SDG COVER PAGE

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

Lab Code: ACE Case No.: 51952 MA No.: SDG No.: A6301

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
A6301	Q1223-01	X	X	X	
A6302	Q1223-02	X	X	X	
A6303	Q1223-03	X	X	X	
A6304	Q1223-04	X	X	X	
A6305	Q1223-05	X	X	X	
A6305D	Q1223-06	X	X	X	
A6305S	Q1223-07	X	X	X	
A6306	Q1223-08	X	X	X	
A6307	Q1223-09	X	X	X	
A6308	Q1223-10	X	X	X	
A6309	Q1223-11	X	X	X	
A6320	Q1223-12	X	X	X	
A6321	Q1223-13	X	X	X	
A6322	Q1223-14	X	X	X	
A6323	Q1223-15	X	X	X	
A6324	Q1223-16	X	X	X	
A6310	Q1223-17		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 # A6301

USEPA CLP COC (LAB COPY)

DateShipped: 1/29/2025

CarrierName: FedEx

AirbillNo: 771732886964

CHAIN OF CUSTODY RECORD

Case #: 51952

Cooler #: 2

No: 1-012825-084544-0012

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SD-004-012725	A6301	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	A (4 C), C (4 C) (2)	SD/SW-004	01/27/2025 09:15	1 SDG
SD-006-012725	A6302	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	A (4 C), C (4 C) (2)	SD/SW/PW-006	01/27/2025 09:45	1
SD-009-012725	A6303	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	A (4 C), C (4 C) (2)	SD/SW-009	01/27/2025 11:30	1
SD-FD01-012725	A6304	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	A (4 C), C (4 C) (2)	FD-01	01/27/2025 12:00	1
SD-009-SRI-012725	A6305	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	D (4 C), E (4 C) (6)	SD/SW/PW-009-SRI	01/27/2025 11:45	2 ✓
SD-010-012725	A6306	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	D (4 C), E (4 C) (2)	SD/SW/PW-010	01/27/2025 12:45	2
SD-015-012725	A6307	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	F (4 C), G (4 C) (2)	SD-015	01/27/2025 13:15	2
SD-014-012725	A6308	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	H (4 C), I (4 C) (2)	SD/SW-014	01/27/2025 13:40	2
SD-003-012725	A6309	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	J (4 C), K (4 C) (2)	SD/SW/PW-003	01/27/2025 14:30	2
SD-EB-012725	A6310	Equipment Blank/ T.Furtado		Metals + Hg(21), PAH SIM(21)	L (HNO3), M (4 C) (4)	Equipment Blank	01/27/2025 16:00	2 pH 1.9

Sample(s) to be used for Lab QC: SD-009-SRI-012725 Tag D, SD-009-SRI-012725 Tag E - Special Instructions: Sediment samples require 72 hour preliminary results.

Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn

ICP-AES: Al, Ca, Fe, K, Mg, Na

Analysis Key

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	S Hall NUS	1/29/25 0900	CR	9:53 1-30-25	IR-Gun #1 2.4°C, 2.3°C
					Custody Seal Intact
					Trip Blank present

2

USEPA CLP COC (LAB COPY)
DateShipped: 1/29/2025
CarrierName: FedEx
AirbillNo: 771732886964

68HERH20D0011

CHAIN OF CUSTODY RECORD

Case #: 51952
Cooler #: 2

SDG # A6301
No: 1-012825-084544-0012
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 9087898900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SD-021-012825	A6320	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	J (4 C), K (4 C) (2)	SD/SWPW-021	01/28/2025 09:40	1
SD-018-012825	A6321	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	L (4 C), M (4 C) (2)	SD/SW-018	01/28/2025 11:50	1
SD-019-012825	A6322	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	N (4 C), O (4 C) (2)	SD/SW-019	01/28/2025 11:55	1
SD-020-012825	A6323	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	P (4 C), Q (4 C) (2)	SD/SW-020	01/28/2025 14:40	1
SD-008-SRI-012825	A6324	Sediment/ T.Furtado		Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	SD/SW/PW-008-SRI	01/28/2025 15:20	1

Special Instructions: Sediment samples require 72 hour preliminary results.
Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn
ICP-AES: Al, Ca, Fe, K, Mg, Na

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Mobin	1/29/25 0800		953 1-30-25	Th Gun# 1 2.4, 2.3 Custody Seal Intact Temp Blank present

3

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 2
Received By (Print Name) Cassanova Rita		Log-in Date **1/30/2025**
Received By (Signature)		
Case Number 51952	SDG No. A6301	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	Present
5. Airbill No. and Shipping Container ID No.	771732886964 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	01/30/2025
12.Time Received	09:53

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	A6301	N/A	A	Q1223-01	Intact
2	A6302	N/A	A	Q1223-02	Intact
3	A6303	N/A	A	Q1223-03	Intact
4	A6304	N/A	A	Q1223-04	Intact
5	A6320	N/A	J	Q1223-12	Intact
6	A6321	N/A	L	Q1223-13	Intact
7	A6322	N/A	N	Q1223-14	Intact
8	A6323	N/A	P	Q1223-15	Intact
9	A6324	N/A	R	Q1223-16	Intact
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 1/30/25	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) Jessenia Perez		Log-in Date 1/30/2025
Received By (Signature)		
Case Number 51952	SDG No. A6301	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	Present
5. Airbill No. and Shipping Container ID No.	771732887478 2
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	01/30/2025
12.Time Received	09:53

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6305	N/A	D	Q1223-05	Intact
2	A6305D	N/A	D	Q1223-06	Intact
3	A6305S	N/A	D	Q1223-07	Intact
4	A6306	N/A	D	Q1223-08	Intact
5	A6307	N/A	F	Q1223-09	Intact
6	A6308	N/A	H	Q1223-10	Intact
7	A6309	N/A	J	Q1223-11	Intact
8	A6310	1.9	L,M	Q1223-17	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 1/30/25	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.	**51952**	SDG NO.	**A6301**
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	TO	CHECK LAB	REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	3	✓	
3 . Sample Log-In Sheet (DC-1)	4	5	✓	
4 . CSF Inventory Sheet (DC-2)	6	8	✓	
5 . SDG Narrative	9	16	✓	
6 . Communication Logs	17	23	✓	
7 . Percent Solids Log	24	25	✓	
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	26	39	✓	
9 . Instrument raw data by instrument in analysis order	40	189	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	190	331	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	332	333	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	334	336	✓	
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	337	351	✓	
18 . Instrument raw data by instrument in analysis order	352	1612	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1613	1764	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1765	1768	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1769	1779	✓	
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	1780	1794	✓	
27. Instrument raw data by instrument in analysis order	1795	1799	✓	
Other Data				
28. Standard and Reagent Preparation Logs	1800	1833	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1834	1837	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1838	1843	✓	
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	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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 2)	1844	1845	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1846	1848	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1849	1854	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # A6301
CASE # 51952
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1223

A. Number of Samples and Date of Receipt

14 Soil and 01 Water samples were delivered to the laboratory intact on 01/30/2025.

B. Parameters

Test requested for Metals CLP12= Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium & Mercury.

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

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.3^{o}C, 2.4^{o}C

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

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded

with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Issue 2: The laboratory is missing instructions for all PT samples for this Case.

Issue 3: The laboratory would like to confirm if the PT samples for this Case require PRs.

E. Corrective Action taken for above:

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Resolution 2: Per Region 1, the PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Resolution 3: Per Region 1, the PT samples do not require preliminary results (PRs). Please note that two sediment samples have been rescheduled without PRs. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

F. Analytical Techniques:

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

Inter Element correction factors (IECs) are determined annually and correction factor are applied during
ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)

Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample A6301 For Aluminum:

If C = 105.7095 ppm
Vf = 100 ml
W = 4.86 g
S = 0.264(26.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 105.7095 \times \frac{100}{4.86 \times 0.264} \times 1$$

= 8238.9870 mg/kg

= 8200 mg/kg (Reported Result with Signification)

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 A6301 For Antimony:

If C = 0.82 ppb
Vf = 500 ml
W = 4.33 g
S = 0.264(26.4/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.82 \times \frac{500}{4.33 \times 0.264} \times 1 / 1000$$

$$= 0.35866 \text{ mg/kg}$$

$$= 0.36 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Water Sample:

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

Where,

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

Example Calculation For Sample A6310 For Manganese:

If C = 1.75 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 1.75 \times \frac{50}{50} \times 1$$

$$= 1.75 \text{ µg/L}$$

$$= 1.8 \text{ µg/L (Reported Result with Signification)}$$

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 For Sample A6301:

If C = 1.1621 ppb
Vf = 100 mL
W = 2.03 g
S = 0.264(26.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 1.1621 \times \frac{100}{2.03 \times 0.264} \times 1 / 1000$$

$$= 0.21684 \text{ mg/kg}$$

$$= 0.22 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for Hg Water Sample:

$$\text{Concentration or Result (µg/L)} = C \times DF$$

Where,

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

Example Calculation For Mercury:

If C = 0.1811 ppb
DF = 1

Concentration or Result (µg/L) = 0.1811 x 1

= 0.1811 µg/L

= 0.18 µg/L (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. Spike sample did meet requirements except for Antimony, Selenium and Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Some samples have % solids results less than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8.
EPA Sample ID %Solid

EPA Sample ID	% Solid
A6301	26.4
A6302	23.8
A6305	24.3
A6305D	24.3
A6305S	24.3
A6307	24.7
A6322	12.9
A6323	28.3
A6324	25.5

Some samples have % solids results less than 50% but more than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8.

EPA Sample ID	% Solid
A6308	44.2
A6321	47.9

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
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc

284 Sheffield Street
Mountainside, NJ 07092

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: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Monday, February 03, 2025 2:29 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Bauer, Heather E; Johnson, Matthew; Iverson, Jessica; David, Edgardo D
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple | FINAL
Attachments: 51952-TR COC.pdf; PE Instructions 01.31.25 (003).pdf; SKM_95825013110190.pdf

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Secured by Check Point

Updated Record of Communication

This ROC is being updated to confirm that two sediment PT samples have been rescheduled without PRs (issue 3).

Good afternoon ACE,

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case.

Resolution 2: Per Region 1, the PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Scheduling

Issue 3: The laboratory would like to confirm if the PT samples for this Case require PRs.

Resolution 3: Per Region 1, the PT samples do not require preliminary results (PRs). Please note that two sediment samples have been rescheduled without PRs. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

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

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166
Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

GENERAL DYNAMICS
information technology

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Friday, January 31, 2025 2:30 PM
To: deepak.parmar@alliancetg.com; sohil.jodhani@alliancetg.com; mohammad.ahmed@alliancetg.com
Cc: Johnson, Matthew <Matthew.Johnson32@gdit.com>; Bauer, Heather E <Heather.Bauer@gdit.com>; Iverson, Jessica <iverson.jessica@epa.gov>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple | FINAL

Good afternoon ACE,

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Resolution 2: Per Region 1, the PT samples do not require preliminary results (PRs). The PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

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

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166
Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 1:18 PM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

This Message Is From an External Sender

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

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.
Yes, the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.
The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: Gary Glennon <gglennon@nobis-group.com>
Sent: Friday, January 31, 2025 12:40 PM

To: Iverson, Jessica <iverson.jessica@epa.gov>
Cc: Alyssa Epstein <aepstein@nobis-group.com>
Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hi Jessica,
Please see my responses in red below.
Thanks!

Gary Glennon *he/him/his*
Data Integration Specialist

Nobis Group® - 100% Employee-Owned
engineering & environmental **solutions**
55 Technology Drive Suite 101, Lowell, MA 01851
p (978) 703-6007 • c (617) 943-3361

From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 11:56 AM
To: Gary Glennon <gglennon@nobis-group.com>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

EXTERNAL

Hello,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.
Yes, the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.
The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: Iverson, Jessica
Sent: Friday, January 31, 2025 11:55 AM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Hello,

On the last communication the sampler stated that PT instructions were provided to the laboratory when the samples were dropped off. I will inquire about both issues and ask for additional copies of the instructions to be sent.

Jessica Iverson
QA Chemist|Regional Sample Coordinator
Quality Assurance Branch
Laboratory Services and Applied Science Division
EPA Region 1 – New England
Phone: 617-918-8630

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Friday, January 31, 2025 11:44 AM
To: Iverson, Jessica <iverson.jessica@epa.gov>
Cc: Bauer, Heather E <Heather.Bauer@gdit.com>; Johnson, Matthew <Matthew.Johnson32@gdit.com>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good morning Jessica,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166
Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

From: Deepak Parmar Deepak.Parmar@alliancetg.com
Sent: Friday, January 31, 2025 11:23 AM
To: DeBerry, Eric Eric.Deberry@gdit.com
Cc: Sohil Jodhani Sohil.Jodhani@AllianceTG.com
Subject: Region 01 | Case 51952 | Lab ACE | Issue Discrepancies with COC /PE Instruction.

This Message Is From an External Sender

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

Good morning,

PE Instruction missing for all PE sample received for this Case. PE samples required PR ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Sent: Friday, January 31, 2025 10:23 AM
To: DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Percent Solids

This Message Is From an External Sender

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

Hi,

Lab has received sediments samples for this case and samples required PR as per scheduling. Lab has proceeded with the analysis for SVOA upon receipt of the samples. Lab did the percent solids for the samples under this case and found that the samples A6301, A6302, A6305, A6307, A6322, A6323 & A6324 has less than 30% solids. In this case, lab has already processed the samples with 30g sample volume due to Preliminary results required for the samples and Lab will report final data as processed. Please note that samples do not have any standing water received in the container and sample matrix is very light textured soil. Please confirm that the resolution will be applied for this case.

Please see attached.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3152
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
In Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:50
Out Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134484

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
Q1223-01	A6301	1	1.15	8.82	9.97	3.48	26.4	
Q1223-02	A6302	2	1.15	8.62	9.77	3.2	23.8	
Q1223-03	A6303	3	1.16	8.81	9.97	5.76	52.2	
Q1223-04	A6304	4	1.11	8.78	9.89	5.57	50.8	
Q1223-05	A6305	5	1.19	8.52	9.71	3.26	24.3	
Q1223-06	A6305D	6	1.19	8.52	9.71	3.26	24.3	
Q1223-07	A6305S	7	1.19	8.52	9.71	3.26	24.3	
Q1223-08	A6306	8	1.15	8.77	9.92	7.2	69.0	
Q1223-09	A6307	9	1.19	8.43	9.62	3.27	24.7	
Q1223-10	A6308	10	1.18	8.43	9.61	4.91	44.2	
Q1223-11	A6309	11	1.17	8.80	9.97	6.88	64.9	
Q1223-12	A6320	12	1.15	8.83	9.98	8.57	84.0	
Q1223-13	A6321	13	1.16	8.61	9.77	5.28	47.9	
Q1223-14	A6322	14	1.13	8.76	9.89	2.26	12.9	
Q1223-15	A6323	15	1.15	8.84	9.99	3.65	28.3	
Q1223-16	A6324	16	1.14	8.83	9.97	3.39	25.5	

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

WORKLIST(Hardcopy Internal Chain)

VS 134484

WorkList Name : 51-q1223 **WorkList ID :** 187295 **Department :** Wet-Chemistry **Date :** 01-30-2025 12:13:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1223-01	A6301	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-02	A6302	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-03	A6303	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-04	A6304	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-05	A6305	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-06	A6305D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-07	A6305S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-08	A6306	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-09	A6307	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-10	A6308	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-11	A6309	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-12	A6320	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-13	A6321	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-14	A6322	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-15	A6323	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-16	A6324	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO

25

Date/Time 01/30/25 12:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 01/30/25 13:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

EPA SAMPLE NO.

A6301

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-01

% Solids: 26.4 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	8200		02/02/2025	1305
7440-70-2	Calcium	6500		02/02/2025	1305
7439-89-6	Iron	34000		02/02/2025	1305
7439-95-4	Magnesium	800		02/02/2025	1305
7440-09-7	Potassium	260	J	02/02/2025	1305
7440-23-5	Sodium	110	J	02/02/2025	1305

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

Comments:

EPA SAMPLE NO.

A6302

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-02

% Solids: 23.8 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	5100		02/02/2025	1309
7440-70-2	Calcium	12000		02/02/2025	1309
7439-89-6	Iron	31000		02/02/2025	1309
7439-95-4	Magnesium	680		02/02/2025	1309
7440-09-7	Potassium	480		02/02/2025	1309
7440-23-5	Sodium	150	J	02/02/2025	1309

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

Comments:

EPA SAMPLE NO.

A6303

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-03

% Solids: 52.2 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	5500		02/02/2025	1313
7440-70-2	Calcium	1700		02/02/2025	1313
7439-89-6	Iron	14000		02/02/2025	1313
7439-95-4	Magnesium	1700		02/02/2025	1313
7440-09-7	Potassium	240	J	02/02/2025	1313
7440-23-5	Sodium	730	U	02/02/2025	1313

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

Comments:

EPA SAMPLE NO.

A6304

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-04

% Solids: 50.8 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	5700		02/02/2025	1317
7440-70-2	Calcium	1600		02/02/2025	1317
7439-89-6	Iron	15000		02/02/2025	1317
7439-95-4	Magnesium	1800		02/02/2025	1317
7440-09-7	Potassium	210	J	02/02/2025	1317
7440-23-5	Sodium	850	U	02/02/2025	1317

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

Comments:

EPA SAMPLE NO.

A6305

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-05

% Solids: 24.3 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	14000		02/02/2025	1234
7440-70-2	Calcium	11000		02/02/2025	1234
7439-89-6	Iron	27000		02/02/2025	1234
7439-95-4	Magnesium	2400		02/02/2025	1234
7440-09-7	Potassium	710		02/02/2025	1234
7440-23-5	Sodium	1700		02/02/2025	1234

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

Comments:

EPA SAMPLE NO.

A6306

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-08

% Solids: 69 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	7000		02/02/2025	1321
7440-70-2	Calcium	830		02/02/2025	1321
7439-89-6	Iron	14000		02/02/2025	1321
7439-95-4	Magnesium	2100		02/02/2025	1321
7440-09-7	Potassium	660		02/02/2025	1321
7440-23-5	Sodium	650	U	02/02/2025	1321

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

Comments:

EPA SAMPLE NO.

A6307

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-09

% Solids: 24.7 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	8500		02/02/2025	1325
7440-70-2	Calcium	840		02/02/2025	1325
7439-89-6	Iron	10000		02/02/2025	1325
7439-95-4	Magnesium	940		02/02/2025	1325
7440-09-7	Potassium	210	J	02/02/2025	1325
7440-23-5	Sodium	150	J	02/02/2025	1325

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

Comments:

EPA SAMPLE NO.

A6308

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-10

% Solids: 44.2 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	3600		02/02/2025	1329
7440-70-2	Calcium	1200		02/02/2025	1329
7439-89-6	Iron	20000		02/02/2025	1329
7439-95-4	Magnesium	990	J	02/02/2025	1329
7440-09-7	Potassium	560	J	02/02/2025	1329
7440-23-5	Sodium	1000	U	02/02/2025	1329

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

Comments:

EPA SAMPLE NO.

A6309

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-11

% Solids: 64.9 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	4000		02/02/2025	1333
7440-70-2	Calcium	1300		02/02/2025	1333
7439-89-6	Iron	11000		02/02/2025	1333
7439-95-4	Magnesium	1700		02/02/2025	1333
7440-09-7	Potassium	370	J	02/02/2025	1333
7440-23-5	Sodium	220	J	02/02/2025	1333

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

Comments:

EPA SAMPLE NO.

A6320

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-12

% Solids: 84 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	6400		02/02/2025	1346
7440-70-2	Calcium	720		02/02/2025	1346
7439-89-6	Iron	5800		02/02/2025	1346
7439-95-4	Magnesium	1700		02/02/2025	1346
7440-09-7	Potassium	290	J	02/02/2025	1346
7440-23-5	Sodium	73	J	02/02/2025	1346

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

Comments:

EPA SAMPLE NO.

A6321

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-13

% Solids: 47.9 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	10000		02/02/2025	1350
7440-70-2	Calcium	1900		02/02/2025	1350
7439-89-6	Iron	12000		02/02/2025	1350
7439-95-4	Magnesium	2700		02/02/2025	1350
7440-09-7	Potassium	940		02/02/2025	1350
7440-23-5	Sodium	230	J	02/02/2025	1350

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

Comments:

EPA SAMPLE NO.

A6322

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-14

% Solids: 12.9 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	11000		02/02/2025	1354
7440-70-2	Calcium	6600		02/02/2025	1354
7439-89-6	Iron	84000	D	02/02/2025	1513
7439-95-4	Magnesium	2600		02/02/2025	1354
7440-09-7	Potassium	1200		02/02/2025	1354
7440-23-5	Sodium	830		02/02/2025	1354

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

Comments:

EPA SAMPLE NO.

A6323

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-15

% Solids: 28.3 Date Received: 01/30/2025

Analytical Method: ICP_AES

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
7429-90-5	Aluminum	5200		02/02/2025	1358
7440-70-2	Calcium	1200		02/02/2025	1358
7439-89-6	Iron	7400		02/02/2025	1358
7439-95-4	Magnesium	1200		02/02/2025	1358
7440-09-7	Potassium	340	J	02/02/2025	1358
7440-23-5	Sodium	170	J	02/02/2025	1358

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

Comments:

EPA SAMPLE NO.

