42:24 AM
Supervise By	Iwona Zarych	Supervise On	11/6/2024 10:12:35 AM

STD. NAME	STD REF.#
ICAL Standard	WP110547,WP110546,WP110545,WP110544,WP110543,WP110542
ICV Standard	WP110549
CCV Standard	WP110548
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110559

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0.0	S0	CAL1	11/05/24 13:48		Niha	OK
2	S5.0	S01	CAL2	11/05/24 13:48		Niha	OK
3	S10.0	S02	CAL3	11/05/24 13:48		Niha	OK
4	S100.0	S03	CAL4	11/05/24 13:48		Niha	OK
5	S250.0	S04	CAL5	11/05/24 13:48		Niha	OK
6	S500.0	S05	CAL6	11/05/24 13:48		Niha	OK
7	ICV001	ICV001	ICV	11/05/24 14:27		Niha	OK
8	ICB001	ICB001	ICB	11/05/24 14:27		Niha	OK
9	CCV001	CCV001	CCV	11/05/24 14:27		Niha	OK
10	CCB001	CCB001	CCB	11/05/24 14:27		Niha	OK
11	PB164686BL	PBS686	MB	11/05/24 14:27		Niha	OK
12	P4624-01	MBH6M7	SAM	11/05/24 14:34		Niha	OK
13	P4624-02	MBH6M8	SAM	11/05/24 14:34		Niha	OK
14	P4624-03	MBH6M9	SAM	11/05/24 14:34		Niha	OK
15	P4624-04	MBH6N0	SAM	11/05/24 14:34		Niha	OK
16	P4624-05	MBH6N1	SAM	11/05/24 14:34		Niha	OK
17	P4624-06	MBH8M6	SAM	11/05/24 14:34		Niha	OK
18	P4624-07	MBH6N2	SAM	11/05/24 14:34		Niha	OK

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Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133306

Review By	Niha Farheen Shaik	Review On	11/6/2024 9:42:24 AM
Supervise By	Iwona Zarych	Supervise On	11/6/2024 10:12:35 AM

STD. NAME	STD REF.#
ICAL Standard	WP110547,WP110546,WP110545,WP110544,WP110543,WP110542
ICV Standard	WP110549
CCV Standard	WP110548
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110559

19	P4624-08	MBH6N3	SAM	11/05/24 14:34		Niha	OK
20	P4624-09	MBH6N4	SAM	11/05/24 14:34		Niha	OK
21	P4624-10	MBH6N5	SAM	11/05/24 14:34		Niha	OK
22	P4624-11	MBH6N6	SAM	11/05/24 14:34		Niha	OK
23	P4624-12	MBH6N6D	DUP	11/05/24 14:40		Niha	OK
24	P4624-13	MBH6N6S	MS	11/05/24 14:40		Niha	OK
25	P4624-14	MBH6N7	SAM	11/05/24 14:40		Niha	OK
26	CCV002	CCV002	CCV	11/05/24 14:40		Niha	OK
27	CCB002	CCB002	CCB	11/05/24 14:40		Niha	OK

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P4624	Order Date :	10/29/2024 3:00:00 PM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51835	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	10/29/2024 3:00:00 PM	EDD Type :	EPA CLP
Date Sign Off :	11/1/2024 9:05:51 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P4624-01	MBH6M7	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-02	MBH6M8	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-03	MBH6M9	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-04	MBH6N0	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-05	MBH6N1	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-06	MBH8M6	Solid	10/29/2024						
				Cyanide		SFAM_CN	10	11/12/2024	11/12/2024
				Mercury		SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL		SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids		Chemtech -SOP	10	11/12/2024	11/12/2024

P4624-07	MBH6N2	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-08	MBH6N3	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-09	MBH6N4	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-10	MBH6N5	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-11	MBH6N6	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-12	MBH6N6D	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-13	MBH6N6S	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024
P4624-14	MBH6N7	Solid	10/29/2024					
				Cyanide	SFAM_CN	10	11/12/2024	11/12/2024
				Mercury	SFAM_HG	10	11/12/2024	11/12/2024
				Metals CLP MS FULL	SFAM_MS	10	11/12/2024	11/12/2024
				Percent Solids	Chemtech -SOP	10	11/12/2024	11/12/2024

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB164720 **WorkList ID :** 185180 **Department :** Digestion **Date :** 11-06-2024 12:27:49

785

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4624-01	MBH6M7	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-02	MBH6M8	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-03	MBH6M9	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-04	MBH6N0	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-05	MBH6N1	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-06	MBH8M6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-07	MBH6N2	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-08	MBH6N3	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-09	MBH6N4	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-10	MBH6N5	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-11	MBH6N6	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-12	MBH6N6D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-13	MBH6N6S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS
P4624-14	MBH6N7	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_MS

Date/Time 11/7/24 16:00

Raw Sample Received by: JSP (Met dig)

Raw Sample Relinquished by:

Date/Time 11/7/24 17:00

Raw Sample Received by:

Raw Sample Relinquished by: JSP (Met dig)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4624_HgS **WorkList ID :** 185227 **Department :** Digestion **Date :** 11-07-2024 15:45:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4624-01	MBH6M7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-02	MBH6M8	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-03	MBH6M9	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-04	MBH6N0	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-05	MBH6N1	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-06	MBH8M6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-13	MBH6N6S	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-14	MBH6N7	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-07	MBH6N2	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-08	MBH6N3	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-09	MBH6N4	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-10	MBH6N5	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-11	MBH6N6	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG
P4624-12	MBH6N6D	Solid	Mercury	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_HG

786

Date/Time 11/8/24 @ 10:00

Raw Sample Received by: MB - DHS. Lab

Raw Sample Relinquished by: MB - DHS. Lab

Date/Time 10/28/24 @ 10:40

Raw Sample Received by: MB - DHS. Lab

Raw Sample Relinquished by: MB - DHS. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4496_HgS **WorkList ID :** 185225 **Department :** Digestion **Date :** 11-07-2024 15:45:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4496-04	MBHDO5	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG
P4496-05	MBHDO6	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG
P4496-06	MBHZC7	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG
P4496-07	MBHZC8	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG
P4496-08	MBHZC8D	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG
P4496-09	MBHZC8S	Solid	Mercury	Cool 4 deg C	USEP01	Q51	10/18/2024	SFAM_HG

787

Date/Time 11/8/24 @ 10:05

Raw Sample Received by: MB - DG. LG

Raw Sample Relinquished by: MB - DG. LG

Date/Time 10/8/24 @ 10:40

Raw Sample Received by: MB - DG. LG

Raw Sample Relinquished by: MB - DG. LG

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN EPA-11042024 **WorkList ID :** 185108 **Department :** Distillation **Date :** 11-04-2024 11:47:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4624-01	MBH6M7	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-02	MBH6M8	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-03	MBH6M9	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-04	MBH6N0	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-05	MBH6N1	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-06	MBH8M6	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-07	MBH6N2	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-08	MBH6N3	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-09	MBH6N4	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-10	MBH6N5	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-11	MBH6N6	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-12	MBH6N6D	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-13	MBH6N6S	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN
P4624-14	MBH6N7	Solid	Cyanide	Cool 4 deg C	USEP01	Q11	10/29/2024	SFAM_CN

788

Date/Time 11.05.2024, 10:00

Raw Sample Received by: TD (WC)

Raw Sample Relinquished by: [signature]

Date/Time 11.05.2024, 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: TD (WC)