A6324

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-16

% Solids: 25.5 Date Received: 01/30/2025

Analytical Method: ICP_AES

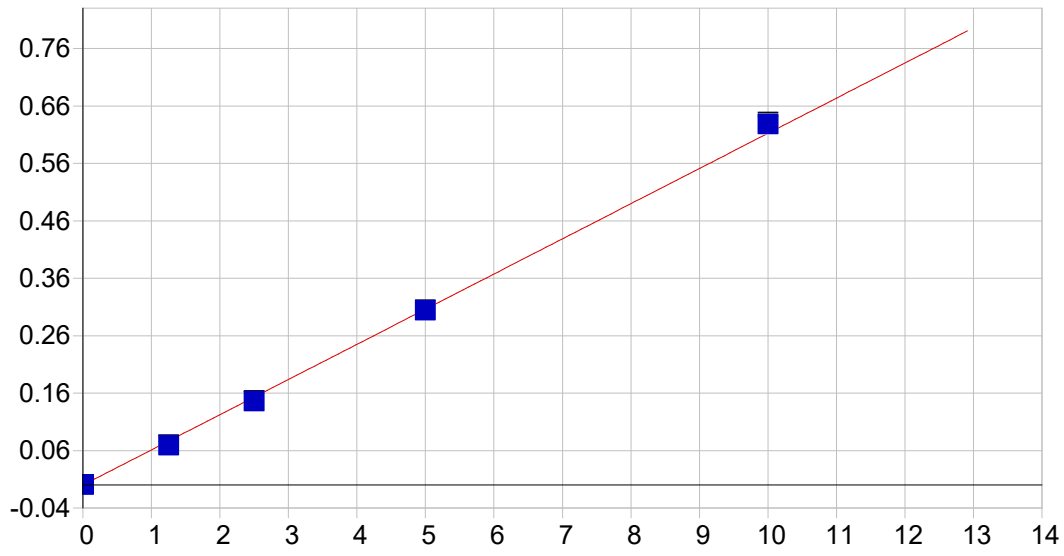
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7500		02/02/2025	1402
7440-70-2	Calcium	10000		02/02/2025	1402
7439-89-6	Iron	9600		02/02/2025	1402
7439-95-4	Magnesium	2100		02/02/2025	1402
7440-09-7	Potassium	470		02/02/2025	1402
7440-23-5	Sodium	610		02/02/2025	1402

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

Comments:

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



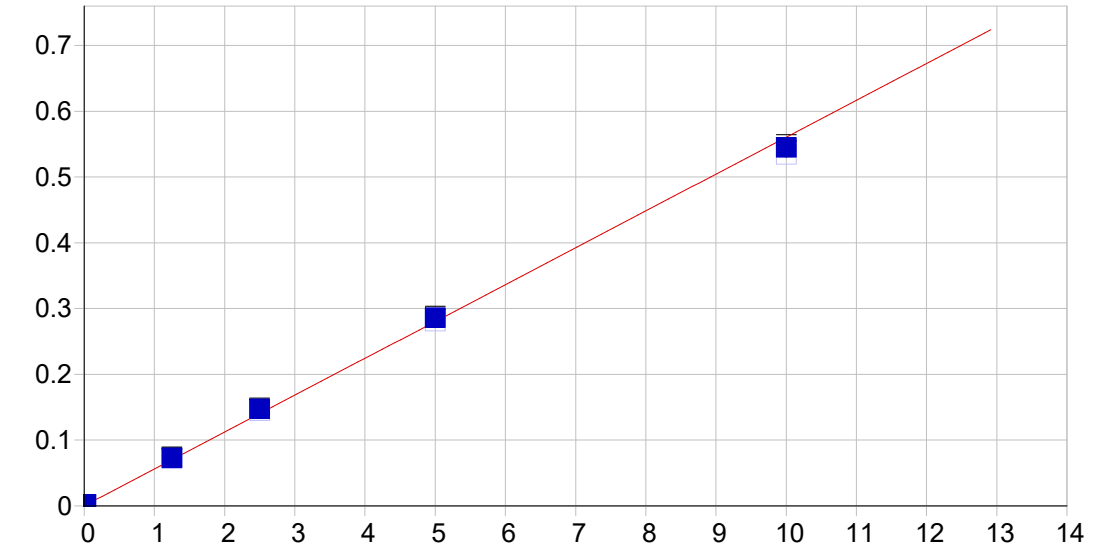
As 189.042 {479}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000067	Re-Slope:	1.000000
A1 (Gain):	0.061239	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999348	Status:	OK.
Std Error of Est:	0.000037		
Predicted MDL:	0.002470		
Predicted MQL:	0.008234		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00007	.000	1
S1	.01000	.00782	-.002	-21.8	.00041	.000	1
S3	2.5000	2.3830	-.117	-4.68	.14559	.001	1
S4	5.0000	4.9679	-.032	-.642	.30361	.001	1
S5	10.000	10.269	.269	2.69	.62768	.003	1
S2	1.2500	1.1327	-.117	-9.38	.06916	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



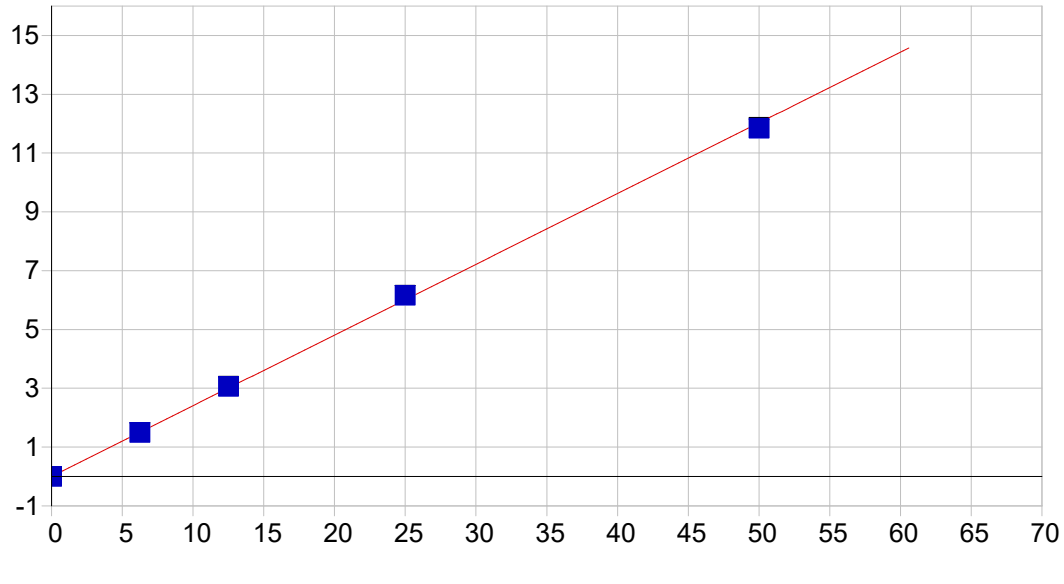
Tl 190.856 {477}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.056027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999510	Status:	OK.
Std Error of Est:	0.000046		
Predicted MDL:	0.002329		
Predicted MQL:	0.007763		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00027	.000	1
S1	.02500	.02629	.001	5.16	.00168	.000	1
S3	2.5000	2.6223	.122	4.89	.14448	.002	1
S4	5.0000	5.1022	.102	2.04	.28071	.002	1
S5	10.000	9.7244	-.276	-2.76	.53426	.004	1
S2	1.2500	1.2999	.050	3.99	.07174	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



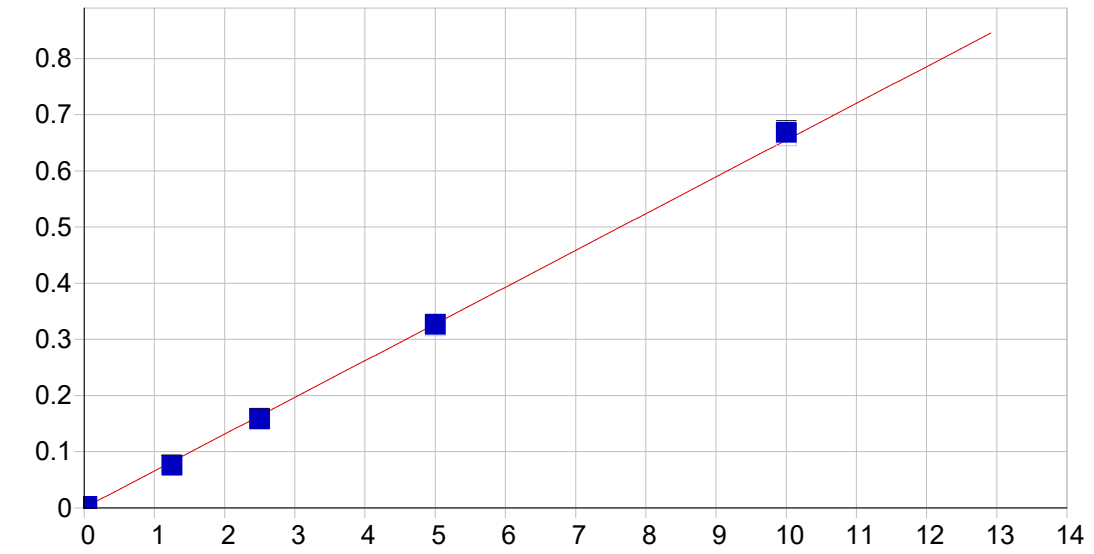
Pb 220.353 {453}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000022	Re-Slope:	1.000000
A1 (Gain):	0.240571	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999837	Status:	OK.
Std Error of Est:	0.000163		
Predicted MDL:	0.001441		
Predicted MQL:	0.004802		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00002	.000	1
S1	.01000	.00957	-.000	-4.30	.00226	.000	1
S3	12.500	12.721	.221	1.77	3.0577	.005	1
S4	25.000	25.599	.599	2.40	6.1533	.006	1
S5	50.000	49.228	-.772	-1.54	11.833	.033	1
S2	6.2500	6.2024	-.048	-.761	1.4908	.004	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



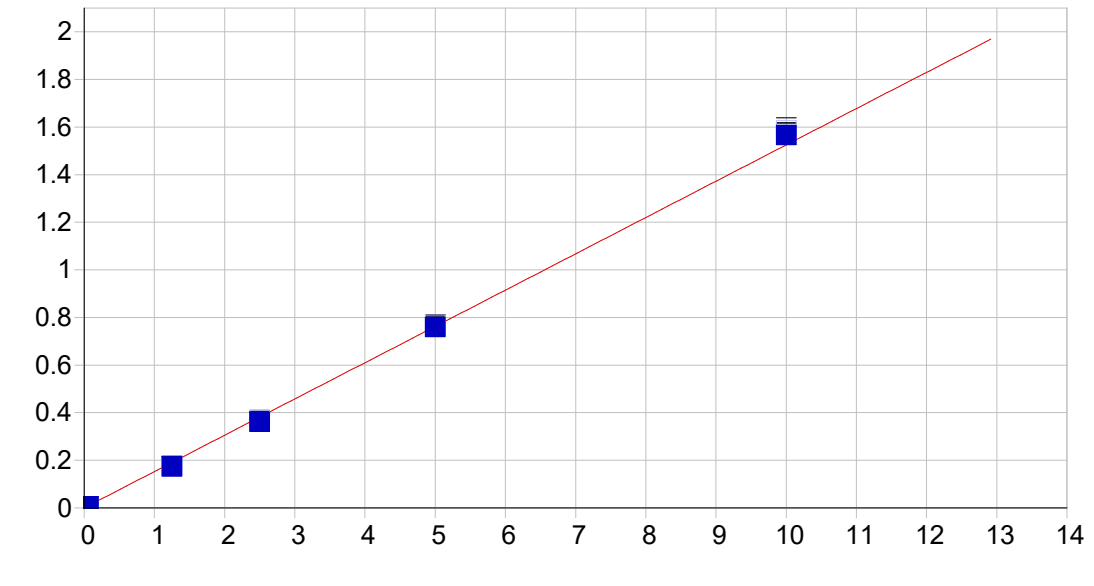
Se 196.090 {472}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000390	Re-Slope:	1.000000
A1 (Gain):	0.065440	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999598	Status:	OK.
Std Error of Est:	0.000058		
Predicted MDL:	0.002880		
Predicted MQL:	0.009600		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00039	.000	1
S1	.03500	.03135	-.004	-10.4	.00244	.000	1
S3	2.5000	2.4116	-.088	-3.54	.15670	.001	1
S4	5.0000	4.9828	-.017	-.343	.32345	.000	1
S5	10.000	10.204	.204	2.04	.66209	.004	1
S2	1.2500	1.1556	-.094	-7.55	.07526	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



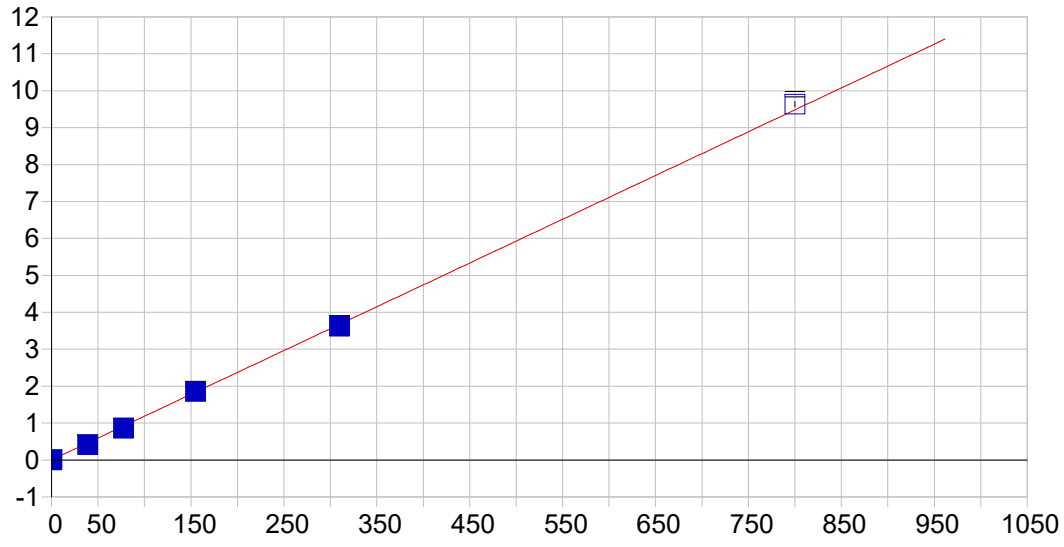
Sb 206.833 {463}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000223	Re-Slope:	1.000000
A1 (Gain):	0.152468	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999354	Status:	OK.
Std Error of Est:	0.000229		
Predicted MDL:	0.001565		
Predicted MQL:	0.005218		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00023	.000	1
S1	.06000	.05395	-.006	-10.1	.00843	.000	1
S3	2.5000	2.3745	-.125	-5.02	.36735	.001	1
S4	5.0000	4.9777	-.022	-.447	.76933	.001	1
S5	10.000	10.270	.270	2.70	1.5863	.010	1
S2	1.2500	1.1342	-.116	-9.26	.17570	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



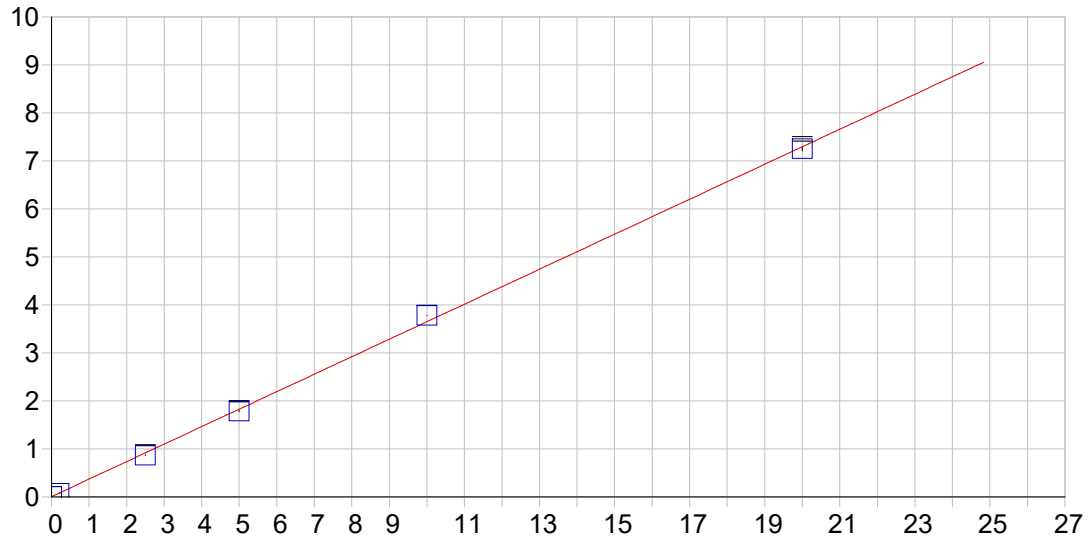
Al 396.152 { 85}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000021	Re-Slope:	1.000000
A1 (Gain):	0.011854	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999645	Status:	OK.
Std Error of Est:	0.000196		
Predicted MDL:	0.008613		
Predicted MQL:	0.028710		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	-.00002	.000	1
S1	.20000	.18308	-.017	-8.46	.00215	.000	1
S3	77.500	72.417	-5.08	-6.56	.85950	.007	1
S4	155.00	155.84	.845	.545	1.8495	.009	1
S5	310.00	305.16	-4.84	-1.56	3.6217	.016	1
S2	38.750	35.015	-3.73	-9.64	.41559	.003	1
S6	800.00	812.85	12.8	1.61	9.6355	.074	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



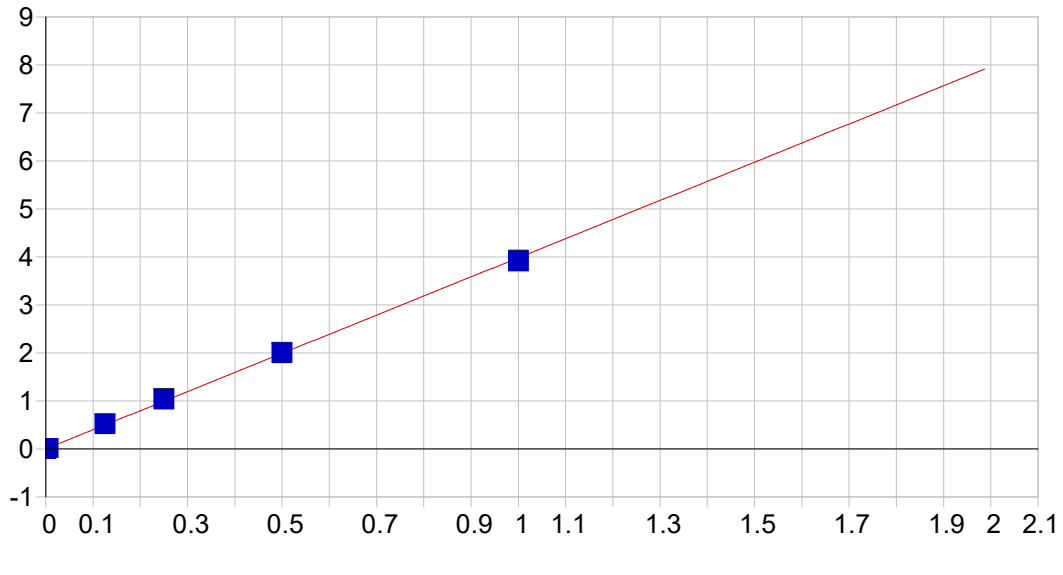
Ba 493.409 { 68}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006408	Re-Slope:	1.000000
A1 (Gain):	0.364421	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999684	Status:	OK.
Std Error of Est:	0.000974		
Predicted MDL:	0.000952		
Predicted MQL:	0.003173		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00641	.000	1
S1	.20000	.19819	-.002	-.903	.07863	.000	1
S3	5.0000	4.8818	-.118	-2.36	1.7854	.014	1
S4	10.000	10.364	.364	3.64	3.7831	.004	1
S5	20.000	19.891	-.109	-.547	7.2549	.047	1
S2	2.5000	2.3659	-.134	-5.36	.86859	.008	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



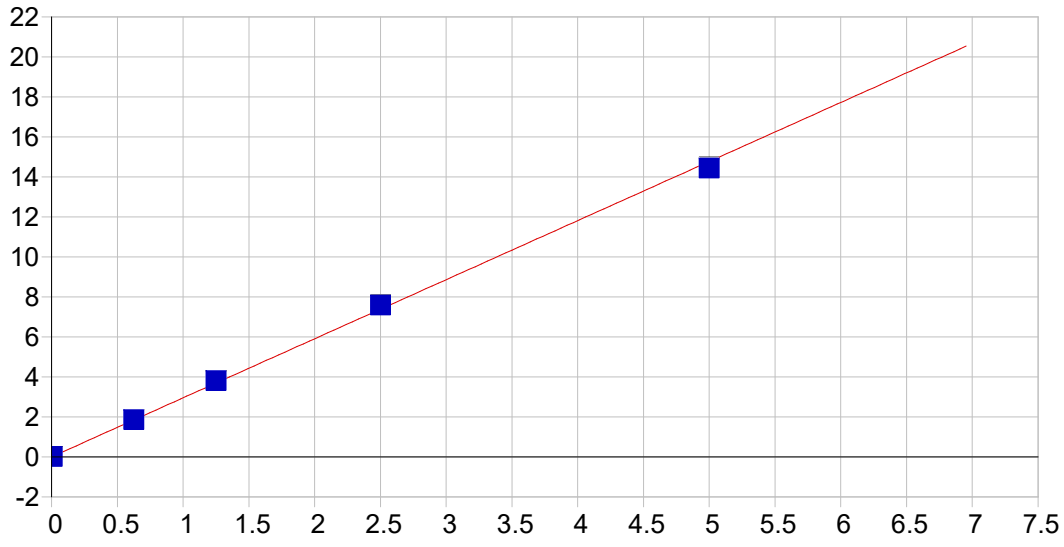
Be 234.861 {144}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000054	Re-Slope:	1.000000
A1 (Gain):	3.982281	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999731	Status:	OK.
Std Error of Est:	0.000345		
Predicted MDL:	0.000087		
Predicted MQL:	0.000290		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00006	.000	1
S1	.00500	.00539	.000	7.77	.02138	.000	1
S3	.25000	.26000	.010	4.00	1.0308	.010	1
S4	.50000	.50219	.002	.437	1.9908	.013	1
S5	1.0000	.98198	-.018	-1.80	3.8925	.022	1
S2	.12500	.13045	.005	4.36	.51721	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



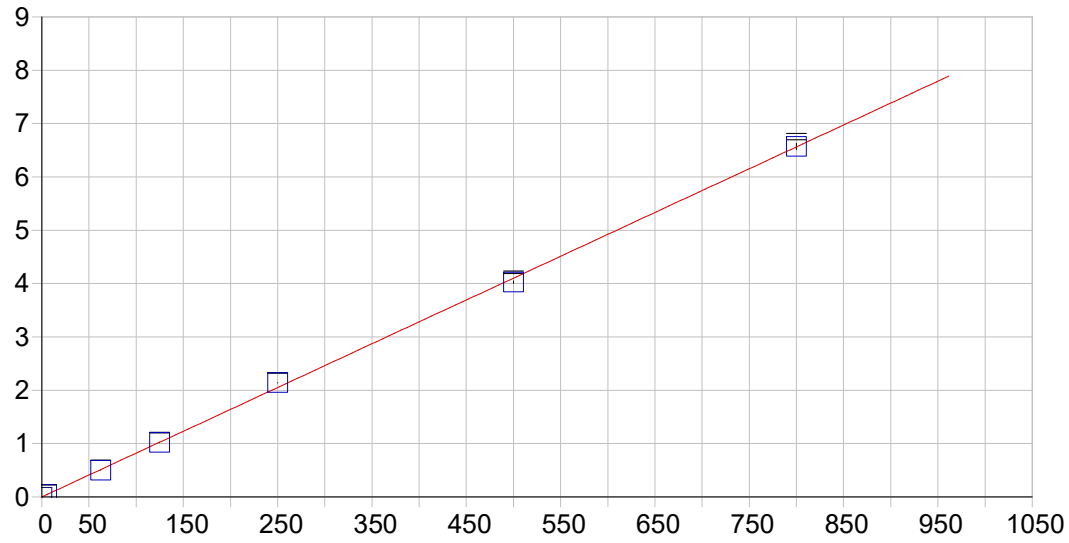
Cd 214.438 {457}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000063	Re-Slope:	1.000000
A1 (Gain):	2.953844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.000607		
Predicted MDL:	0.000076		
Predicted MQL:	0.000252		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00006	.000	1
S1	.00500	.00509	.000	1.71	.01509	.000	1
S3	1.2500	1.2896	.040	3.17	3.8166	.011	1
S4	2.5000	2.5669	.067	2.68	7.5970	.003	1
S5	5.0000	4.8874	-.113	-2.25	14.466	.030	1
S2	.62500	.63100	.006	.959	1.8676	.009	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



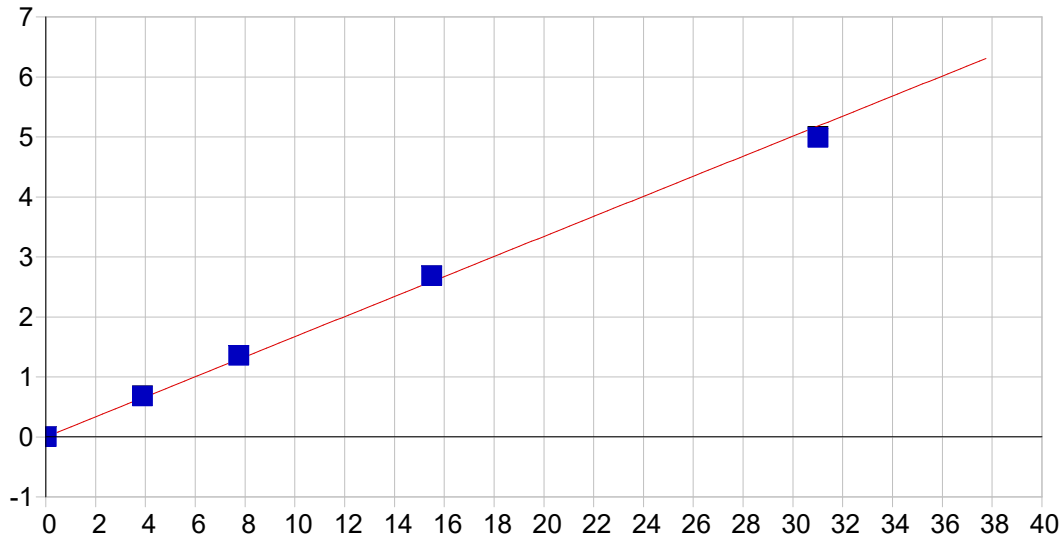
Ca 373.690 { 90}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000065	Re-Slope:	1.000000
A1 (Gain):	0.008204	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999802	Status:	OK.
Std Error of Est:	0.000570		
Predicted MDL:	0.009557		
Predicted MQL:	0.031858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	.00007	.000	1
S2	62.500	60.794	-1.71	-2.73	.49884	.003	1
S3	125.00	124.29	-.711	-.569	1.0198	.005	1
S4	250.00	260.76	10.8	4.31	2.1394	.004	1
S5	500.00	490.68	-9.32	-1.86	4.0257	.024	1
S1	5.0000	4.9588	-.041	-.825	.04075	.000	1
S6	800.00	801.02	1.02	.127	6.5718	.059	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



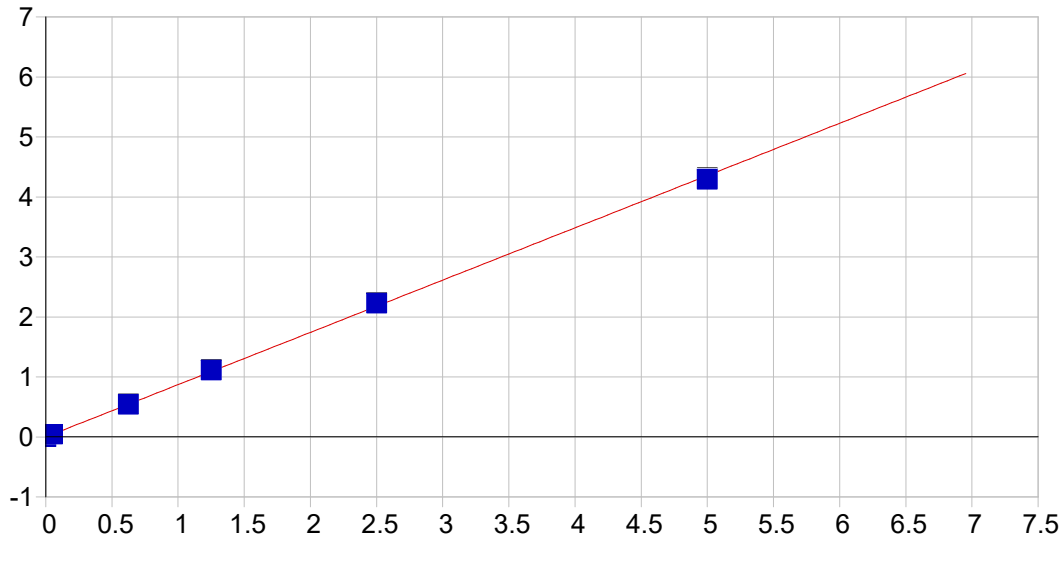
Cr 267.716 {126}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000036	Re-Slope:	1.000000
A1 (Gain):	0.167061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999236	Status:	OK.
Std Error of Est:	0.000193		
Predicted MDL:	0.000440		
Predicted MQL:	0.001466		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00004	.000	1
S1	.01000	.01107	.001	10.7	.00181	.000	1
S3	7.7500	8.1120	.362	4.67	1.3555	.001	1
S4	15.500	16.069	.569	3.67	2.6851	.004	1
S5	31.000	29.871	-1.13	-3.64	4.9916	.013	1
S2	3.8750	4.0715	.196	5.07	.68031	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



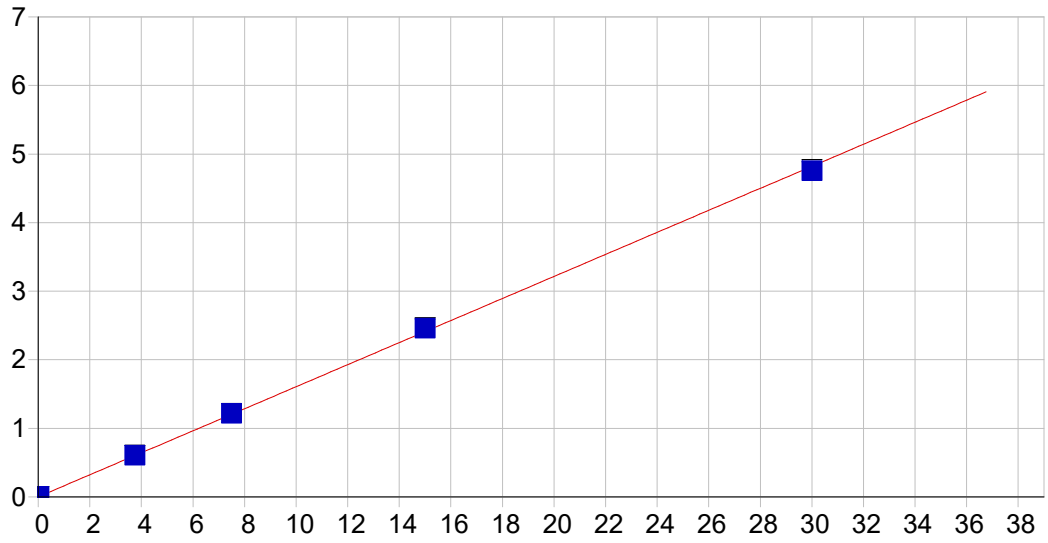
Co 228.616 {448}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000158	Re-Slope:	1.000000
A1 (Gain):	0.871145	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999851	Status:	OK.
Std Error of Est:	0.000401		
Predicted MDL:	0.000276		
Predicted MQL:	0.000919		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00016	.000	1
S1	.05000	.05034	.000	.688	.04386	.000	1
S3	1.2500	1.2736	.024	1.89	1.1135	.002	1
S4	2.5000	2.5546	.055	2.18	2.2335	.004	1
S5	5.0000	4.9230	-.077	-1.54	4.3050	.010	1
S2	.62500	.62351	-.001	-.239	.54508	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



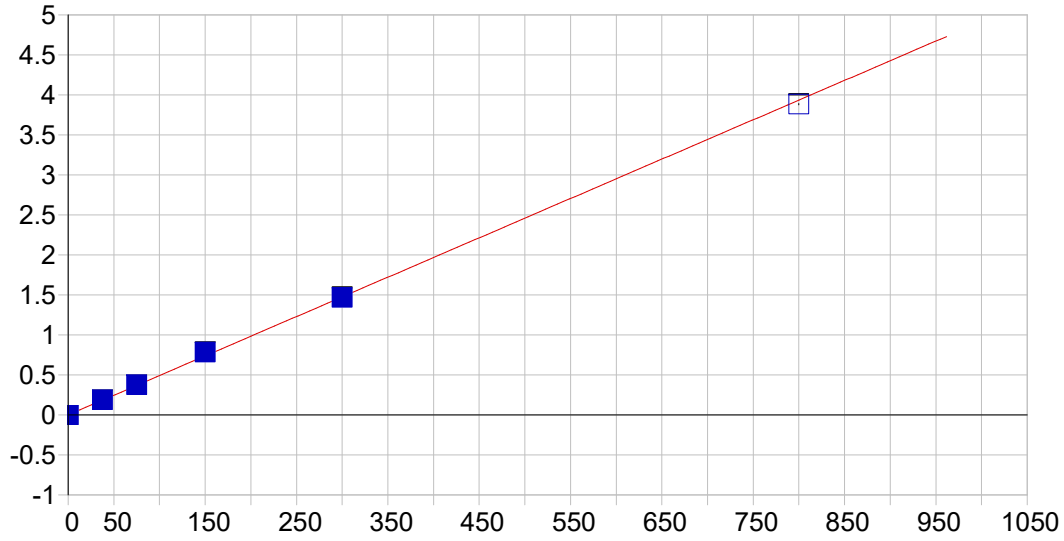
Cu 324.754 {104}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000438	Re-Slope:	1.000000
A1 (Gain):	0.160711	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999886	Status:	OK.
Std Error of Est:	0.000111		
Predicted MDL:	0.002465		
Predicted MQL:	0.008217		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00044	.000	1
S1	.02500	.02894	.004	15.8	.00509	.000	1
S3	7.5000	7.5691	.069	.922	1.2168	.003	1
S4	15.000	15.300	.300	2.00	2.4590	.011	1
S5	30.000	29.600	-.400	-1.33	4.7570	.015	1
S2	3.7500	3.7778	.028	.743	.60752	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



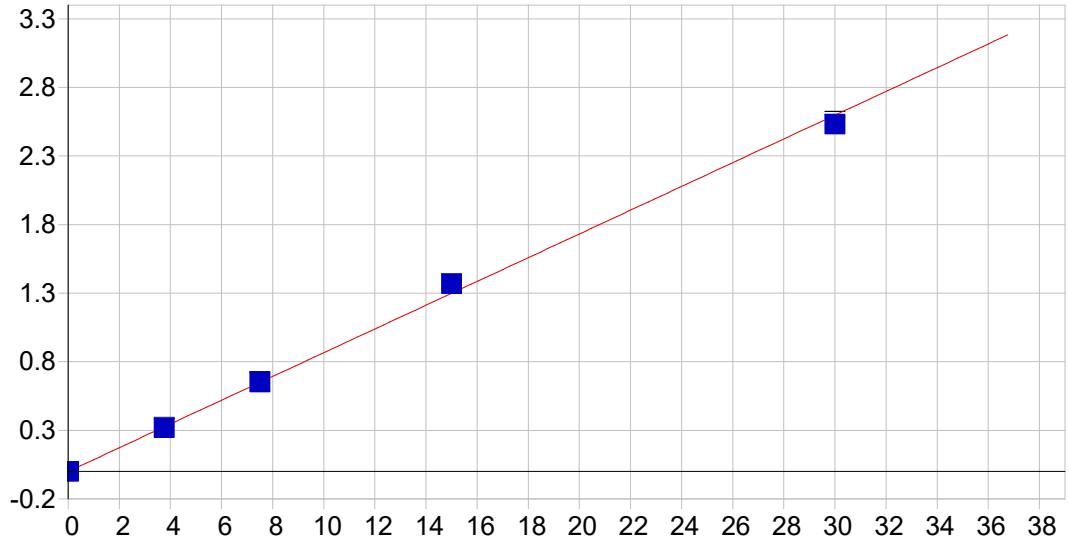
Fe 259.837 {130}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000012	Re-Slope:	1.000000
A1 (Gain):	0.004919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000052		
Predicted MDL:	0.006885		
Predicted MQL:	0.022949		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	-.00001	.000	1
S1	.10000	.10825	.008	8.25	.00051	.000	1
S3	75.000	76.825	1.82	2.43	.37750	.002	1
S4	150.00	159.47	9.47	6.32	.78367	.003	1
S5	300.00	298.59	-1.41	-.471	1.4672	.006	1
S2	37.500	37.897	.397	1.06	.18621	.001	1
S6	800.00	789.72	-10.3	-1.29	3.8845	.009	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



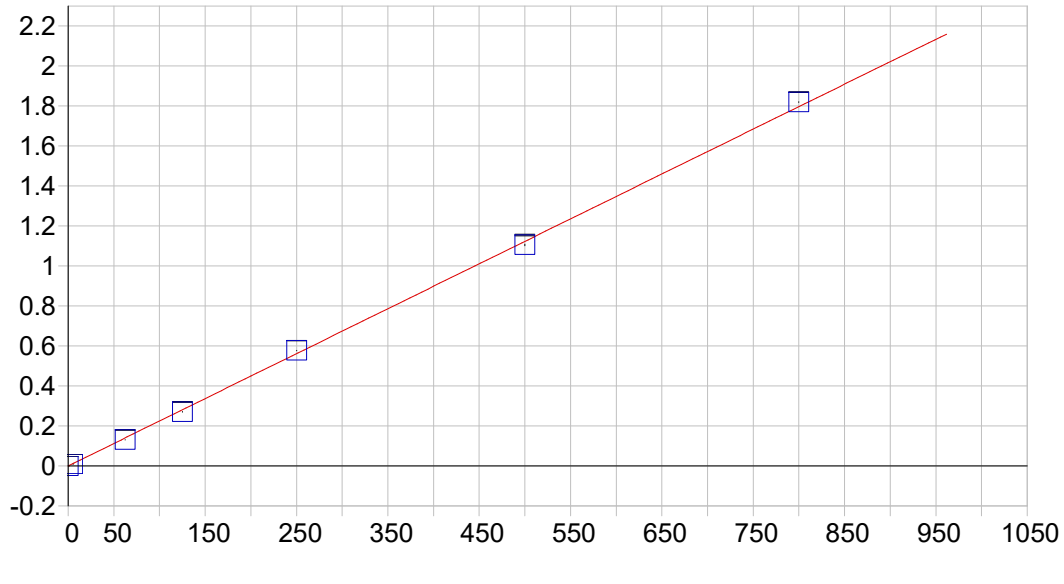
Mn 257.610 {131}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000016	Re-Slope:	1.000000
A1 (Gain):	0.086598	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999440	Status:	OK.
Std Error of Est:	0.000103		
Predicted MDL:	0.000369		
Predicted MQL:	0.001230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00002	.000	1
S1	.01500	.01547	.000	3.16	.00132	.000	1
S3	7.5000	7.5147	.015	.196	.65029	.003	1
S4	15.000	15.803	.803	5.35	1.3676	.002	1
S5	30.000	29.249	-.751	-2.50	2.5311	.021	1
S2	3.7500	3.6835	-.067	-1.77	.31874	.003	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



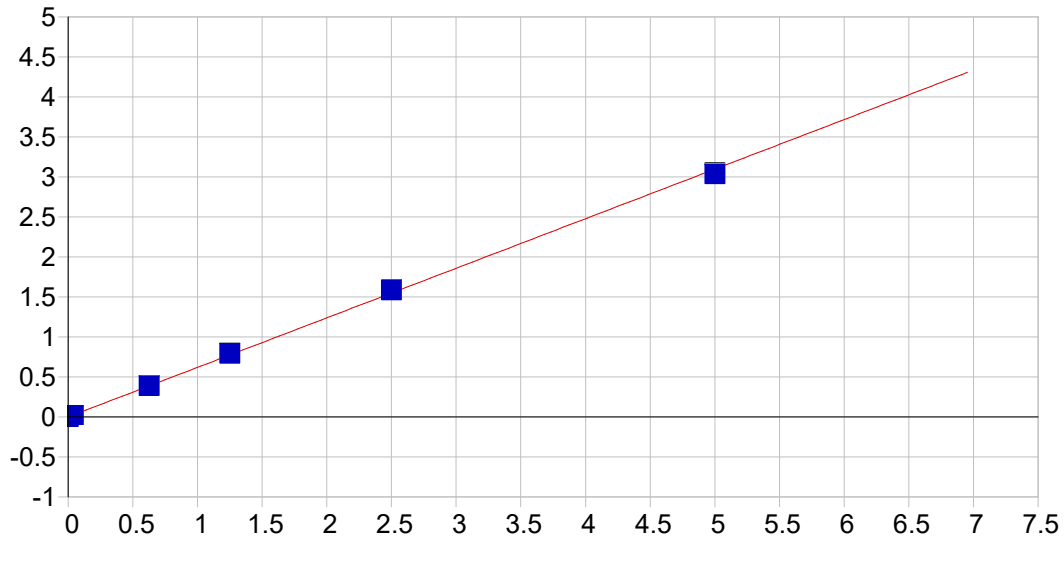
Mg 279.079 {121}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000010	Re-Slope:	1.000000
A1 (Gain):	0.002246	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999724	Status:	OK.
Std Error of Est:	0.000184		
Predicted MDL:	0.018267		
Predicted MQL:	0.060889		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00089	.001	.000	-.00001	.000	1
S2	62.500	58.187	-4.31	-6.90	.13070	.000	1
S3	125.00	120.49	-4.51	-3.61	.27065	.001	1
S4	250.00	257.07	7.07	2.83	.57746	.001	1
S5	500.00	492.11	-7.89	-1.58	1.1054	.004	1
S1	5.0000	4.5058	-.494	-9.88	.01011	.000	1
S6	800.00	810.13	10.1	1.27	1.8198	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



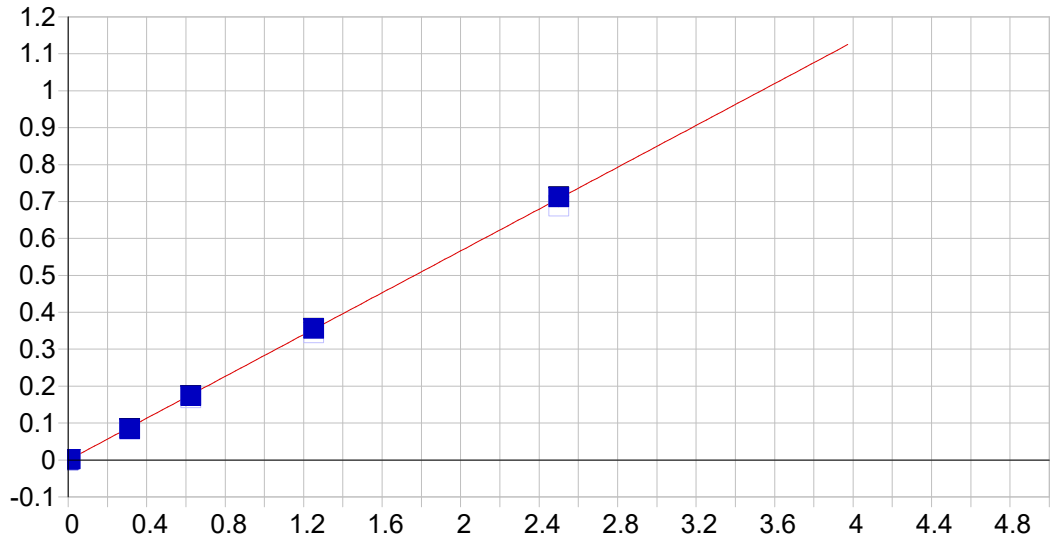
Ni 231.604 {446}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000172	Re-Slope:	1.000000
A1 (Gain):	0.619398	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999783	Status:	OK.
Std Error of Est:	0.000307		
Predicted MDL:	0.000433		
Predicted MQL:	0.001442		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00017	.000	1
S1	.04000	.04055	.001	1.37	.02497	.000	1
S3	1.2500	1.2818	.032	2.54	.79558	.002	1
S4	2.5000	2.5594	.059	2.38	1.5887	.002	1
S5	5.0000	4.9039	-.096	-1.92	3.0445	.008	1
S2	.62500	.62938	.004	.701	.39057	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



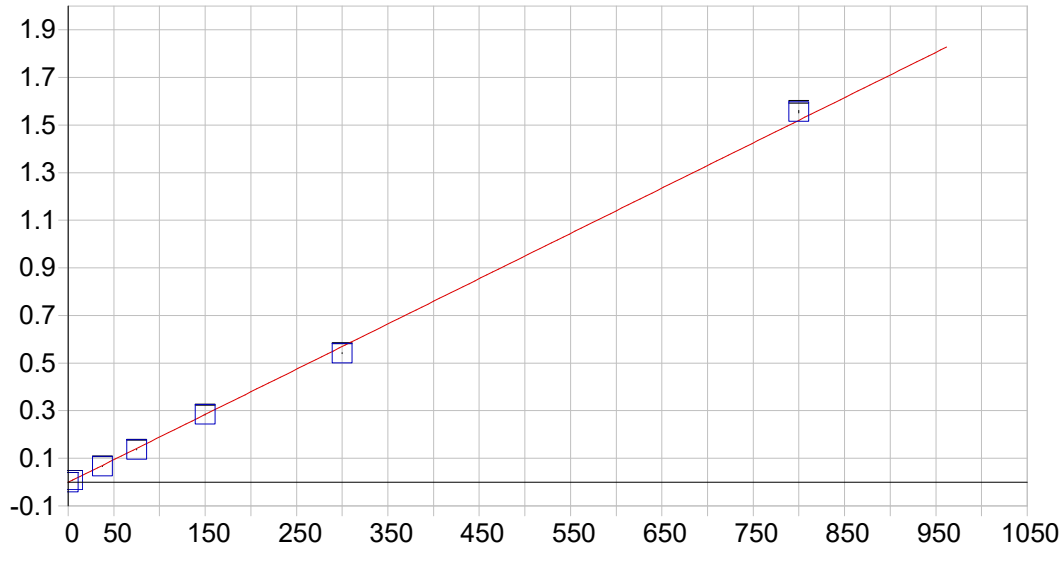
Ag 328.068 {103}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000268	Re-Slope:	1.000000
A1 (Gain):	0.283222	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.000416		
Predicted MQL:	0.001386		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00027	.000	1
S1	.01000	.01018	.000	1.76	.00259	.000	1
S3	.62500	.61447	-.011	-1.69	.16753	.000	1
S4	1.2500	1.2574	.007	.589	.34337	.001	1
S5	2.5000	2.5146	.015	.586	.68698	.001	1
S2	.31250	.30086	-.012	-3.73	.08182	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



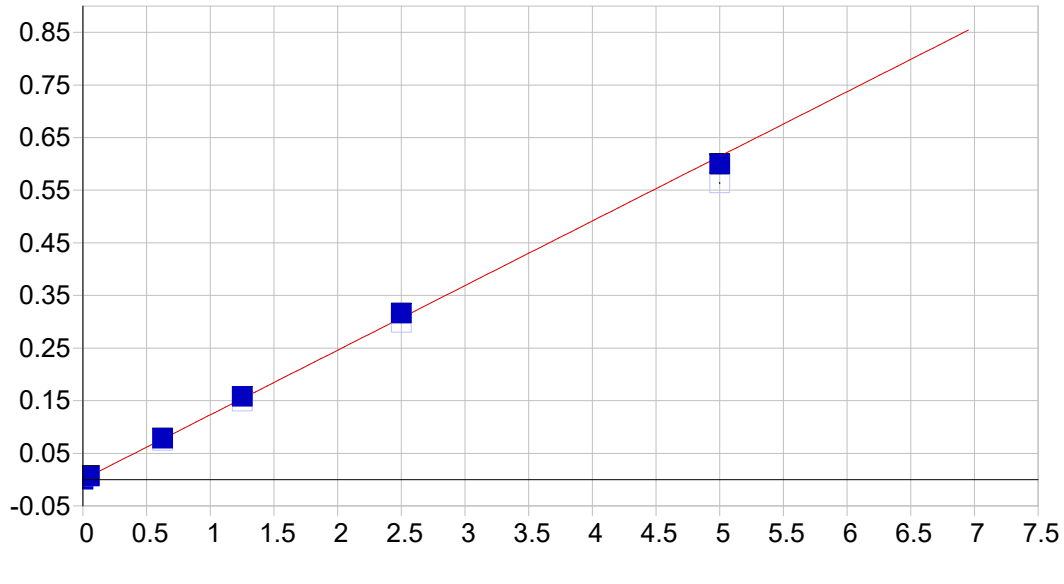
Na 818.326 { 41}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000984	Re-Slope:	1.000000
A1 (Gain):	0.001902	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999508	Status:	OK.
Std Error of Est:	0.000185		
Predicted MDL:	0.510804		
Predicted MQL:	1.702679		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00065	.001	.000	-.00098	.001	1
S2	37.500	35.654	-1.85	-4.92	.06681	.001	1
S3	75.000	72.371	-2.63	-3.51	.13663	.001	1
S4	150.00	150.05	.054	.036	.28435	.002	1
S5	300.00	285.44	-14.6	-4.85	.54179	.002	1
S1	5.0000	4.8923	-.108	-2.15	.00832	.001	1
S6	800.00	819.09	19.1	2.39	1.5565	.005	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



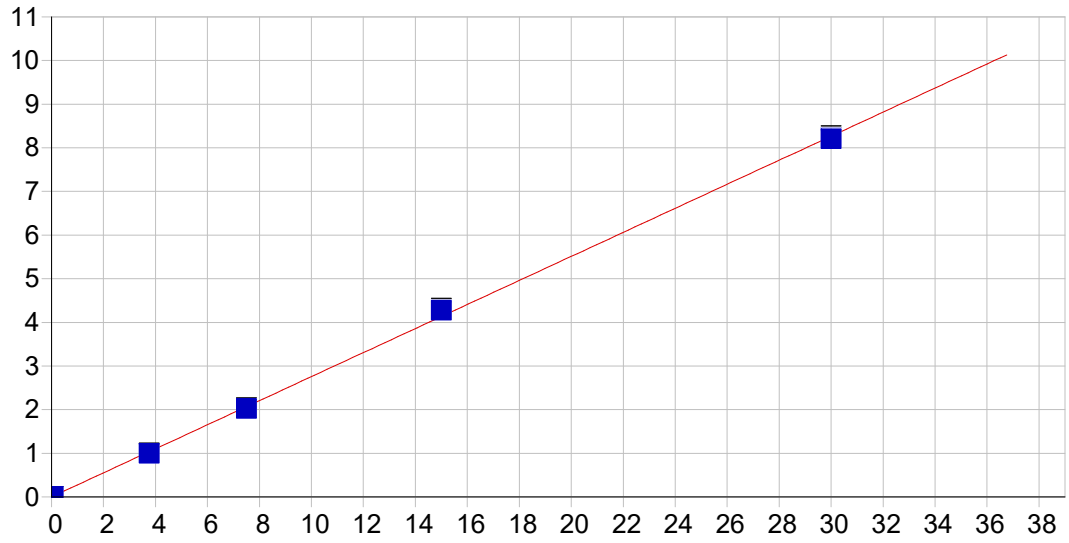
V 292.402 {115}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000262	Re-Slope:	1.000000
A1 (Gain):	0.122831	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999624	Status:	OK.
Std Error of Est:	0.000084		
Predicted MDL:	0.002404		
Predicted MQL:	0.008013		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00026	.001	1
S1	.05000	.05293	.003	5.85	.00675	.000	1
S3	1.2500	1.2826	.033	2.60	.14882	.000	1
S4	2.5000	2.5723	.072	2.89	.29827	.000	1
S5	5.0000	4.8793	-.121	-2.41	.56367	.001	1
S2	.62500	.63770	.013	2.03	.07410	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



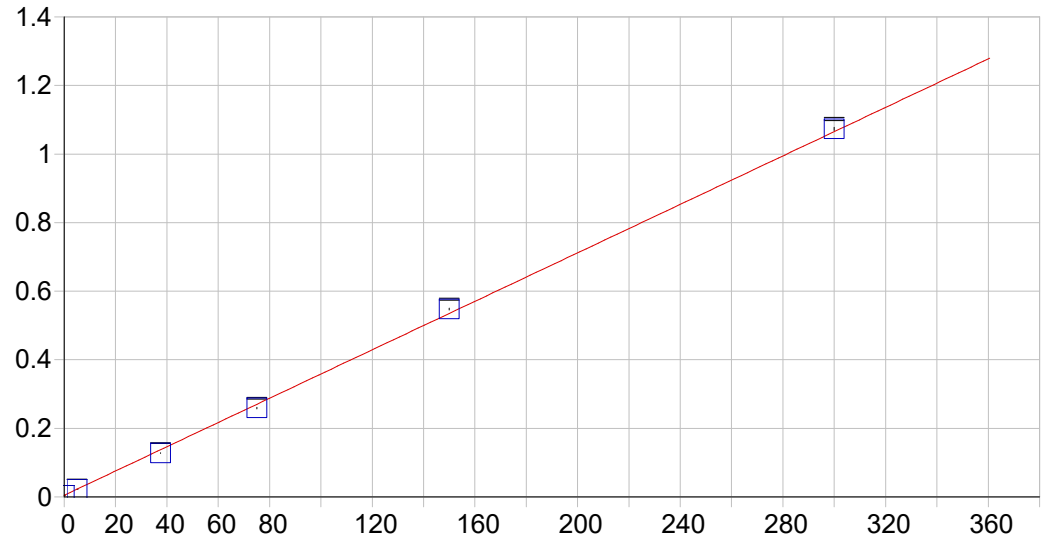
Zn 213.856 {158}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000409	Re-Slope:	1.000000
A1 (Gain):	0.275555	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999757	Status:	OK.
Std Error of Est:	0.000434		
Predicted MDL:	0.001852		
Predicted MQL:	0.006175		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00041	.000	1
S1	.06000	.06007	.000	.116	.01706	.000	1
S3	7.5000	7.3529	-.147	-1.96	2.0343	.009	1
S4	15.000	15.514	.514	3.43	4.2909	.034	1
S5	30.000	29.776	-.224	-.746	8.2365	.042	1
S2	3.7500	3.6069	-.143	-3.82	.99819	.010	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



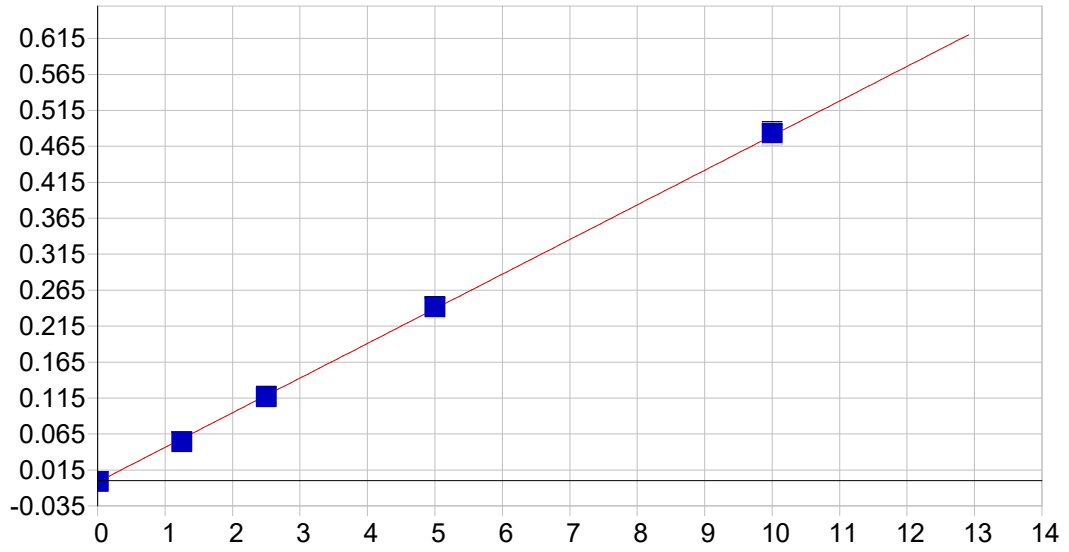
K 769.896 { 44}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004840	Re-Slope:	1.000000
A1 (Gain):	0.003535	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999618	Status:	OK.
Std Error of Est:	0.000202		
Predicted MDL:	0.052731		
Predicted MQL:	0.175769		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00037	.000	.000	.00484	.000	1
S2	37.500	34.717	-2.78	-7.42	.12757	.001	1
S3	75.000	71.914	-3.09	-4.11	.25907	.002	1
S4	150.00	153.52	3.52	2.35	.54756	.003	1
S5	300.00	302.30	2.30	.766	1.0735	.005	1
S1	5.0000	5.0527	.053	1.05	.02270	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

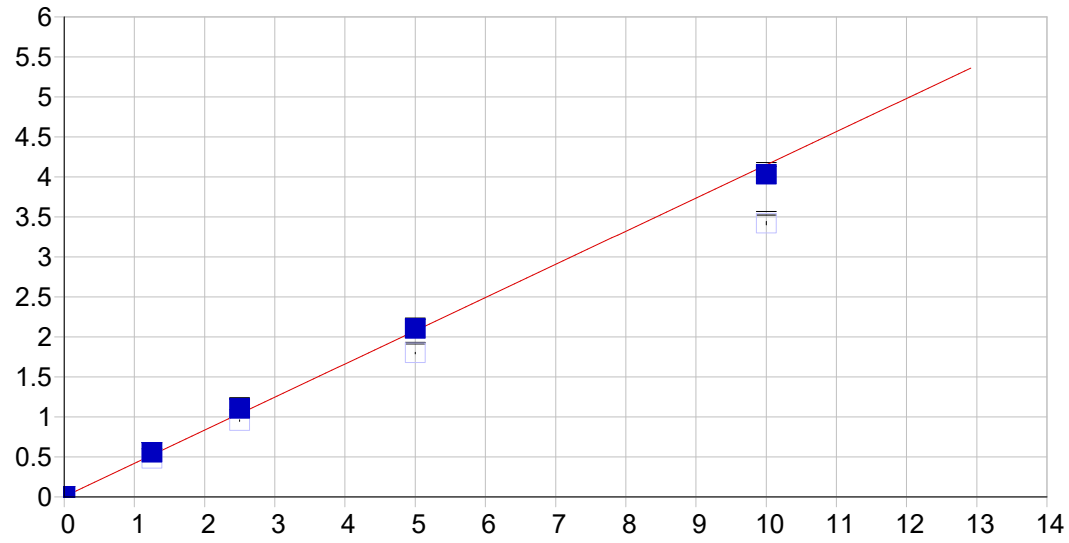


P 177.495 {490}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001764	Re-Slope:	1.000000
A1 (Gain):	0.048162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999767	Status:	OK.
Std Error of Est:	0.000017		
Predicted MDL:	0.002357		
Predicted MQL:	0.007858		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00176	.000	1
S1	.01000	.01034	.000	3.42	-.00127	.000	1
S3	2.5000	2.4601	-.040	-1.60	.11586	.001	1
S4	5.0000	5.0580	.058	1.16	.24012	.000	1
S5	10.000	10.074	.074	.736	.47996	.002	1
S2	1.2500	1.1580	-.092	-7.36	.05358	.000	1



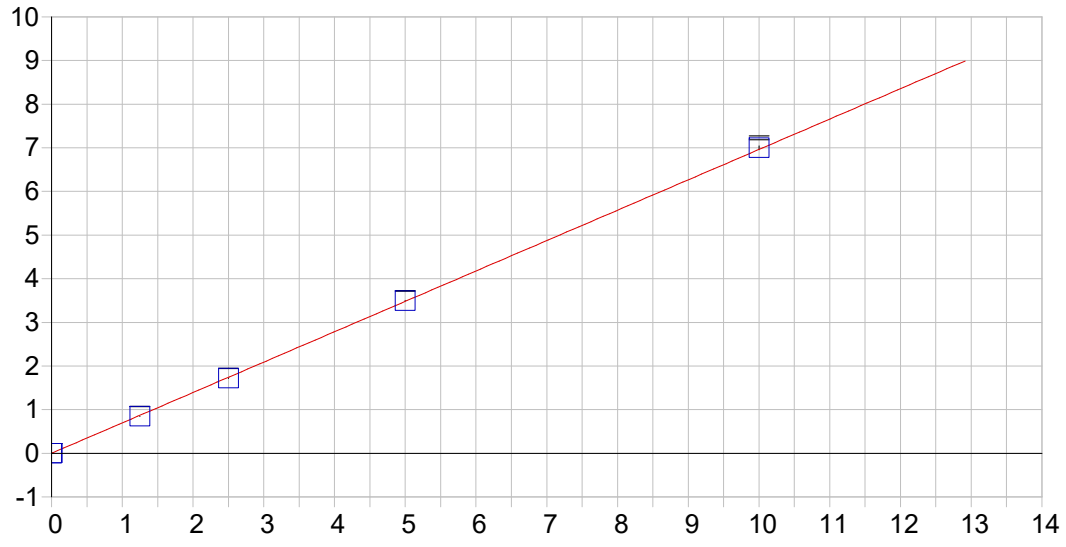
B 249.678 {135}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003911	Re-Slope:	1.000000
A1 (Gain):	0.414630	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998500	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	0.000887		
Predicted MQL:	0.002957		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00392	.000	1
S1	.01000	-.00303	-.013	-130.	.00244	.000	1
S3	2.5000	2.6578	.158	6.31	.95344	.010	1
S4	5.0000	5.0639	.064	1.28	1.7986	.009	1
S5	10.000	9.7135	-.287	-2.87	3.4215	.023	1
S2	1.2500	1.3293	.079	6.35	.47885	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



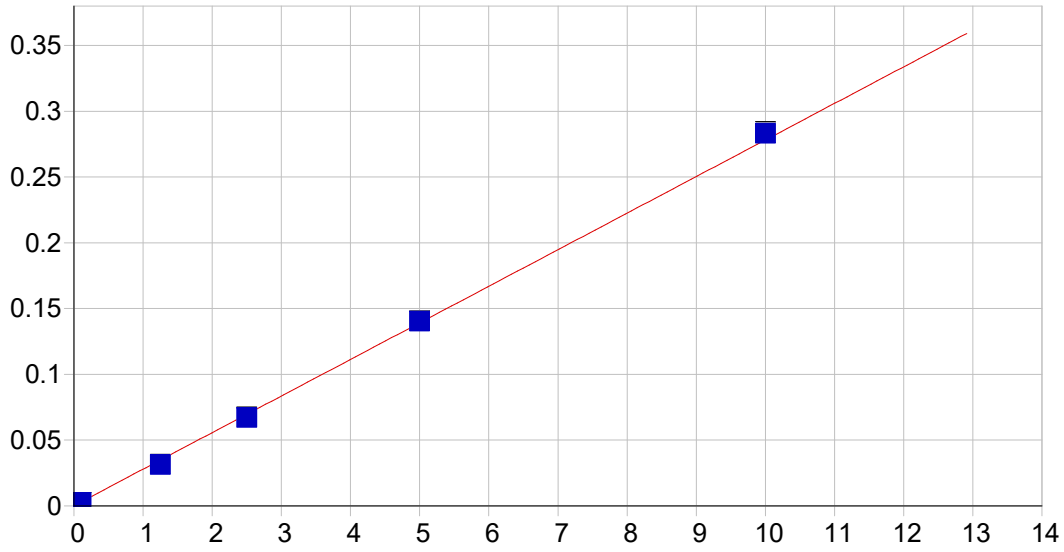
Mo 202.030 {467}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000049	Re-Slope:	1.000000
A1 (Gain):	0.696250	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000116		
Predicted MDL:	0.000306		
Predicted MQL:	0.001022		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00005	.000	1
S1	.01000	.00998	-.000	-.167	.00700	.000	1
S3	2.5000	2.4663	-.034	-1.35	1.7172	.007	1
S4	5.0000	5.0169	.017	.337	3.4930	.007	1
S5	10.000	10.053	.053	.532	6.9996	.042	1
S2	1.2500	1.2136	-.036	-2.91	.84505	.003	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



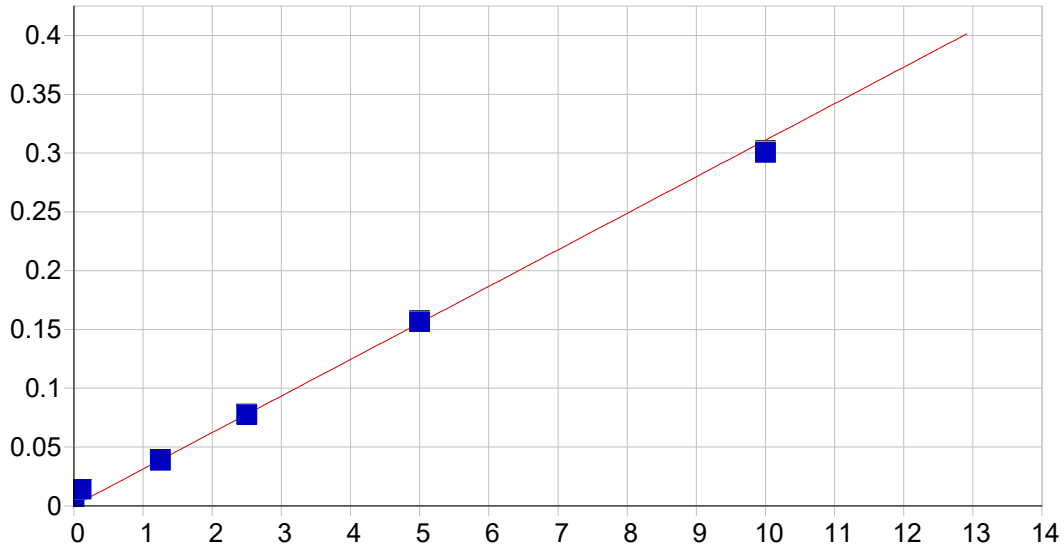
S 182.034 {485}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000134	Re-Slope:	1.000000
A1 (Gain):	0.027805	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999452	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.004036		
Predicted MQL:	0.013454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00013	.000	1
S1	.10000	.08927	-.011	-10.7	.00262	.000	1
S3	2.5000	2.4089	-.091	-3.64	.06720	.000	1
S4	5.0000	5.0462	.046	.925	.14062	.000	1
S5	10.000	10.181	.181	1.81	.28356	.001	1
S2	1.2500	1.1248	-.125	-10.0	.03145	.000	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



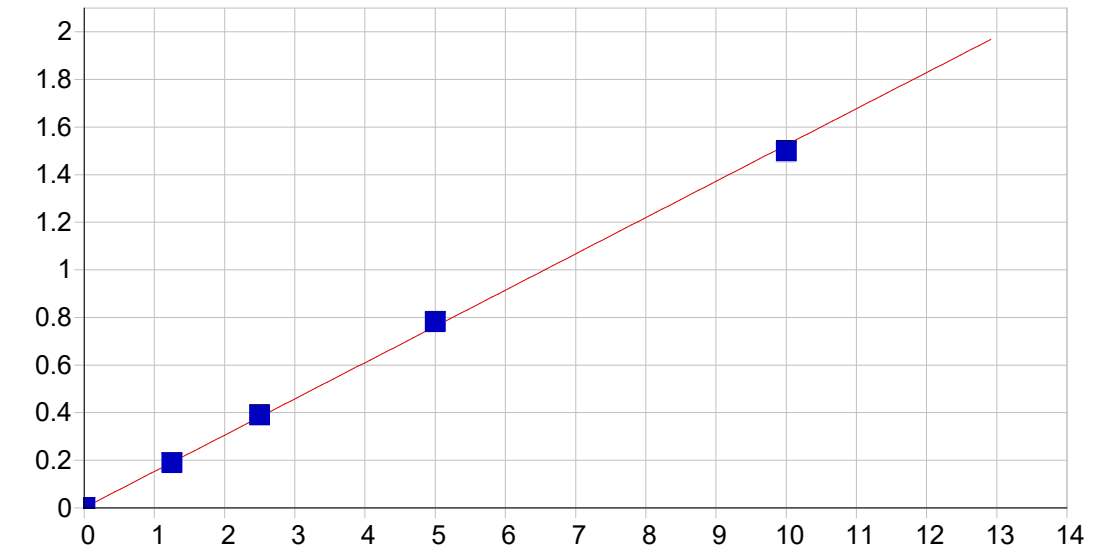
Si 251.611 {134}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.031064	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.969453	Status:	OK.
Std Error of Est:	0.000419		
Predicted MDL:	0.006350		
Predicted MQL:	0.021165		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00034	-.000	.000	.00026	.000	1
S1	.10000	.44645	.346	346.	.01414	.000	1
S3	2.5000	2.4856	-.014	-.575	.07771	.000	1
S4	5.0000	5.0294	.029	.588	.15696	.001	1
S5	10.000	9.6572	-.343	-3.43	.30119	.001	1
S2	1.2500	1.2323	-.018	-1.42	.03866	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

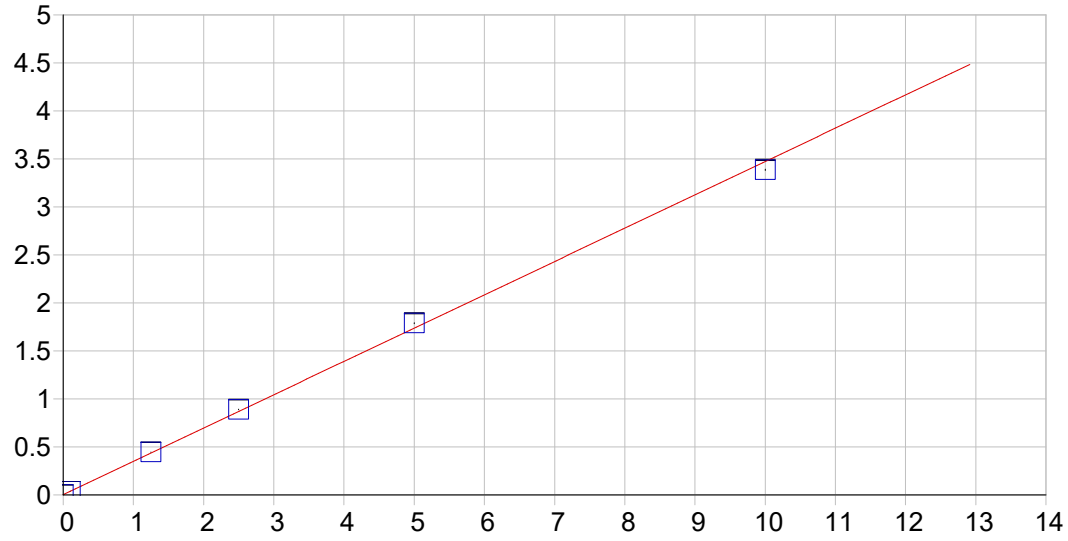


Sn 189.989 {478}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000752	Re-Slope:	1.000000
A1 (Gain):	0.152360	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999798	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.000849		
Predicted MQL:	0.002829		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00075	.000	1
S1	.00700	.00654	-.000	-6.59	.00170	.000	1
S3	2.5000	2.5527	.053	2.11	.38851	.001	1
S4	5.0000	5.1298	.130	2.60	.77997	.001	1
S5	10.000	9.8295	-.171	-1.71	1.4937	.003	1
S2	1.2500	1.2384	-.012	-.927	.18885	.001	1



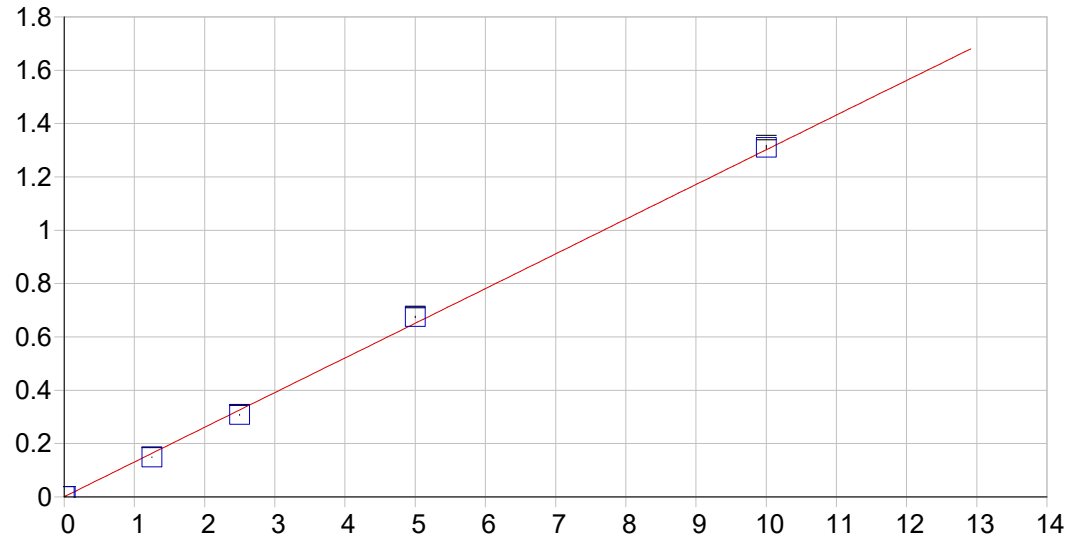
Ti 336.121 {100}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001888	Re-Slope:	1.000000
A1 (Gain):	0.347057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999652	Status:	OK.
Std Error of Est:	0.000487		
Predicted MDL:	0.001122		
Predicted MQL:	0.003741		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00188	.000	1
S1	.10000	.10590	.006	5.90	.03864	.000	1
S3	2.5000	2.5594	.059	2.38	.89014	.003	1
S4	5.0000	5.1509	.151	3.02	1.7895	.005	1
S5	10.000	9.7535	-.246	-2.46	3.3869	.006	1
S2	1.2500	1.2803	.030	2.42	.44621	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



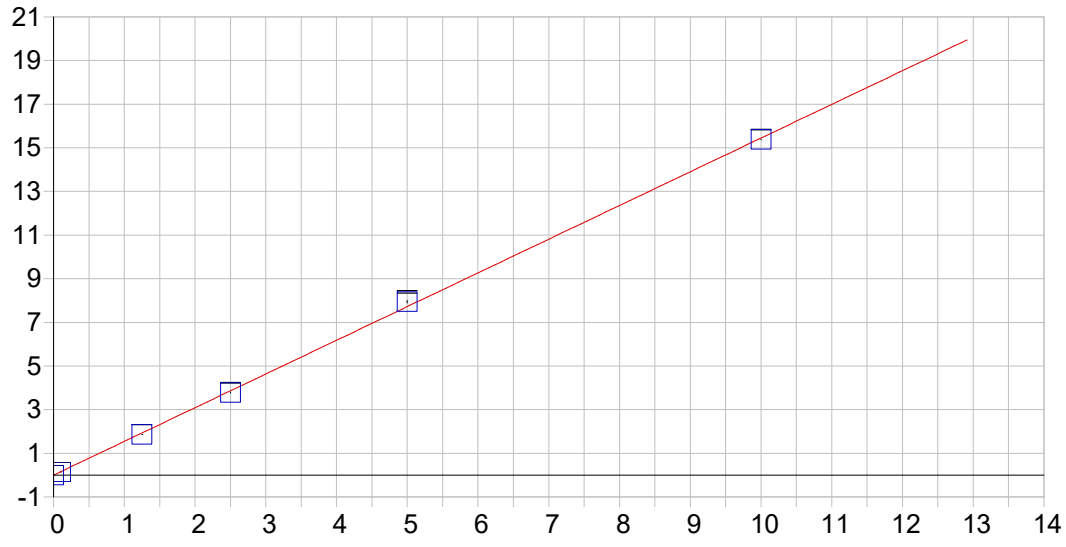
Li 670.784 { 50}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000790	Re-Slope:	1.000000
A1 (Gain):	0.130081	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999319	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.001443		
Predicted MQL:	0.004811		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00079	.000	1
S5	10.000	10.068	.068	.681	1.3105	.008	1
S4	5.0000	5.1862	.186	3.72	.67542	.003	1
S3	2.5000	2.3602	-.140	-5.59	.30781	.002	1
S1	.01500	.01396	-.001	-6.93	.00261	.000	1
S2	1.2500	1.1365	-.113	-9.08	.14863	.002	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



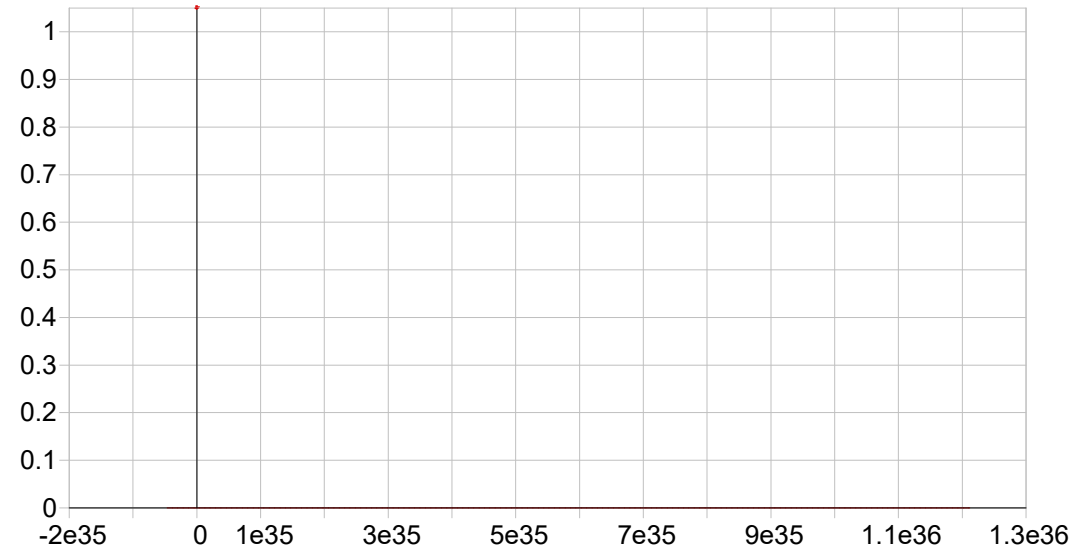
Sr 407.771 { 83}

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	1.544555	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999811	Status:	OK.
Std Error of Est:	0.001594		
Predicted MDL:	0.000068		
Predicted MQL:	0.000226		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00005	.000	1
S1	.10000	.09549	-.005	-4.51	.14753	.001	1
S3	2.5000	2.4453	-.055	-2.19	3.7769	.014	1
S4	5.0000	5.1430	.143	2.86	7.9436	.057	1
S5	10.000	9.9589	-.041	-.411	15.382	.016	1
S2	1.2500	1.2074	-.043	-3.41	1.8649	.001	1

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

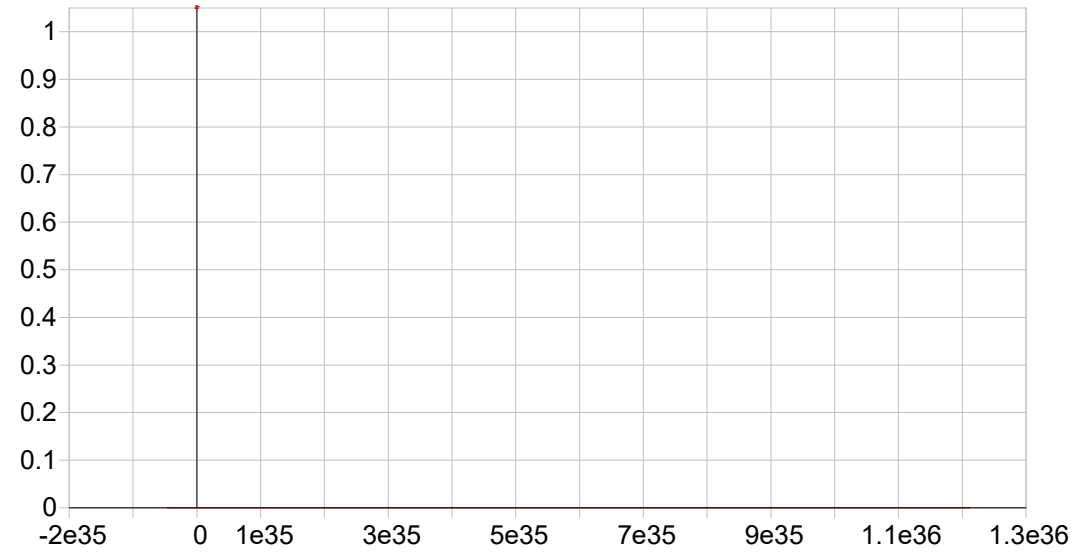


Y 224.306 {450}*

Date of Fit:	2/2/2025 15:22:59	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 360.073 { 94}*

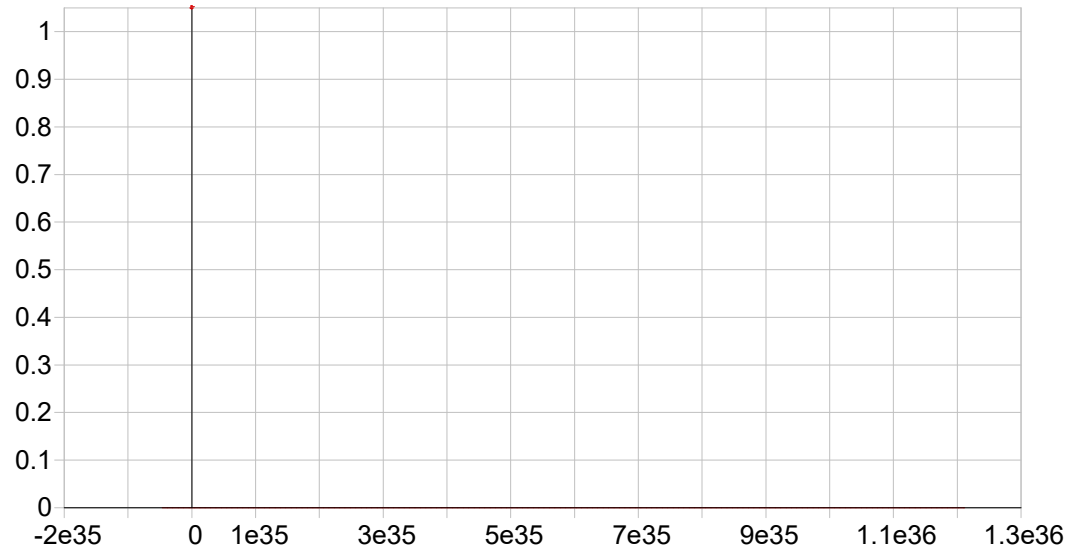
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

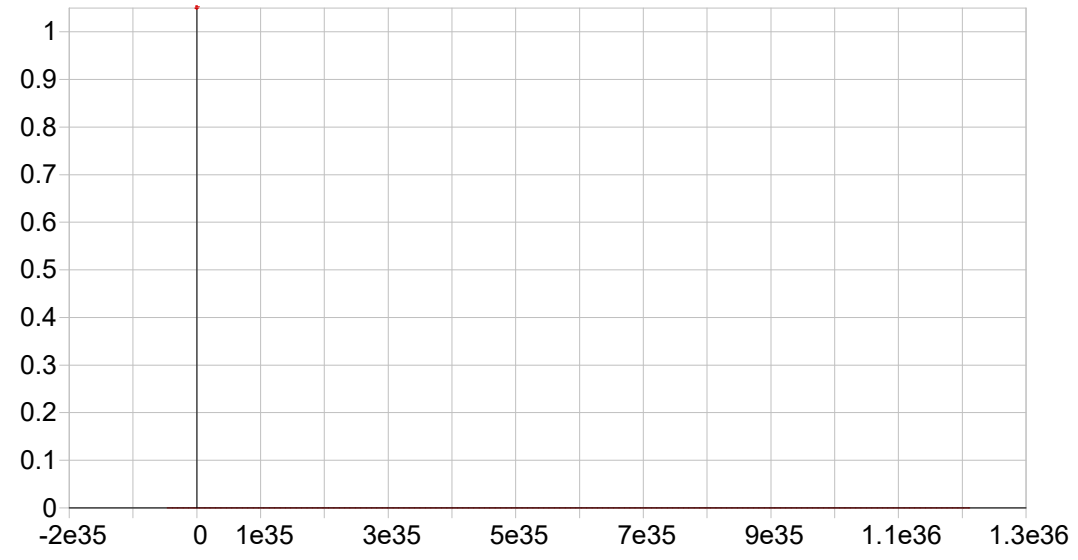


Y 371.030 { 91}*

Date of Fit:	<not fit>		Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):		0.000000		Re-Slope:	1.000000	
A1 (Gain):		0.000000		Y-int:	0.000000	
A2 (Curvature):		0.000000				
n (Exponent):		1.000000				
Correlation:		0.000000		Status:	Warning	Zero Gain
Std Error of Est:		0.000000				
Predicted MDL:		n/a				
Predicted MQL:		n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

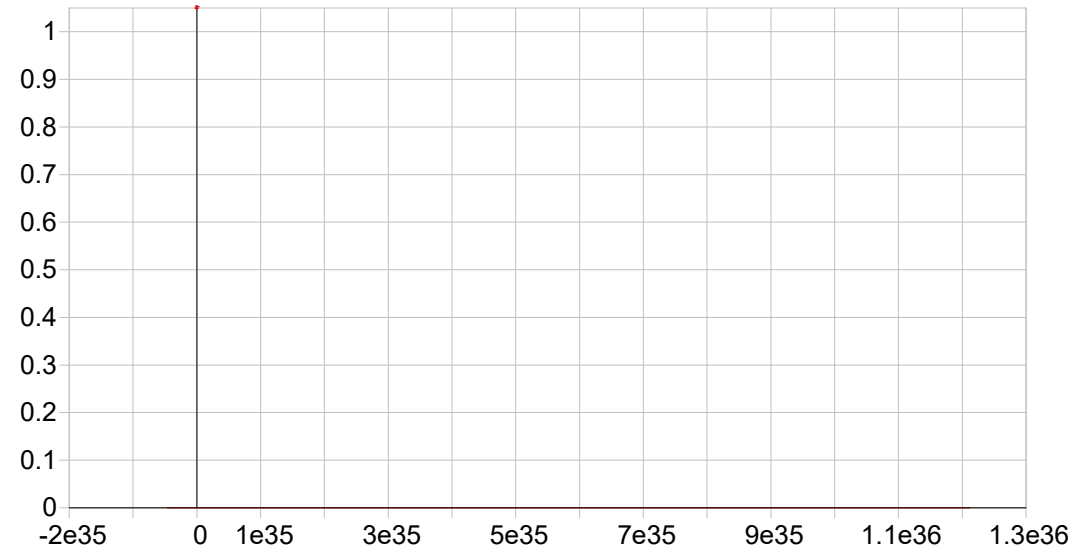
Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4



Y 224.306 {150}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S0 Acquired: 2/2/2025 10:59:42 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00007**	**.00027**	**-.00002**	**.00039**	**.00023**	**-.00002**	**.00641**	**-.00006**
Stddev	.00005	.00007	.00016	.00003	.00018	.00003	.00037	.00012
%RSD	71.838	26.784	718.75	6.9116	81.732	173.31	5.7727	216.03
#1	-.00003	.00022	-.00018	.00038	.00019	.00001	.00600	-.00004
#2	-.00012	.00035	-.00003	.00037	.00006	-.00006	.00654	-.00019
#3	-.00005	.00024	.00014	.00042	.00043	-.00001	.00670	.00006

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.00007**	**-.00004**	**-.00016**	**.00044**	**-.00001**	**-.00002**	**-.00001**
Stddev	.00014	.00005	.00006	.00022	.00024	.00001	.00004	.00002
%RSD	227.51	74.526	179.36	136.33	54.317	48.381	262.62	311.81
#1	-.00005	.00006	-.00010	-.00033	.00058	-.00001	-.00001	-.00003
#2	.00022	.00012	.00003	-.00023	.00057	-.00002	.00002	.00001
#3	.00001	.00002	-.00004	.00008	.00016	-.00002	-.00006	.00000

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00017**	**-.00027**	**-.00098**	**.00026**	**.00041**	**.00484**	**-.00176**	**.00392**
Stddev	.00020	.00004	.00090	.00054	.00034	.00010	.00012	.00019
%RSD	117.21	14.952	91.993	208.00	82.439	2.1044	6.8856	4.7873
#1	-.00038	-.00031	-.00042	-.00014	.00080	.00494	-.00189	.00383
#2	-.00017	-.00026	-.00050	.00005	.00018	.00485	-.00165	.00413
#3	.00003	-.00023	-.00203	.00088	.00025	.00474	-.00176	.00379

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00005**	**.00013**	**.00026**	**.00075**	**.00188**	**.00079**	**.00005**
Stddev	.00005	.00003	.00022	.00004	.00046	.00011	.00006
%RSD	104.27	24.245	85.140	5.9267	24.514	14.035	125.66
#1	-.00000	.00011	.00009	.00079	.00141	.00072	.00004
#2	.00005	.00012	.00050	.00076	.00233	.00073	-.00001
#3	.00010	.00017	.00018	.00071	.00191	.00092	.00011

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S0 Acquired: 2/2/2025 10:59:42 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.5	72695.	11101.	2471.9	4477.8
Stddev	11.6	203.	44.	16.6	15.8
%RSD	.31143	.27914	.39386	.66969	.35275
#1	3715.3	72488.	11056.	2455.6	4459.6
#2	3733.1	72705.	11104.	2488.7	4487.9
#3	3737.2	72893.	11143.	2471.4	4485.8

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S1 Acquired: 2/2/2025 11:03:56 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00041**	**.00168**	**.00226**	**.00244**	**.00843**	**.00215**	**.07863**	**.02138**
Stddev	.00012	.00015	.00029	.00008	.00021	.00017	.00006	.00021
%RSD	29.276	9.1422	12.904	3.4680	2.4499	7.7149	.07265	.99996
#1	.00034	.00158	.00213	.00238	.00861	.00228	.07862	.02161
#2	.00055	.00186	.00206	.00253	.00821	.00222	.07870	.02135
#3	.00035	.00160	.00260	.00240	.00848	.00196	.07859	.02118

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01509**	**.04075**	**.00181**	**.04386**	**.00509**	**.00051**	**.00132**	**.01011**
Stddev	.00017	.00018	.00006	.00004	.00021	.00003	.00004	.00003
%RSD	1.1509	.44616	3.1425	.09427	4.1262	5.7120	2.8544	.28270
#1	.01528	.04062	.00188	.04391	.00521	.00054	.00129	.01008
#2	.01493	.04096	.00180	.04384	.00485	.00052	.00136	.01013
#3	.01507	.04067	.00177	.04385	.00521	.00048	.00132	.01012

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02497**	**.00259**	**.00832**	**.00675**	**.01706**	**.02270**	**-.00127**	**.00244**
Stddev	.00026	.00003	.00089	.00016	.00013	.00004	.00006	.00024
%RSD	1.0604	1.1254	10.696	2.4345	.78900	.17746	4.9801	9.9375
#1	.02517	.00257	.00887	.00687	.01711	.02268	-.00134	.00218
#2	.02467	.00259	.00880	.00681	.01716	.02268	-.00124	.00266
#3	.02507	.00263	.00729	.00656	.01691	.02275	-.00122	.00248

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00700**	**.00262**	**.01414**	**.00170**	**.03864**	**.00261**	**.14753**
Stddev	.00028	.00005	.00004	.00005	.00038	.00022	.00076
%RSD	4.0417	1.7859	.27444	2.6798	.98209	8.4421	.51454
#1	.00707	.00266	.01411	.00166	.03833	.00251	.14681
#2	.00669	.00257	.01412	.00170	.03852	.00245	.14832
#3	.00724	.00262	.01418	.00175	.03907	.00286	.14745

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S1 Acquired: 2/2/2025 11:03:56 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.5	72067.	12812.	2445.5	4417.0
Stddev	5.5	366.	75.	17.0	5.5
%RSD	.14753	.50721	.58818	.69559	.12470
#1	3725.7	71678.	12726.	2426.0	4422.8
#2	3723.4	72121.	12867.	2453.7	4416.2
#3	3715.3	72403.	12844.	2456.9	4411.8

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S2 Acquired: 2/2/2025 11:08:08 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06916**	**.07174**	**1.4908**	**.07526**	**.17570**	**.41559**	**.86859**	**.51721**
Stddev	.00037	.00127	.0042	.00035	.00094	.00255	.00822	.00167
%RSD	.53436	1.7738	.28255	.46781	.53684	.61311	.94609	.32208
#1	.06907	.07069	1.4883	.07495	.17476	.41660	.86675	.51590
#2	.06885	.07137	1.4885	.07519	.17570	.41749	.87757	.51664
#3	.06957	.07316	1.4957	.07564	.17665	.41270	.86145	.51908

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8676**	**.49884**	**.68031**	**.54508**	**.60752**	**.18621**	**.31874**	**.13070**
Stddev	.0094	.00282	.00117	.00216	.00049	.00054	.00263	.00028
%RSD	.50403	.56542	.17193	.39542	.08114	.29258	.82507	.21284
#1	1.8613	.49844	.68009	.54450	.60737	.18624	.31719	.13053
#2	1.8630	.50184	.68157	.54327	.60807	.18674	.32178	.13102
#3	1.8784	.49624	.67927	.54746	.60713	.18565	.31726	.13054

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.39057**	**.08182**	**.06681**	**.07410**	**.99819**	**.12757**	**.05358**	**.47885**
Stddev	.00145	.00018	.00115	.00048	.00983	.00086	.00032	.00162
%RSD	.37034	.21827	1.7265	.64840	.98440	.67513	.60261	.33738
#1	.39023	.08199	.06701	.07355	.98695	.12763	.05343	.47911
#2	.38933	.08185	.06786	.07434	1.0051	.12840	.05336	.47712
#3	.39216	.08163	.06557	.07441	1.0025	.12668	.05395	.48031

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.84505**	**.03145**	**.03866**	**.18885**	**.44621**	**.14863**	**1.8649**
Stddev	.00294	.00026	.00054	.00059	.00162	.00155	.0010
%RSD	.34768	.81146	1.3876	.31343	.36359	1.0431	.05637
#1	.84385	.03120	.03807	.18846	.44439	.14844	1.8642
#2	.84290	.03171	.03879	.18855	.44751	.15026	1.8661
#3	.84840	.03145	.03912	.18953	.44674	.14718	1.8644

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S2 Acquired: 2/2/2025 11:08:08 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3557.7	68716.	12473.	2312.8	4014.5
Stddev	5.5	207.	22.	3.8	8.0
%RSD	.15380	.30127	.17497	.16285	.19896
#1	3551.9	68655.	12493.	2315.4	4013.1
#2	3562.8	68547.	12476.	2308.4	4023.1
#3	3558.5	68947.	12449.	2314.5	4007.4

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S3 Acquired: 2/2/2025 11:12:05 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.14559	.14448	3.0577	.15670	.36735	.85950	1.7854	1.0308
Stddev	.00089	.00192	.0049	.00125	.00110	.00714	.0136	.0103
%RSD	.61035	1.3271	.15866	.79654	.30069	.83116	.75870	1.0006
#1	.14514	.14335	3.0575	.15691	.36739	.85284	1.7738	1.0394
#2	.14501	.14340	3.0531	.15536	.36623	.85860	1.7821	1.0337
#3	.14661	.14669	3.0627	.15783	.36844	.86705	1.8003	1.0194

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.8166	1.0198	1.3555	1.1135	1.2168	.37750	.65029	.27065
Stddev	.0108	.0052	.0014	.0023	.0029	.00241	.00285	.00122
%RSD	.28198	.50504	.10727	.20858	.23616	.63972	.43895	.45017
#1	3.8170	1.0150	1.3569	1.1132	1.2200	.37548	.64791	.26945
#2	3.8056	1.0190	1.3540	1.1113	1.2145	.37686	.64952	.27062
#3	3.8271	1.0253	1.3555	1.1159	1.2158	.38018	.65346	.27188

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.79558	.16753	.13663	.14882	2.0343	.25907	.11586	.95344
Stddev	.00235	.00022	.00073	.00023	.0091	.00213	.00070	.00975
%RSD	.29531	.13226	.53329	.15288	.44477	.82399	.60688	1.0221
#1	.79638	.16776	.13647	.14899	2.0239	.25733	.11557	.96318
#2	.79294	.16749	.13743	.14892	2.0394	.25843	.11535	.95345
#3	.79743	.16732	.13600	.14856	2.0397	.26146	.11666	.94369

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.7172	.06720	.07771	.38851	.89014	.30781	3.7769
Stddev	.0068	.00037	.00025	.00113	.00329	.00216	.0138
%RSD	.39420	.54924	.32722	.29213	.37015	.70313	.36680
#1	1.7163	.06715	.07792	.38826	.89255	.30620	3.7719
#2	1.7109	.06687	.07779	.38752	.89150	.30695	3.7662
#3	1.7244	.06760	.07743	.38975	.88639	.31027	3.7925

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S3 Acquired: 2/2/2025 11:12:05 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3343.3	66476.	12314.	2237.0	3726.1
Stddev	8.8	69.	121.	5.1	6.6
%RSD	.26311	.10410	.98591	.22669	.17739
#1	3343.1	66511.	12219.	2234.6	3723.3
#2	3352.2	66397.	12271.	2233.6	3733.6
#3	3334.6	66522.	12451.	2242.9	3721.3

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S4 Acquired: 2/2/2025 11:15:58 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30361	.28071	6.1533	.32345	.76933	1.8495	3.7831	1.9908
Stddev	.00057	.00232	.0063	.00032	.00142	.0091	.0035	.0131
%RSD	.18723	.82496	.10160	.09940	.18455	.49391	.09352	.65608
#1	.30349	.28162	6.1561	.32344	.76869	1.8392	3.7842	2.0030
#2	.30312	.28244	6.1461	.32314	.76835	1.8527	3.7860	1.9925
#3	.30423	.27808	6.1576	.32378	.77096	1.8566	3.7792	1.9770

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.5970	2.1394	2.6851	2.2335	2.4590	.78367	1.3676	.57746
Stddev	.0031	.0036	.0040	.0039	.0109	.00262	.0025	.00113
%RSD	.04072	.16994	.14978	.17413	.44485	.33386	.18108	.19528
#1	7.5985	2.1353	2.6894	2.2326	2.4464	.78091	1.3649	.57618
#2	7.5991	2.1417	2.6846	2.2301	2.4661	.78400	1.3698	.57794
#3	7.5934	2.1413	2.6814	2.2378	2.4646	.78611	1.3679	.57828

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.5887	.34337	.28435	.29827	4.2909	.54756	.24012	1.7986
Stddev	.0018	.00122	.00186	.00014	.0341	.00286	.00016	.0088
%RSD	.11376	.35573	.65555	.04810	.79415	.52190	.06870	.48906
#1	1.5898	.34478	.28389	.29813	4.2594	.54431	.24010	1.8047
#2	1.5867	.34261	.28640	.29841	4.3271	.54873	.24029	1.8025
#3	1.5898	.34271	.28275	.29826	4.2861	.54965	.23996	1.7885

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.4930	.14062	.15696	.77997	1.7895	.67542	7.9436
Stddev	.0066	.00029	.00057	.00091	.0051	.00298	.0566
%RSD	.18810	.20904	.36100	.11726	.28400	.44138	.71184
#1	3.4860	.14088	.15704	.77899	1.7872	.67198	7.8812
#2	3.4940	.14030	.15749	.78080	1.7954	.67715	7.9582
#3	3.4991	.14068	.15637	.78011	1.7860	.67713	7.9914

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S4 Acquired: 2/2/2025 11:15:58 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3087.6	63323.	12315.	2103.5	3452.8
Stddev	3.7	129.	71.	13.9	3.7
%RSD	.12031	.20377	.57961	.66027	.10669
#1	3090.2	63223.	12258.	2112.1	3450.7
#2	3089.2	63276.	12291.	2087.5	3457.1
#3	3083.3	63468.	12395.	2110.9	3450.7

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S5 Acquired: 2/2/2025 11:19:59 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.62768**	**.53426**	**11.833**	**.66209**	**1.5863**	**3.6217**	**7.2549**	**3.8925**
Stddev	.00336	.00439	.033	.00371	.0102	.0157	.0475	.0218
%RSD	.53510	.82189	.27712	.56093	.64407	.43347	.65456	.56019
#1	.62552	.52940	11.813	.65864	1.5796	3.6393	7.2035	3.8765
#2	.62597	.53793	11.814	.66161	1.5813	3.6091	7.2972	3.8837
#3	.63155	.53544	11.871	.66602	1.5981	3.6167	7.2641	3.9174

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.466**	**4.0257**	**4.9916**	**4.3050**	**4.7570**	**1.4672**	**2.5311**	**1.1054**
Stddev	.030	.0235	.0131	.0099	.0149	.0064	.0213	.0045
%RSD	.20928	.58408	.26271	.22926	.31381	.43565	.84229	.40370
#1	14.438	4.0523	5.0019	4.2996	4.7486	1.4706	2.5472	1.1082
#2	14.462	4.0175	4.9961	4.2990	4.7481	1.4711	2.5391	1.1078
#3	14.498	4.0075	4.9769	4.3164	4.7742	1.4598	2.5069	1.1003

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.0445**	**.68698**	**.54179**	**.56367**	**8.2365**	**1.0735**	**.47996**	**3.4215**
Stddev	.0075	.00120	.00172	.00095	.0419	.0049	.00197	.0232
%RSD	.24756	.17521	.31702	.16832	.50896	.45429	.41047	.67772
#1	3.0382	.68832	.54076	.56259	8.2192	1.0753	.47894	3.4093
#2	3.0425	.68665	.54377	.56411	8.2843	1.0773	.47871	3.4070
#3	3.0529	.68598	.54084	.56433	8.2061	1.0680	.48223	3.4482

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.9996**	**.28356**	**.30119**	**1.4937**	**3.3869**	**1.3105**	**15.382**
Stddev	.0417	.00098	.00092	.0031	.0063	.0081	.016
%RSD	.59555	.34671	.30642	.20605	.18494	.61557	.10559
#1	6.9709	.28244	.30012	1.4915	3.3797	1.3130	15.392
#2	6.9805	.28395	.30169	1.4923	3.3901	1.3170	15.363
#3	7.0474	.28429	.30175	1.4972	3.3910	1.3014	15.391

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S5 Acquired: 2/2/2025 11:19:59 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2763.4	60813.	11839.	1987.2	3177.3
Stddev	16.4	195.	47.	8.7	8.2
%RSD	.59366	.32096	.39524	.43539	.25878
#1	2773.9	60729.	11884.	1993.4	3182.6
#2	2771.9	60674.	11841.	1977.3	3181.5
#3	2744.5	61036.	11791.	1991.0	3167.8

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: S6 Acquired: 2/2/2025 11:24:34 Type: Cal
Method: EPA SFAM01.0(v61) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.6355	6.5718	3.8845	1.8198	1.5565
Stddev	.0738	.0589	.0086	.0021	.0050
%RSD	.76632	.89560	.22117	.11676	.31951
#1	9.5907	6.6019	3.8746	1.8189	1.5599
#2	9.7207	6.6096	3.8894	1.8222	1.5589
#3	9.5950	6.5040	3.8895	1.8183	1.5508

Int. Std.	Y_3600	Y_3710
Units	Cts/S	Cts/S
Avg	57185.	11362.
Stddev	88.	48.
%RSD	.15433	.42421
#1	57087.	11308.
#2	57211.	11400.
#3	57258.	11379.

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICV007 Acquired: 2/2/2025 11:52:50 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .8906478	1.077177	.9910018	.9498537	.9048143	2.474920
Stddev	.0061384	.007424	.0053981	.0018666	.0033119	.007404
%RSD	.6892042	.6892033	.5447135	.1965160	.3660272	.2991529
#1	.8859290	1.068620	.9885105	.9493279	.9047175	2.481765
#2	.8884269	1.081014	.9872992	.9483064	.9015519	2.475933
#3	.8975875	1.081897	.9971956	.9519269	.9081736	2.467062

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .4275946	F .5634942	.5009176	9.967470	.5649134	.5057399
Stddev	.0030877	.0019168	.0014907	.050277	.0006233	.0016801
%RSD	.7221020	.3401545	.2976000	.5044131	.1103336	.3321998
#1	.4311268	.5613487	.4997028	10.02540	.5656199	.5043631
#2	.4262483	.5640966	.5004688	9.94188	.5646787	.5052447
#3	.4254086	.5650375	.5025811	9.93514	.5644415	.5076119

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5299868	9.360202	F .4599122	6.260393	.5118281	.2384998
Stddev	.0016505	.056277	.0014644	.004080	.0022016	.0003372
%RSD	.3114214	.6012381	.3184041	.0651721	.4301440	.1413679
#1	.5281271	9.423474	.4613165	6.264252	.5106491	.2387763
#2	.5312776	9.341393	.4600259	6.256123	.5104671	.2381242
#3	.5305557	9.315738	.4583943	6.260805	.5143681	.2385989

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.37106	.5119524	F .8764566	9.364688	F -.000533	F .0322575
Stddev	.23208	.0035200	.0087717	.074425	.001014	.0003106
%RSD	2.237738	.6875592	1.000816	.7947418	190.1643	.9628180
#1	10.36631	.5155923	.8864953	9.449981	-.001373	.0321329
#2	10.60548	.5116987	.8726034	9.331150	-.000820	.0326110
#3	10.14139	.5085661	.8702709	9.312934	.000593	.0320285

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICV007 Acquired: 2/2/2025 11:52:50 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.000334	F .0041728	F .0046273	F -.002747	F -.000764	F -.000419
Stddev	.000138	.0009592	.0034791	.000321	.000696	.000682
%RSD	41.29714	22.98753	75.18486	11.68950	91.09320	162.8281
#1	-.000223	.0030762	.0008353	-.003105	-.001124	-.001104
#2	-.000292	.0045858	.0076718	-.002650	.000038	.000260
#3	-.000489	.0048563	.0053749	-.002485	-.001206	-.000413

Elem	Sr4077
Units	ppm
Avg	F .0011690
Stddev	.0000699
%RSD	5.977857
#1	.0010905
#2	.0012245
#3	.0011920

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3641.164	70406.10	11631.42	2349.836	4311.423
Stddev	11.120	71.71	48.56	1.496	11.035
%RSD	.3054001	.1018454	.4175152	.0636784	.2559577
#1	3650.650	70438.72	11684.57	2348.552	4321.351
#2	3643.916	70455.70	11620.34	2349.477	4313.378
#3	3628.927	70323.89	11589.36	2351.479	4299.541

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICB007 Acquired: 2/2/2025 11:56:46 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008691**	**-.001810**	**-.000548**	**-.001354**	**-.000412**	**-.003763**	**.0031043**
Stddev	.0011440	.002280	.000878	.002998	.000613	.005280	.0008743
%RSD	131.6248	125.9970	160.2605	221.3592	148.9215	140.3181	28.16479
#1	-.000334	.000727	-.001355	.001312	-.001062	-.009350	.0031422
#2	.001943	-.003690	-.000676	-.000775	-.000330	.001145	.0022116
#3	.000998	-.002466	.000387	-.004599	.000157	-.003084	.0039591

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000008**	**.0000323**	**-.005303**	**-.000252**	**.0000874**	**.0011333**	**.0031441**
Stddev	.000047	.0000707	.004995	.000486	.0000923	.0021164	.0012735
%RSD	557.7741	218.7130	94.18925	192.3964	105.5331	186.7436	40.50547
#1	.000033	.0000631	.000327	.000281	.0000053	.0001022	.0039126
#2	-.000060	-.000049	-.007034	-.000670	.0001873	.0035676	.0016741
#3	.000002	.000082	-.009203	-.000368	.0000698	-.000270	.0038456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002788**	**.0034802**	**-.000153**	**.0004881**	**.2446233**	**-.002037**	**.0003674**
Stddev	.0001339	.0104745	.000153	.0002391	.2363940	.000999	.0017800
%RSD	48.03497	300.9685	99.75522	48.97770	96.63591	49.04072	484.5253
#1	.0002915	.0139625	-.000026	.0002132	-.028339	-.003167	.0003113
#2	.0001389	.0034646	-.000323	.0006477	.382014	-.001274	-.001384
#3	.0004058	-.006986	-.000110	.0006033	.380195	-.001668	.002175

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2189123**	**.0002491**	**-.004914**	**-.000149**	**-.000309**	**.0052579**	**-.003722**
Stddev	.0652281	.0024568	.000062	.000270	.002206	.0017117	.000556
%RSD	29.79645	986.2282	1.253516	180.7888	714.5925	32.55484	14.92510
#1	.2933010	.0022186	-.004948	-.000301	.002123	.0052404	-.003092
#2	.1714978	.0010327	-.004843	-.000310	-.002183	.0035551	-.003934
#3	.1919383	-.002504	-.004952	.000162	-.000866	.0069784	-.004141

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICB007 Acquired: 2/2/2025 11:56:46 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0005730	-.002909	-.000025
Stddev	.0006205	.001726	.000031
%RSD	108.2987	59.33610	123.6990
#1	.0012894	-.000938	-.000011
#2	.0002019	-.003640	-.000061
#3	.0002277	-.004150	-.000004

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3642.224	70583.64	11890.22	2358.086	4397.196
Stddev	4.181	96.71	21.38	5.984	3.411
%RSD	.1148010	.1370116	.1797799	.2537834	.0775752
#1	3642.646	70526.62	11875.01	2358.291	4397.425
#2	3646.179	70695.30	11880.99	2363.966	4400.487
#3	3637.848	70529.00	11914.66	2352.002	4393.676

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICSA007 Acquired: 2/2/2025 12:00:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005328**	**-.001124**	**-.000903**	**.0223970**	**.0107178**	**216.9201**
Stddev	.003220	.003514	.001550	.0070328	.0010064	1.1993
%RSD	60.43830	312.7680	171.5703	31.40053	9.390109	.5528660
#1	-.006979	.002795	-.001996	.0287245	.0113327	215.6929
#2	-.001617	-.003997	-.001585	.0236414	.0112643	216.9779
#3	-.007388	-.002169	.000871	.0148251	.0095563	218.0894

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066539**	**-.000530**	**.0014560**	**227.4857**	**.0610879**	**.0009769**
Stddev	.0009806	.000047	.0001155	1.1833	.0001228	.0002922
%RSD	14.73712	8.876630	7.930480	.5201567	.2009771	29.91386
#1	.0065000	-.000521	.0013227	226.2773	.0611378	.0009517
#2	.0077023	-.000580	.0015193	227.5378	.0609480	.0012810
#3	.0057593	-.000487	.0015260	228.6421	.0611779	.0006981

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011955**	**94.97197**	**.0123428**	**222.6221**	**.0034151**	**.0019241**
Stddev	.001766	.53807	.0000279	1.0699	.0002590	.0002532
%RSD	14.77440	.5665595	.2259998	.4805773	7.583676	13.16163
#1	-.013984	94.42557	.0123742	221.6107	.0031161	.0016420
#2	-.011125	94.98904	.0123332	222.5134	.0035608	.0019986
#3	-.010757	95.50131	.0123209	223.7422	.0035685	.0021318

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.385874**	**-.005802**	**-.006219**	**.1106352**	**.0037792**	F **.3567518**
Stddev	.325553	.001539	.000615	.0109632	.0008633	.0031207
%RSD	84.36751	26.53058	9.892497	9.909353	22.84383	.8747636
#1	-.232354	-.006657	-.005520	.0981137	.0033764	.3545944
#2	-.165468	-.004025	-.006462	.1185091	.0047703	.3553309
#3	-.759801	-.006725	-.006677	.1152828	.0031908	.3603302

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICSA007 Acquired: 2/2/2025 12:00:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008675	.0185537	.0014948	F -.007747	-.002498	.0027122
Stddev	.0003376	.0035755	.0063382	.001953	.000705	.0004462
%RSD	38.92266	19.27112	424.0295	25.20445	28.20702	16.45121
#1	.0005007	.0148748	.0033275	-.005645	-.003100	.0022042
#2	.0009365	.0220159	-.005558	-.008090	-.002670	.0030409
#3	.0011653	.0187703	.006715	-.009505	-.001723	.0028914

Elem	Sr4077
Units	ppm
Avg	.0961217
Stddev	.0006172
%RSD	.6420819
#1	.0955943
#2	.0959702
#3	.0968005

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.910	64192.88	11395.30	2141.455	3580.624
Stddev	2.794	109.94	68.25	8.252	6.319
%RSD	.0852339	.1712699	.5989545	.3853686	.1764820
#1	3277.931	64316.40	11345.45	2147.864	3583.839
#2	3280.693	64105.72	11367.36	2144.358	3584.689
#3	3275.106	64156.54	11473.09	2132.143	3573.344

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICSAB007 Acquired: 2/2/2025 12:05:00 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0919046	.1028944	.0512488	.0671569	.5583795	222.9248
Stddev	.0008356	.0002538	.0005033	.0024930	.0027020	.7962
%RSD	.9091797	.2466124	.9819756	3.712220	.4838935	.3571473
#1	.0911196	.1028185	.0510702	.0651062	.5562161	223.2971
#2	.0927829	.1026873	.0518169	.0699319	.5575144	222.0107
#3	.0918113	.1031775	.0508591	.0664326	.5614081	223.4666

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4746010	.5254716	1.002088	232.7891	.5999298	.5074029
Stddev	.0028341	.0010059	.002277	.8300	.0013804	.0005345
%RSD	.5971514	.1914271	.2271938	.3565329	.2300935	.1053382
#1	.4762167	.5245180	1.001257	233.5161	.5998504	.5072726
#2	.4713286	.5265227	1.000344	231.8848	.5985909	.5069455
#3	.4762577	.5253741	1.004664	232.9665	.6013483	.5079904

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5052719	97.41026	.4904144	228.3146	1.010255	.2026789
Stddev	.0013508	.38596	.0028418	.9258	.000915	.0007777
%RSD	.2673347	.3962207	.5794658	.4054799	.0905646	.3836965
#1	.5053692	97.66514	.4929672	229.0907	1.009246	.2021372
#2	.5065713	96.96621	.4873525	227.2899	1.010489	.2023295
#3	.5038751	97.59943	.4909235	228.5631	1.011031	.2035700

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.546954	.4899338	.9500353	.0610833	.0045090	F .3724076
Stddev	.426481	.0019495	.0119496	.0229350	.0021791	.0017120
%RSD	77.97386	.3979149	1.257805	37.54712	48.32752	.4597131
#1	-.723035	.4921606	.9585565	.0673290	.0048634	.3739449
#2	-.857200	.4891059	.9363761	.0356724	.0064892	.3705626
#3	-.060626	.4885348	.9551734	.0802486	.0021744	.3727153

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: ICSAB007 Acquired: 2/2/2025 12:05:00 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB007 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002806	.0208619	.0122597	F -.007103	-.004677	.0023138
Stddev	.0003973	.0020861	.0075899	.000719	.001483	.0015828
%RSD	141.5661	9.999346	61.90967	10.12398	31.71500	68.40652
#1	.0006971	.0226083	.0130120	-.007496	-.004735	.0007996
#2	-.000094	.0214255	.0043216	-.006273	-.003165	.0039572
#3	.000239	.0185520	.0194455	-.007539	-.006129	.0021845

Elem	Sr4077
Units	ppm
Avg	.0983416
Stddev	.0002259
%RSD	.2297611
#1	.0984238
#2	.0980861
#3	.0985151

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3290.169	64518.56	11761.78	2134.011	3606.553
Stddev	2.394	206.37	12.14	13.588	4.433
%RSD	.0727579	.3198670	.1031885	.6367306	.1229068
#1	3291.398	64326.73	11754.36	2123.019	3608.860
#2	3291.700	64736.92	11755.20	2149.203	3609.357
#3	3287.411	64492.04	11775.79	2129.811	3601.443

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV033 Acquired: 2/2/2025 12:08:56 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.964030**	**4.957115**	**24.56970**	**5.014988**	**5.026607**	**373.4154**
Stddev	.004015	.085996	.04265	.007916	.013596	2.3173
%RSD	.0808836	1.734794	.1735702	.1578498	.2704893	.6205821
#1	4.968630	5.009239	24.61676	5.023993	5.020109	376.0270
#2	4.962231	5.004248	24.55870	5.009126	5.017480	372.6144
#3	4.961229	4.857857	24.53362	5.011846	5.042234	371.6048

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.234133**	**.5355758**	**2.484085**	**376.2711**	**15.42642**	**2.489869**
Stddev	.020869	.0006450	.008269	.7347	.03862	.003279
%RSD	.2259968	.1204286	.3328690	.1952548	.2503274	.1316874
#1	9.211137	.5354925	2.490657	375.7837	15.46551	2.493273
#2	9.239395	.5362585	2.486798	377.1161	15.42546	2.486731
#3	9.251868	.5349766	2.474801	375.9134	15.38829	2.489604

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.27551**	**377.1581**	**13.90230**	**370.1047**	**2.488443**	**1.273736**
Stddev	.01356	.5766	.01797	.7418	.005305	.001032
%RSD	.0887897	.1528925	.1292284	.2004354	.2131812	.0809838
#1	15.29069	377.7928	13.91952	370.8582	2.494385	1.273485
#2	15.26459	377.0151	13.88367	370.0809	2.486761	1.272854
#3	15.27123	376.6664	13.90370	369.3751	2.484183	1.274870

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**379.0829**	**2.458083**	**14.40334**	**144.2494**	**5.046469**	F **6.068614**
Stddev	.1260	.011834	.03293	.2648	.025378	.002161
%RSD	.0332387	.4814371	.2286051	.1835794	.5028932	.0356024
#1	378.9407	2.471732	14.38267	144.4844	5.062362	6.067378
#2	379.1806	2.450690	14.44131	144.3013	5.059844	6.071109
#3	379.1275	2.451828	14.38603	143.9625	5.017201	6.067356

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV033 Acquired: 2/2/2025 12:08:56 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV033 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.899378**	**5.104339**	**4.864817**	**4.963141**	**4.952673**	**4.654700**
Stddev	.008070	.011448	.028966	.011717	.004113	.013277
%RSD	.1647144	.2242771	.5954134	.2360901	.0830421	.2852477
#1	4.901647	5.116765	4.833479	4.974113	4.956002	4.666885
#2	4.890416	5.094221	4.870366	4.964510	4.948075	4.640549
#3	4.906070	5.102029	4.890607	4.950798	4.953942	4.656664

Elem	Sr4077
Units	ppm
Avg	**4.822472**
Stddev	.023543
%RSD	.4881906
#1	4.796149
#2	4.841514
#3	4.829754

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2880.563**	**60657.72**	**10869.16**	**1967.411**	**3184.940**
Stddev	8.881	161.25	13.16	5.718	2.103
%RSD	.3082959	.2658422	.1210803	.2906577	.0660382
#1	2884.352	60476.30	10856.05	1966.564	3185.617
#2	2886.920	60712.09	10869.06	1962.164	3186.621
#3	2870.416	60784.75	10882.37	1973.506	3182.582

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB033 Acquired: 2/2/2025 12:13:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000074**	**-.000110**	**-.000230**	**.0004036**	**-.000163**	**.0012568**	**-.000230**
Stddev	.000824	.000759	.000824	.0028310	.001230	.0035654	.000584
%RSD	1121.352	692.2382	358.0512	701.4925	755.5880	283.6914	253.7350
#1	-.001012	-.000273	.000346	.0021749	.001137	-.002860	.000419
#2	.000257	.000717	-.001174	-.002862	-.000316	.003374	-.000396
#3	.000534	-.000773	.000138	.001897	-.001309	.003256	-.000714

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000054**	**.0000102**	**.0010686**	**.0001521**	**.0000783**	**.0009939**	**.0065883**
Stddev	.000042	.0000142	.0121345	.0001765	.0002609	.0015447	.0040515
%RSD	77.62052	139.4967	1135.570	116.0296	333.0011	155.4107	61.49559
#1	-.000072	-.000006	.0141875	.0002265	-.000168	.0010219	.0026282
#2	-.000006	.000021	-.009753	-.000049	.000352	.0025244	.0107255
#3	-.000085	.000015	-.001229	.000279	.000051	-.000565	.0064112

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000055**	**.0024668**	**.0000783**	**.0003792**	**.0649616**	**-.002154**	**.0009698**
Stddev	.000315	.0060024	.0001276	.0002519	.2265997	.001096	.0004235
%RSD	572.3116	243.3263	163.0015	66.40797	348.8212	50.89284	43.66757
#1	-.000070	.0074269	.0002113	.0000993	-.181032	-.003241	.0011069
#2	-.000362	-.004206	-.000043	.0005874	.110740	-.002172	.0004948
#3	.000267	.004179	.000067	.0004510	.265177	-.001049	.0013079

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0548638**	**.0000821**	**.0009813**	**.0001044**	**-.000412**	**.0027586**	**-.003218**
Stddev	.0240105	.0008033	.0004730	.0001609	.003772	.0061041	.000351
%RSD	43.76376	978.6600	48.20487	154.0568	914.6783	221.2763	10.90494
#1	.0705064	.0006937	.0004351	-.000075	.001122	.0095538	-.003591
#2	.0272187	.0003801	.0012536	.000235	.002351	-.002260	-.002895
#3	.0668663	-.000828	.0012553	.000154	-.004710	.000982	-.003168

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB033 Acquired: 2/2/2025 12:13:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB033 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000129	-.002442	.0000806
Stddev	.000506	.000533	.0000560
%RSD	391.8363	21.84357	69.48412
#1	-.000241	-.001988	.0000183
#2	-.000569	-.003029	.0000967
#3	.000423	-.002308	.0001269

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3660.842	71513.93	11644.41	2378.391	4419.600
Stddev	1.122	246.69	85.85	9.835	6.116
%RSD	.0306605	.3449529	.7372206	.4135036	.1383904
#1	3661.053	71750.54	11567.98	2387.706	4417.682
#2	3661.844	71532.99	11737.29	2379.358	4426.445
#3	3659.629	71258.26	11627.98	2368.108	4414.672

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166472BL Acquired: 2/2/2025 12:17:49 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS472 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002278**	**-.000430**	**-.000772**	**.0000893**	**-.000109**	**.0041036**	**.0040201**
Stddev	.001112	.001086	.000570	.0005196	.001385	.0081279	.0008195
%RSD	48.79888	252.2055	73.81449	581.7520	1273.066	198.0688	20.38474
#1	-.003002	-.001339	-.001225	-.000067	-.001679	.0134757	.0049396
#2	-.002835	.000772	-.000958	-.000334	.000940	-.000154	.0037538
#3	-.000998	-.000724	-.000132	.000669	.000413	-.001012	.0033669

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000259**	**-.000041**	**.0002698**	**.0000086**	**.0001854**	**.0020502**	**.0079434**
Stddev	.0000752	.000017	.0036038	.0004080	.0001714	.0015235	.0011226
%RSD	290.5759	41.02725	1335.819	4763.817	92.47754	74.31223	14.13297
#1	.0000613	-.000039	-.002990	.0001930	.0000185	.0003560	.0082150
#2	.0000769	-.000058	-.000340	.0002918	.0003611	.0024867	.0089052
#3	-.000061	-.000025	.004140	-.000459	.0001766	.0033078	.0067098

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000138**	**-.009582**	**-.000284**	**.0005262**	**.2000317**	**-.002540**	**-.000148**
Stddev	.0003736	.008718	.000227	.0000965	.2004835	.002319	.002202
%RSD	2702.722	90.98671	80.00546	18.33388	100.2259	91.28297	1490.379
#1	.0000527	-.005837	-.000052	.0004816	-.003353	-.001368	-.002625
#2	.0003664	-.003361	-.000506	.0006369	.205966	-.001042	.000592
#3	-.000378	-.019546	-.000292	.0004602	.397482	-.005211	.001589

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2967913**	**-.000457**	**-.002821**	**.0000016**	**.0001243**	**.0053077**	**-.000094**
Stddev	.0175934	.001203	.000475	.0003543	.0047550	.0065392	.000115
%RSD	5.927855	263.4943	16.82767	22042.60	3824.005	123.2023	123.1035
#1	.2816403	-.001180	-.003262	.0002650	.0020179	.0086036	.000029
#2	.3160869	.000932	-.002882	.0001411	-.005286	.0095432	-.000200
#3	.2926465	-.001122	-.002319	-.000401	.003641	-.002224	-.000110

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166472BL Acquired: 2/2/2025 12:17:49 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS472 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0009243	-.004061	.0000586
Stddev	.0005644	.002008	.0000604
%RSD	61.06063	49.45375	103.1473
#1	.0014401	-.003716	.0001268
#2	.0010113	-.002248	.0000120
#3	.0003215	-.006220	.0000369

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3619.889	71513.16	12520.77	2368.923	4356.377
Stddev	5.536	240.36	50.52	11.362	9.161
%RSD	.1529339	.3361027	.4034991	.4796300	.2102932
#1	3625.076	71267.47	12516.12	2356.679	4363.246
#2	3620.531	71747.80	12472.73	2370.963	4359.910
#3	3614.060	71524.22	12573.45	2379.126	4345.976

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166472BS Acquired: 2/2/2025 12:21:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS472 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0160291**	**.0506580**	**.0180991**	**.0644651**	**.1080407**	**.3599850**	**.3649855**
Stddev	.0009996	.0006411	.0014246	.0020091	.0012785	.0049601	.0028821
%RSD	6.235981	1.265625	7.871120	3.116511	1.183367	1.377866	.7896578
#1	.0151310	.0512070	.0193798	.0665851	.1081218	.3549920	.3616973
#2	.0171060	.0499534	.0165647	.0625892	.1092767	.3649116	.3661855
#3	.0158503	.0508135	.0183528	.0642210	.1067235	.3600515	.3670738

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0105277**	**.0099569**	**9.473884**	**.0215220**	**.0976729**	**.0566495**	**.1923871**
Stddev	.0000249	.0001366	.039892	.0002202	.0003413	.0023753	.0065752
%RSD	.2362559	1.371604	.4210750	1.023032	.3494409	4.192940	3.417694
#1	.0105519	.0099623	9.432404	.0217716	.0973220	.0592748	.1891708
#2	.0105290	.0098178	9.477275	.0214391	.0980037	.0546492	.1880392
#3	.0105022	.0100907	9.511972	.0213553	.0976931	.0560244	.1999513

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0293834**	**8.596292**	**.0795502**	**.0195485**	**9.564362**	**.1022642**	**.1184195**
Stddev	.0000724	.058514	.0001838	.0004525	.083167	.0003298	.0014927
%RSD	.2463966	.6806924	.2310766	2.314923	.8695486	.3224737	1.260540
#1	.0293604	8.557163	.0796519	.0194044	9.500984	.1026049	.1167348
#2	.0293252	8.568153	.0796606	.0191856	9.533568	.1022412	.1189464
#3	.0294645	8.663560	.0793380	.0200555	9.658534	.1019465	.1195774

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.174298**	**.0183476**	**-.003637**	**.0201152**	**.1733911**	**.8531773**	**.0125506**
Stddev	.075871	.0009194	.000253	.0003896	.0043405	.0077053	.0004432
%RSD	.8269943	5.010923	6.945800	1.936641	2.503300	.9031257	3.530966
#1	9.094215	.0189266	-.003696	.0204733	.1696455	.8582791	.0126523
#2	9.183575	.0172875	-.003855	.0201718	.1781480	.8569390	.0129341
#3	9.245104	.0188287	-.003360	.0197004	.1723798	.8443137	.0120655

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166472BS Acquired: 2/2/2025 12:21:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS472 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2028010	.0233332	.1905202
Stddev	.0007631	.0011270	.0013597
%RSD	.3762803	4.829951	.7136759
#1	.2035701	.0222815	.1891120
#2	.2027888	.0245228	.1906232
#3	.2020440	.0231955	.1918255

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3617.673	70212.05	12426.34	2332.747	4282.034
Stddev	3.189	265.88	60.56	13.114	5.609
%RSD	.0881593	.3786836	.4873452	.5621605	.1309955
#1	3616.818	70519.01	12366.62	2345.532	4287.903
#2	3621.203	70053.92	12424.69	2333.382	4281.475
#3	3614.999	70063.20	12487.70	2319.328	4276.726

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166385BL Acquired: 2/2/2025 12:26:02 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS385 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000951**	**-.001657**	**-.000760**	**.0008127**	**-.001087**	**-.004604**	**.0030346**
Stddev	.003176	.001921	.001434	.0013816	.000959	.002528	.0000807
%RSD	334.0634	115.9361	188.7349	170.0112	88.22891	54.91261	2.660473
#1	-.003905	.000535	.000882	-.000326	-.000469	-.003915	.0030103
#2	-.001355	-.002457	-.001394	.002350	-.002192	-.007406	.0031247
#3	.002408	-.003048	-.001768	.000414	-.000601	-.002492	.0029689

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000018**	**.0000038**	**-.006547**	**.0000883**	**.0002358**	**.0020299**	**.0045621**
Stddev	.000014	.0000348	.009017	.0001957	.0002113	.0025448	.0042147
%RSD	74.95413	920.1790	137.7146	221.5364	89.62511	125.3639	92.38549
#1	-.000019	-.000028	.002606	-.000125	.0004673	-.000019	.0009154
#2	-.000004	-.000002	-.006828	.000260	.0000531	.001230	.0091765
#3	-.000032	.000041	-.015420	.000130	.0001871	.004879	.0035943

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000093**	**-.009162**	**-.000464**	**.0002703**	**.1080133**	**-.000990**	**-.000174**
Stddev	.000262	.018992	.000244	.0002548	.1456527	.000021	.002259
%RSD	281.8193	207.2915	52.60095	94.26427	134.8469	2.121186	1296.410
#1	.000094	.003912	-.000676	.0003478	-.038558	-.000984	.001521
#2	-.000392	-.000451	-.000518	.0004772	.252730	-.000972	-.002738
#3	.000020	-.030947	-.000197	-.000014	.109869	-.001013	.000695

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2571957**	**.0000825**	**-.005058**	**-.000071**	**.0026891**	**.0030523**	**-.000345**
Stddev	.0243964	.0005682	.000725	.000171	.0016707	.0026295	.000232
%RSD	9.485522	688.6255	14.33414	239.0643	62.12879	86.14921	67.14366
#1	.2633721	-.000310	-.005815	.000102	.0017502	.0058160	-.000207
#2	.2779103	.000734	-.004370	-.000239	.0016990	.0005815	-.000216
#3	.2303048	-.000177	-.004990	-.000077	.0046180	.0027594	-.000613

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166385BL Acquired: 2/2/2025 12:26:02 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS385 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002773	-.003057	.0000349
Stddev	.0008563	.000372	.0000251
%RSD	308.8024	12.17281	71.85649
#1	-.000611	-.002691	.0000530
#2	.001097	-.003046	.0000454
#3	.000346	-.003435	.0000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3608.129	71510.05	12407.78	2367.403	4346.140
Stddev	10.338	103.42	37.08	10.264	7.856
%RSD	.2865261	.1446255	.2988468	.4335463	.1807553
#1	3603.494	71626.36	12364.97	2361.897	4342.357
#2	3619.974	71428.45	12429.62	2361.066	4355.172
#3	3600.919	71475.35	12428.76	2379.245	4340.891

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166385BS Acquired: 2/2/2025 12:30:11 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS385 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0171800**	**.0530533**	**.0190424**	**.0675580**	**.1120941**	**.3743670**	**.3952545**
Stddev	.0033288	.0008115	.0004188	.0021000	.0027365	.0083157	.0009845
%RSD	19.37597	1.529632	2.199124	3.108430	2.441276	2.221280	.2490831
#1	.0138820	.0522647	.0189478	.0699090	.1091037	.3660335	.3945043
#2	.0205388	.0530093	.0186790	.0668967	.1127053	.3744026	.3963693
#3	.0171194	.0538860	.0195003	.0658682	.1144734	.3826649	.3948900

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0105623**	**.0103334**	**10.11374**	**.0222257**	**.1011015**	**.0603431**	**.2208433**
Stddev	.0001023	.0000826	.03989	.0001903	.0005391	.0006420	.0011526
%RSD	.9681183	.7989782	.3944466	.8564434	.5332240	1.063846	.5219286
#1	.0106754	.0104259	10.09406	.0221719	.1017020	.0610303	.2220493
#2	.0105350	.0103071	10.15965	.0224372	.1009434	.0597588	.2197527
#3	.0104764	.0102672	10.08752	.0220680	.1006592	.0602402	.2207279

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0311908**	**9.172145**	**.0820260**	**.0199019**	**10.02035**	**.1074791**	**.1253364**
Stddev	.0006529	.036154	.0003742	.0003264	.41680	.0012189	.0013930
%RSD	2.093277	.3941665	.4561538	1.639827	4.159516	1.134060	1.111388
#1	.0317984	9.148311	.0822192	.0199794	10.29388	.1071597	.1268966
#2	.0312734	9.213744	.0815947	.0195438	10.22653	.1088258	.1242178
#3	.0305005	9.154379	.0822641	.0201826	9.54065	.1064517	.1248946

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.855321**	**.0174173**	**-.003611**	**.0204495**	**.1813954**	**.8794746**	**.0135191**
Stddev	.037301	.0014741	.000409	.0002890	.0012069	.0094440	.0010378
%RSD	.3784887	8.463219	11.33507	1.413276	.6653425	1.073824	7.676277
#1	9.823697	.0157484	-.003151	.0206393	.1819676	.8831269	.0143195
#2	9.845808	.0185413	-.003934	.0205923	.1822098	.8687499	.0138912
#3	9.896458	.0179622	-.003748	.0201169	.1800088	.8865471	.0123466

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: PB166385BS Acquired: 2/2/2025 12:30:11 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS385 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2115719	.0251776	.1991544
Stddev	.0017621	.0007243	.0006684
%RSD	.8328489	2.876616	.3356013
#1	.2096141	.0254382	.1984554
#2	.2120712	.0257355	.1997872
#3	.2130305	.0243591	.1992206

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3577.804	69830.52	12767.73	2325.842	4216.023
Stddev	6.789	156.86	54.08	6.473	8.805
%RSD	.1897498	.2246271	.4235616	.2783221	.2088361
#1	3570.919	69715.06	12706.73	2321.406	4207.312
#2	3584.493	69767.39	12809.79	2322.849	4224.919
#3	3578.000	70009.11	12786.66	2333.270	4215.837

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-05 Acquired: 2/2/2025 12:34:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8127924**	**-.029912**	**3.103565**	**.0800229**	**.0089475**	**170.7293**
Stddev	.0047880	.001444	.008174	.0067479	.0022173	.5089
%RSD	.5890750	4.828437	.2633651	8.432469	24.78173	.2980645
#1	.8079159	-.031229	3.107258	.0830024	.0077529	171.1515
#2	.8174866	-.030141	3.109241	.0847682	.0075836	170.8723
#3	.8129747	-.028367	3.094197	.0722980	.0115060	170.1643

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.189431**	**.0212970**	**.0170341**	**142.1209**	**6.393485**	**.1034926**
Stddev	.004930	.0001690	.0002252	.3593	.008380	.0003703
%RSD	.4144534	.7935231	1.321943	.2527821	.1310715	.3578015
#1	1.195034	.0212819	.0172874	142.5009	6.383825	.1035747
#2	1.187501	.0211360	.0168566	142.0750	6.398805	.1038150
#3	1.185758	.0214730	.0169583	141.7868	6.397825	.1030882

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.924972**	**340.1805**	**13.86367**	**30.08704**	**1.027669**	**.0269345**
Stddev	.004664	.7243	.03521	.12358	.000706	.0004541
%RSD	.0469948	.2129236	.2539612	.4107363	.0686730	1.685783
#1	9.922705	340.6308	13.90348	30.13557	1.028351	.0274063
#2	9.930337	340.5656	13.85093	30.17900	1.027715	.0268965
#3	9.921876	339.3449	13.83661	29.94657	1.026941	.0265006

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.06807**	**.1862860**	**1.181463**	**8.905568**	F **11.86210**	**1.444679**
Stddev	.17404	.0008457	.008528	.053797	.06030	.003648
%RSD	.8260884	.4539632	.7218577	.6040819	.5083579	.2525352
#1	21.10437	.1865056	1.190961	8.967536	11.93132	1.446378
#2	20.87875	.1870002	1.178967	8.870839	11.83397	1.447167
#3	21.22111	.1853522	1.174461	8.878327	11.82099	1.440491

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-05 Acquired: 2/2/2025 12:34:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241429	F 26.78337	F 15.22459	6.648740	3.680041	.4328680
Stddev	.0000812	.03104	.07350	.014798	.005875	.0002531
%RSD	.3362311	.1159077	.4827389	.2225739	.1596417	.0584717
#1	.0240619	26.80926	15.14664	6.665650	3.684144	.4330868
#2	.0241424	26.74895	15.23451	6.638159	3.673311	.4329263
#3	.0242243	26.79190	15.29262	6.642411	3.682668	.4325908

Elem	Sr4077
Units	ppm
Avg	1.179513
Stddev	.013480
%RSD	1.142830
#1	1.179757
#2	1.192869
#3	1.165913

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3474.948	71298.48	13378.83	2315.501	3806.209
Stddev	9.846	129.58	28.68	1.754	8.962
%RSD	.2833528	.1817417	.2143865	.0757676	.2354621
#1	3475.979	71353.98	13411.91	2315.475	3806.204
#2	3464.627	71150.39	13363.74	2313.760	3797.250
#3	3484.238	71391.06	13360.84	2317.269	3815.174

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-06 Acquired: 2/2/2025 12:38:12 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8029825**	**-.027748**	**3.074448**	**.0811713**	**.0072723**	**170.3813**
Stddev	.0035744	.004484	.009268	.0021060	.0024793	1.6464
%RSD	.4451351	16.16128	.3014449	2.594447	34.09266	.9663066
#1	.7997668	-.024014	3.065116	.0792169	.0048402	172.2778
#2	.8068310	-.032722	3.083650	.0808953	.0097963	169.3187
#3	.8023497	-.026507	3.074578	.0834016	.0071804	169.5473

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.194690**	**.0216420**	**.0167496**	**142.6790**	**6.337958**	**.1020916**
Stddev	.011344	.0005594	.0001042	1.0995	.018712	.0008729
%RSD	.9495279	2.584748	.6220194	.7706253	.2952340	.8550440
#1	1.207195	.0222879	.0167309	143.8807	6.358787	.1012637
#2	1.185062	.0213227	.0168618	141.7234	6.322569	.1030035
#3	1.191812	.0213153	.0166560	142.4329	6.332517	.1020075

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.999892**	**339.9348**	**13.94914**	**30.17501**	**1.016445**	**.0277787**
Stddev	.213048	2.6444	.11280	.17938	.002234	.0008377
%RSD	2.130501	.7779265	.8086163	.5944526	.2198115	3.015599
#1	10.24581	342.8734	14.06638	30.35995	1.014371	.0283172
#2	9.87122	337.7468	13.84139	30.00177	1.018811	.0268136
#3	9.88265	339.1842	13.93965	30.16330	1.016154	.0282053

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.51854**	**.1903973**	**1.183044**	**8.808390**	F **11.66209**	**1.439020**
Stddev	.50534	.0044679	.015963	.035968	.02040	.009408
%RSD	2.348383	2.346603	1.349343	.4083369	.1749061	.6538059
#1	22.09622	.1954661	1.200131	8.849916	11.63908	1.449483
#2	21.15842	.1870310	1.168512	8.788199	11.67794	1.431256
#3	21.30099	.1886948	1.180489	8.787053	11.66926	1.436321

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-06 Acquired: 2/2/2025 12:38:12 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0239254	F 26.27002	F 15.97926	6.565655	3.748903	.4338390
Stddev	.0002108	.08864	.23360	.018810	.079602	.0048019
%RSD	.8809612	.3374003	1.461899	.2864858	2.123337	1.106833
#1	.0237639	26.18710	16.24789	6.544397	3.839457	.4392710
#2	.0241638	26.36344	15.82382	6.580141	3.689970	.4301594
#3	.0238484	26.25952	15.86606	6.572428	3.717283	.4320867

Elem	Sr4077
Units	ppm
Avg	1.170921
Stddev	.017207
%RSD	1.469544
#1	1.184117
#2	1.151459
#3	1.177186

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3500.467	71491.73	13226.67	2329.243	3839.264
Stddev	11.543	271.46	187.67	11.998	9.605
%RSD	.3297526	.3797076	1.418868	.5151064	.2501684
#1	3510.911	71262.51	13013.47	2315.905	3848.444
#2	3488.074	71791.50	13366.88	2339.155	3829.284
#3	3502.417	71421.18	13299.66	2332.670	3840.063

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-05LX5 Acquired: 2/2/2025 12:42:13 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1560754	-.004694	.6447735	.0181803	-.000122	35.05881	.2483678
Stddev	.0017874	.002969	.0027201	.0003565	.000784	.33903	.0022590
%RSD	1.145212	63.25113	.4218696	1.960803	644.7161	.9670284	.9095466
#1	.1581237	-.008016	.6420849	.0183577	.000650	35.40969	.2497002
#2	.1548314	-.003766	.6447116	.0177699	-.000097	35.03372	.2496438
#3	.1552713	-.002300	.6475240	.0184132	-.000917	34.73303	.2457595

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045113	.0029752	30.18613	1.360803	.0208782	2.112958	73.79639
Stddev	.0000793	.0001080	.28503	.024388	.0001194	.048461	.70919
%RSD	1.758652	3.630704	.9442412	1.792180	.5717724	2.293517	.9610061
#1	.0045665	.0028638	30.44487	1.372424	.0209644	2.118716	74.47917
#2	.0044204	.0030795	30.23293	1.377207	.0209281	2.061876	73.84653
#3	.0045471	.0029821	29.88060	1.332777	.0207419	2.158283	73.06346

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.965854	6.504538	.2072597	.0067374	4.754917	.0390363	.2443712
Stddev	.027768	.085492	.0008360	.0002101	.289135	.0022825	.0050105
%RSD	.9362624	1.314348	.4033811	3.118593	6.080760	5.847253	2.050371
#1	2.991582	6.487734	.2065622	.0067367	5.029084	.0371166	.2466663
#2	2.969561	6.597185	.2081865	.0065277	4.452838	.0384321	.2478232
#3	2.936418	6.428696	.2070306	.0069479	4.782828	.0415601	.2386243

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056318	2.294164	.3105181	.0046569	5.218245	3.261893	1.353018
Stddev	.048881	.004544	.0037916	.0002524	.013635	.067509	.003345
%RSD	2.377102	.1980547	1.221042	5.419165	.2612858	2.069634	.2472390
#1	2.041267	2.295973	.3135755	.0045554	5.230438	3.272762	1.349786
#2	2.110954	2.297525	.3117032	.0044711	5.220774	3.189609	1.356466
#3	2.016732	2.288994	.3062755	.0049442	5.203523	3.323309	1.352802

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-05LX5 Acquired: 2/2/2025 12:42:13 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7986699	.0862171	.2369098
Stddev	.0183016	.0004853	.0020330
%RSD	2.291503	.5628518	.8581405
#1	.8020843	.0861498	.2390026
#2	.7789017	.0857690	.2367846
#3	.8150239	.0867325	.2349423

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3653.909	72262.92	13261.29	2386.349	4247.229
Stddev	9.519	1125.40	182.12	34.780	4.005
%RSD	.2605156	1.557371	1.373296	1.457462	.0942957
#1	3642.964	71675.12	13241.74	2365.924	4249.332
#2	3658.500	71553.13	13452.40	2366.616	4249.744
#3	3660.262	73560.51	13089.74	2426.508	4242.610

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-07 Acquired: 2/2/2025 12:46:09 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8612000**	**.0649709**	**3.071147**	**.2650041**	**.1797636**	**165.0879**
Stddev	.0057716	.0025722	.015728	.0037961	.0011645	1.2279
%RSD	.6701822	3.959070	.5121113	1.432467	.6478091	.7437961
#1	.8630104	.0622313	3.088941	.2644018	.1797056	164.2260
#2	.8658493	.0653468	3.059107	.2690654	.1786292	164.5439
#3	.8547402	.0673344	3.065392	.2615452	.1809561	166.4939

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.672143**	**.1171972**	**.1117777**	**135.1847**	**6.716897**	**1.072698**
Stddev	.039499	.0010442	.0007082	1.0787	.086055	.004704
%RSD	.8454119	.8909883	.6335906	.7979232	1.281166	.4385554
#1	4.635535	.1169511	.1125943	134.3445	6.665137	1.078112
#2	4.666887	.1162979	.1113306	134.8085	6.669318	1.070370
#3	4.714006	.1183424	.1114083	136.4011	6.816235	1.069611

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.31542**	**324.8426**	**14.04672**	**28.62961**	**1.967327**	**.0947240**
Stddev	.00992	2.5705	.09880	.18194	.007988	.0005712
%RSD	.0961789	.7913150	.7033741	.6354851	.4060499	.6030334
#1	10.31634	323.0722	13.96532	28.55576	1.976531	.0946513
#2	10.30507	323.6646	14.01818	28.49621	1.962200	.0941926
#3	10.32485	327.7910	14.15664	28.83686	1.963249	.0953281

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.44560**	**1.122770**	**2.023533**	**8.363098**	F **11.51217**	**1.364005**
Stddev	.33215	.005784	.024506	.096415	.06208	.011429
%RSD	1.624557	.5151872	1.211046	1.152861	.5392794	.8379075
#1	20.07386	1.116974	1.998408	8.283704	11.58084	1.357704
#2	20.71321	1.122794	2.024822	8.335207	11.46000	1.357113
#3	20.54974	1.128543	2.047369	8.470384	11.49568	1.377198

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-07 Acquired: 2/2/2025 12:46:09 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6305S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0233509	F 26.00221	F 15.32888	6.501887	3.647746	.4063067
Stddev	.0001886	.16608	.04149	.030166	.005636	.0045566
%RSD	.8074994	.6387139	.2706971	.4639635	.1545055	1.121477
#1	.0233211	26.18074	15.34650	6.536577	3.654246	.4022479
#2	.0235526	25.85231	15.28149	6.487273	3.644215	.4054364
#3	.0231791	25.97356	15.35866	6.481811	3.644777	.4112357

Elem	Sr4077
Units	ppm
Avg	1.115103
Stddev	.008317
%RSD	.7458318
#1	1.108318
#2	1.112610
#3	1.124381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3505.728	71978.19	12882.83	2313.432	3850.221
Stddev	7.400	755.97	50.03	23.216	8.216
%RSD	.2110806	1.050276	.3883237	1.003539	.2134007
#1	3501.871	72480.11	12895.53	2331.151	3840.744
#2	3501.053	72345.74	12925.28	2321.995	3854.565
#3	3514.259	71108.73	12827.67	2287.151	3855.353

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-09 Acquired: 2/2/2025 12:50:02 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0443019	-.003688	1.071638	.0124558	.0050259	54.72222	.2013144
Stddev	.0016044	.001060	.003449	.0008038	.0007643	.44724	.0024296
%RSD	3.621453	28.75135	.3218125	6.453545	15.20639	.8172826	1.206859
#1	.0456655	-.004499	1.071582	.0133839	.0058905	55.12830	.2038264
#2	.0425341	-.002488	1.068218	.0120021	.0044407	54.24288	.1989766
#3	.0447060	-.004077	1.075115	.0119813	.0047465	54.79548	.2011402

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036166	.0019790	7.389594	.1598293	.0260142	.0463668	52.26772
Stddev	.0001186	.0001019	.054217	.0012784	.0001057	.0018607	.38202
%RSD	3.279512	5.149817	.7336935	.7998315	.4064077	4.012945	.7308841
#1	.0034802	.0020386	7.430781	.1609045	.0259065	.0475167	52.58715
#2	.0036954	.0020371	7.328169	.1584158	.0261178	.0473637	51.84455
#3	.0036743	.0018613	7.409832	.1601675	.0260182	.0442201	52.37147

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6467963	14.75515	.0901152	.0007185	1.419631	.1278432	.1876210
Stddev	.0053213	.08938	.0008269	.0002833	.086292	.0019095	.0012499
%RSD	.8227197	.6057800	.9175844	39.43464	6.078445	1.493612	.6662036
#1	.6513253	14.79996	.0896450	.0010088	1.519215	.1263558	.1872772
#2	.6409356	14.65222	.0896305	.0007037	1.366923	.1271773	.1890069
#3	.6481281	14.81326	.0910699	.0004428	1.372756	.1299965	.1865789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.642161	2.386601	.1907574	.0028359	4.787194	6.425653	.0136184
Stddev	.041974	.004999	.0023051	.0003046	.027360	.065896	.0011043
%RSD	1.152457	.2094529	1.208395	10.73891	.5715153	1.025509	8.108485
#1	3.670135	2.386128	.1924862	.0026891	4.778397	6.423488	.0134744
#2	3.593897	2.381856	.1881403	.0026326	4.765315	6.492605	.0125933
#3	3.662451	2.391820	.1916458	.0031861	4.817869	6.360867	.0147876

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-09 Acquired: 2/2/2025 12:50:02 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.069422	.1163114	.0446652
Stddev	.015748	.0007970	.0003252
%RSD	.5130602	.6852550	.7280127
#1	3.053837	.1172314	.0449636
#2	3.069101	.1158287	.0443186
#3	3.085328	.1158742	.0447133

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3737.028	74675.68	12218.96	2471.446	4199.594
Stddev	13.812	411.41	128.79	9.836	16.059
%RSD	.3695960	.5509301	1.054000	.3979691	.3823932
#1	3737.750	74488.15	12360.21	2464.952	4201.778
#2	3750.465	75147.44	12188.63	2482.762	4214.449
#3	3722.870	74391.44	12108.05	2466.624	4182.555

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-10 Acquired: 2/2/2025 12:53:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0434302	-.001427	1.075616	.0134126	.0071411	59.53043	.2276363
Stddev	.0011509	.001138	.003840	.0047361	.0012064	.07786	.0004863
%RSD	2.650101	79.79665	.3569779	35.31061	16.89323	.1307870	.2136486
#1	.0421433	-.002457	1.073903	.0079443	.0078264	59.61239	.2275885
#2	.0443610	-.000204	1.072931	.0160885	.0057482	59.52145	.2281449
#3	.0437862	-.001619	1.080014	.0162050	.0078487	59.45745	.2271757

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031304	.0017073	7.937168	.1593824	.0256769	.0449014	56.94960
Stddev	.0000556	.0000890	.026194	.0005443	.0000921	.0021220	.11558
%RSD	1.775549	5.215080	.3300158	.3415194	.3588566	4.725877	.2029486
#1	.0031932	.0018094	7.944026	.1594015	.0256938	.0465942	57.06602
#2	.0031104	.0016455	7.959250	.1588287	.0255774	.0425208	56.94790
#3	.0030876	.0016671	7.908227	.1599169	.0257594	.0455890	56.83488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6973706	16.14236	.0902213	.0019170	1.074814	.1286481	.1983379
Stddev	.0008409	.03103	.0003778	.0002035	.345160	.0021643	.0022061
%RSD	.1205829	.1922333	.4187284	10.61488	32.11344	1.682351	1.112274
#1	.6972777	16.17739	.0900023	.0020075	1.043396	.1309181	.2008852
#2	.6982540	16.11831	.0900041	.0020594	.746438	.1266077	.1970711
#3	.6965799	16.13138	.0906575	.0016839	1.434609	.1284187	.1970574

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.216361	2.387541	.2176298	.0026815	4.791597	6.662520	.0127092
Stddev	.089362	.014396	.0008069	.0002778	.017781	.044743	.0007449
%RSD	2.119408	.6029527	.3707575	10.36116	.3710875	.6715610	5.861397
#1	4.286349	2.382592	.2176673	.0023627	4.780692	6.711755	.0129205
#2	4.247031	2.376273	.2184172	.0028103	4.781984	6.651459	.0118814
#3	4.115702	2.403759	.2168048	.0028716	4.812115	6.624344	.0133256

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-10 Acquired: 2/2/2025 12:53:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.070337	.1281417	.0477948
Stddev	.003500	.0002335	.0000697
%RSD	.1140080	.1822153	.1457753
#1	3.074161	.1279134	.0477599
#2	3.067290	.1281315	.0477495
#3	3.069561	.1283801	.0478751

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3709.669	75533.14	13447.01	2471.564	4175.585
Stddev	7.494	270.80	19.42	13.867	13.041
%RSD	.2020172	.3585190	.1444380	.5610697	.3123253
#1	3717.857	75349.77	13426.05	2459.650	4188.394
#2	3708.001	75405.48	13450.55	2468.256	4176.038
#3	3703.150	75844.18	13464.41	2486.786	4162.323

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-09LX5 Acquired: 2/2/2025 12:57:58 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0094350**	**-.002451**	**.2143237**	**.0027123**	**.0011902**	**12.19057**	**.0481968**
Stddev	.0018897	.002422	.0014118	.0033815	.0005905	.16045	.0005701
%RSD	20.02824	98.81637	.6587105	124.6722	49.61486	1.316172	1.182870
#1	.0109939	-.000070	.2155018	-.001167	.0017527	12.25564	.0485288
#2	.0099779	-.004912	.2127588	.004271	.0005751	12.30827	.0485231
#3	.0073333	-.002372	.2147104	.005033	.0012429	12.00781	.0475385

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006731**	**.0002982**	**1.628811**	**.0330648**	**.0051139**	**.0108817**	**11.92858**
Stddev	.0000453	.0000394	.018198	.0011584	.0001550	.0006808	.13141
%RSD	6.730427	13.21556	1.117286	3.503312	3.030603	6.256305	1.101657
#1	.0006661	.0003364	1.641849	.0334027	.0049443	.0114970	11.96215
#2	.0007215	.0002577	1.636564	.0340166	.0052482	.0109977	12.03995
#3	.0006318	.0003006	1.608020	.0317750	.0051493	.0101503	11.78364

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1445987**	**3.310273**	**.0175669**	**.0008136**	**.2017775**	**.0268578**	**.0398882**
Stddev	.0009012	.042200	.0002787	.0003108	.1778411	.0016393	.0022561
%RSD	.6232510	1.274814	1.586252	38.20416	88.13721	6.103515	5.656067
#1	.1452397	3.312091	.0174922	.0007929	-.003432	.0275316	.0424440
#2	.1449881	3.351534	.0173332	.0011343	.311039	.0249890	.0390469
#3	.1435683	3.267193	.0178753	.0005136	.297725	.0280528	.0381735

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.062736**	**.4659456**	**.0397507**	**.0003884**	**.9220709**	**1.347082**	**.0026840**
Stddev	.010229	.0030127	.0005680	.0000936	.0053939	.026635	.0004502
%RSD	.9624754	.6465767	1.428882	24.09717	.5849796	1.977241	16.77444
#1	1.056193	.4673843	.0403908	.0002908	.9162674	1.327892	.0031886
#2	1.057492	.4624833	.0395543	.0003969	.9269308	1.377491	.0023234
#3	1.074523	.4679692	.0393069	.0004774	.9230145	1.335861	.0025401

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-09LX5 Acquired: 2/2/2025 12:57:58 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6389072	.0234776	.0098483
Stddev	.0121974	.0005912	.0000914
%RSD	1.909100	2.518078	.9280238
#1	.6272146	.0233338	.0099127
#2	.6515534	.0241275	.0098884
#3	.6379537	.0229716	.0097436

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3644.151	72638.01	12816.67	2404.964	4298.371
Stddev	8.535	909.25	216.36	40.388	10.745
%RSD	.2342016	1.251753	1.688107	1.679359	.2499686
#1	3654.002	72164.27	13031.13	2384.030	4309.195
#2	3639.476	72063.44	12598.46	2379.341	4287.707
#3	3638.975	73686.30	12820.42	2451.522	4298.212

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-11 Acquired: 2/2/2025 13:02:04 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1144916**	**.0986935**	**1.100248**	**.2040510**	**.1869423**	**57.60310**	**3.539936**
Stddev	.0013902	.0020340	.002883	.0012892	.0020085	.71831	.048863
%RSD	1.214275	2.060974	.2620313	.6318061	1.074398	1.246997	1.380344
#1	.1160906	.1010402	1.103577	.2050290	.1891953	58.10167	3.587127
#2	.1138151	.0974369	1.098537	.2025900	.1862921	56.77976	3.489557
#3	.1135690	.0976033	1.098632	.2045340	.1853394	57.92787	3.543123

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1145245**	**.1015620**	**7.366153**	**.5820005**	**1.022274**	**.5496728**	**53.85040**
Stddev	.0003587	.0003569	.108457	.0056422	.002206	.0010647	.65662
%RSD	.3131969	.3514217	1.472371	.9694445	.2157953	.1936873	1.219334
#1	.1145401	.1019203	7.465119	.5859865	1.024196	.5485807	54.31698
#2	.1148752	.1015592	7.250208	.5755446	1.022761	.5497299	53.09954
#3	.1141583	.1012065	7.383133	.5844705	1.019865	.5507077	54.13467

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.487760**	**14.70508**	**1.098040**	**.0752842**	**.7629034**	**1.107456**	**1.032681**
Stddev	.016501	.18911	.001833	.0005614	.0828975	.004257	.013284
%RSD	1.109122	1.286044	.1669169	.7457129	10.86605	.3843784	1.286391
#1	1.502950	14.78850	1.100033	.0756537	.8522662	1.112351	1.044281
#2	1.470203	14.48860	1.097660	.0746382	.6885115	1.104619	1.018189
#3	1.490127	14.83814	1.096427	.0755608	.7479325	1.105398	1.035574

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.630791**	**2.355541**	**.1986711**	**.0024649**	**4.708721**	**6.615246**	**.0127209**
Stddev	.038792	.009356	.0030677	.0001468	.010999	.058724	.0010462
%RSD	1.068427	.3971708	1.544094	5.953995	.2335883	.8877099	8.224282
#1	3.658115	2.364298	.1994766	.0023046	4.721422	6.682910	.0117570
#2	3.586390	2.356643	.1952811	.0024974	4.702387	6.577571	.0138335
#3	3.647869	2.345684	.2012557	.0025926	4.702355	6.585259	.0125723

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-11 Acquired: 2/2/2025 13:02:04 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6342S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.031336	.1164496	.0444411
Stddev	.018214	.0017288	.0005739
%RSD	.6008580	1.484595	1.291342
#1	3.051425	.1184321	.0447999
#2	3.026684	.1156609	.0437792
#3	3.015899	.1152558	.0447441

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.724	73831.48	12187.67	2446.981	4196.469
Stddev	3.305	601.56	27.18	23.141	3.649
%RSD	.0888440	.8147722	.2230005	.9457030	.0869601
#1	3720.147	73451.79	12197.03	2428.860	4192.823
#2	3716.227	74525.06	12157.05	2473.048	4196.463
#3	3722.796	73517.58	12208.93	2439.034	4200.122

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-01 Acquired: 2/2/2025 13:05:56 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6301 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.254088**	**-.026239**	**.5585754**	**.1076703**	**.0521579**	**105.7095**
Stddev	.004382	.001660	.0026256	.0051481	.0025136	1.1721
%RSD	.1943973	6.326135	.4700524	4.781347	4.819278	1.108817
#1	2.254371	-.026152	.5607256	.1030216	.0493999	104.3578
#2	2.249571	-.024624	.5556493	.1067862	.0543200	106.4450
#3	2.258321	-.027941	.5593512	.1132032	.0527539	106.3256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4141430**	**.0171802**	**.0193362**	**83.02756**	**4.400415**	**.0388840**
Stddev	.0039181	.0003558	.0003624	.75947	.048828	.0002896
%RSD	.9460857	2.070848	1.874001	.9147210	1.109612	.7447724
#1	.4096267	.0173882	.0196066	82.15060	4.344776	.0385590
#2	.4161683	.0167694	.0189245	83.46631	4.436128	.0389781
#3	.4166340	.0173830	.0194775	83.46577	4.420343	.0391148

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.38934**	**441.4064**	**1.645555**	**10.24357**	**1.267286**	**.0637569**
Stddev	.12756	6.8419	.015116	.06523	.003882	.0014515
%RSD	.8288750	1.550029	.9185916	.6367410	.3063332	2.276673
#1	15.43993	433.9416	1.628165	10.16946	1.270887	.0626285
#2	15.24425	447.3793	1.655543	10.26899	1.263173	.0653944
#3	15.48384	442.8984	1.652957	10.29225	1.267798	.0632478

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.361178**	**.1317862**	**6.477604**	**3.293429**	F **12.89394**	**1.861528**
Stddev	.154668	.0024869	.059685	.090928	.03897	.032482
%RSD	11.36281	1.887030	.9214065	2.760905	.3022653	1.744932
#1	1.508546	.1345917	6.418364	3.192008	12.88438	1.826330
#2	1.200120	.1298531	6.476722	3.367661	12.86064	1.890350
#3	1.374867	.1309138	6.537725	3.320618	12.93681	1.867904

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-01 Acquired: 2/2/2025 13:05:56 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6301 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0323666	F 43.97328	5.486196	1.553759	1.460793	.0460920
Stddev	.0004173	.13885	.037161	.006407	.011932	.0008224
%RSD	1.289293	.3157538	.6773604	.4123687	.8168192	1.784255
#1	.0319575	43.96102	5.485311	1.560196	1.469778	.0452540
#2	.0323505	43.84097	5.449484	1.547382	1.447255	.0461240
#3	.0327917	44.11785	5.523791	1.553699	1.465345	.0468979

Elem	Sr4077
Units	ppm
Avg	.4972730
Stddev	.0055498
%RSD	1.116049
#1	.4909104
#2	.5011163
#3	.4997923

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.675	71842.24	13632.54	2308.403	3956.825
Stddev	5.533	696.60	147.29	20.277	8.657
%RSD	.1601665	.9696190	1.080458	.8783888	.2187907
#1	3451.580	72646.09	13569.46	2328.397	3948.521
#2	3461.063	71465.10	13800.87	2308.957	3965.797
#3	3451.381	71415.54	13527.30	2287.855	3956.155

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-02 Acquired: 2/2/2025 13:09:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6302 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1134526**	**-.070273**	**.3511087**	**.0802245**	**.0444058**	**61.50344**
Stddev	.0025478	.001198	.0029213	.0015890	.0023879	.42804
%RSD	2.245660	1.704853	.8320091	1.980633	5.377408	.6959560
#1	.1149872	-.071634	.3504282	.0813597	.0471056	61.19194
#2	.1148589	-.069804	.3543101	.0809051	.0425706	61.99152
#3	.1105116	-.069380	.3485877	.0784086	.0435414	61.32687

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.335453**	**.0142021**	**.0130278**	**145.7155**	**3.582719**	**.9400697**
Stddev	.004502	.0000586	.0001576	.9352	.019107	.0072302
%RSD	.3371209	.4126826	1.209508	.6418093	.5333029	.7691119
#1	1.331132	.0142420	.0129344	145.1458	3.574501	.9371131
#2	1.340116	.0141348	.0132097	146.7948	3.604560	.9483096
#3	1.335112	.0142294	.0129393	145.2058	3.569096	.9347864

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.266927**	**372.2706**	F **98.95473**	**8.235729**	**2.467957**	**.0422281**
Stddev	.023106	2.3628	1.30026	.008201	.023181	.0003195
%RSD	.3179553	.6346999	1.313994	.0995830	.9392733	.7567069
#1	7.247366	370.7759	99.54065	8.230167	2.456809	.0421435
#2	7.260995	374.9946	99.85894	8.245148	2.494606	.0425814
#3	7.292420	371.0413	97.46461	8.231874	2.452456	.0419593

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.818112**	**.0458510**	**.7428192**	**5.820345**	**8.933866**	**1.591060**
Stddev	.230114	.0010882	.0041348	.071597	.092742	.011599
%RSD	12.65674	2.373392	.5566309	1.230116	1.038097	.7290248
#1	1.658881	.0469603	.7439237	5.799352	8.914478	1.584262
#2	2.081946	.0447852	.7462895	5.900092	9.034770	1.604453
#3	1.713510	.0458075	.7382443	5.761591	8.852350	1.584464

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-02 Acquired: 2/2/2025 13:09:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6302 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139243	F 16.36898	6.557993	.2951805	.9789643	.0426266
Stddev	.0006245	.13914	.046335	.0027382	.0048925	.0001365
%RSD	4.485334	.8500022	.7065404	.9276544	.4997600	.3203144
#1	.0140032	16.34105	6.565671	.2932390	.9776907	.0427285
#2	.0145057	16.51996	6.508299	.2983125	.9748347	.0424714
#3	.0132641	16.24593	6.600009	.2939900	.9843677	.0426798

Elem	Sr4077
Units	ppm
Avg	.7940727
Stddev	.0055907
%RSD	.7040585
#1	.7906590
#2	.8005246
#3	.7910343

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.091	73505.54	14415.83	2382.170	3905.133
Stddev	30.554	462.16	69.14	12.430	35.155
%RSD	.8407636	.6287406	.4795918	.5217778	.9002327
#1	3639.127	73843.65	14446.29	2386.312	3919.014
#2	3601.332	72978.92	14464.51	2368.199	3865.157
#3	3661.815	73694.05	14336.70	2392.001	3931.229

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-03 Acquired: 2/2/2025 13:13:57 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6303 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2020761	-.010762	.2587639	.0236059	.0120626	37.75991	.1513429
Stddev	.0012260	.002069	.0023355	.0013500	.0014503	.15975	.0019315
%RSD	.6067199	19.22320	.9025541	5.718863	12.02329	.4230626	1.276253
#1	.2034611	-.010369	.2567152	.0222284	.0121092	37.93404	.1535298
#2	.2016374	-.008918	.2582694	.0249266	.0105896	37.62013	.1498703
#3	.2011297	-.013000	.2613070	.0236628	.0134891	37.72558	.1506284

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020244	.0036389	11.67855	1.144334	.0638099	.3999728	97.73445
Stddev	.0000649	.0000768	.03609	.000954	.0001908	.0052334	.44192
%RSD	3.205616	2.110052	.3090357	.0833821	.2989695	1.308452	.4521635
#1	.0020965	.0036004	11.72008	1.145143	.0636782	.4059593	98.13584
#2	.0019707	.0037273	11.65479	1.144577	.0637228	.3962652	97.26088
#3	.0020059	.0035890	11.66078	1.143281	.0640286	.3976938	97.80663

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.420557	11.61886	.1702730	.0036731	.3170749	.1006360	.3127219
Stddev	.011086	.04442	.0003381	.0000134	.2197397	.0015710	.0023638
%RSD	.4579805	.3823078	.1985515	.3654529	69.30215	1.561072	.7558893
#1	2.431398	11.66091	.1703933	.0036849	.5609540	.1022922	.3145750
#2	2.409242	11.57240	.1698912	.0036760	.2557798	.0991669	.3100598
#3	2.421030	11.62329	.1705344	.0036585	.1344908	.1004490	.3135309

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.651165	2.328081	.3889443	.0178504	2.748171	5.099009	.0645403
Stddev	.036634	.005861	.0014784	.0001067	.016032	.082709	.0007546
%RSD	2.218667	.2517368	.3801053	.5979315	.5833575	1.622056	1.169135
#1	1.621999	2.323605	.3901596	.0179373	2.740616	5.194337	.0652553
#2	1.639214	2.325924	.3872984	.0178825	2.737312	5.056350	.0637516
#3	1.692282	2.334714	.3893749	.0177313	2.766584	5.046338	.0646141

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-03 Acquired: 2/2/2025 13:13:57 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6303 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.202746	.0627270	.0738272
Stddev	.033938	.0018345	.0003878
%RSD	1.540719	2.924623	.5252668
#1	2.241672	.0627306	.0742223
#2	2.187207	.0645597	.0734471
#3	2.179360	.0608907	.0738121

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3695.475	74771.00	13033.08	2420.877	4223.966
Stddev	10.878	114.63	140.39	10.083	13.541
%RSD	.2943593	.1533092	1.077220	.4165172	.3205799
#1	3704.470	74811.43	12874.86	2411.267	4236.336
#2	3698.569	74859.93	13081.59	2419.989	4226.063
#3	3683.385	74641.63	13142.78	2431.375	4209.499

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-04 Acquired: 2/2/2025 13:17:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6304 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1929726**	**-.008570**	**.2577881**	**.0215400**	**.0102191**	**33.63821**	**.1277518**
Stddev	.0015282	.001792	.0004352	.0039272	.0019003	.19432	.0012667
%RSD	.7919022	20.90529	.1688216	18.23215	18.59580	.5776900	.9915143
#1	.1930551	-.007931	.2582745	.0230375	.0080311	33.45588	.1263709
#2	.1914049	-.007185	.2576544	.0170843	.0111685	33.61611	.1280247
#3	.1944578	-.010594	.2574355	.0244981	.0114575	33.84264	.1288597

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018620**	**.0030968**	**9.313530**	**.9616867**	**.0591047**	**.3976705**	**86.46554**
Stddev	.0000722	.0000721	.075340	.0022275	.0001840	.0038151	.53017
%RSD	3.877200	2.328845	.8089356	.2316188	.3112467	.9593700	.6131546
#1	.0018738	.0031685	9.234505	.9629050	.0593015	.3947445	85.93425
#2	.0019276	.0030243	9.321539	.9591158	.0590753	.4019856	86.46779
#3	.0017846	.0030977	9.384546	.9630392	.0589371	.3962815	86.99458

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.005436**	**10.47801**	**.1489182**	**.0022933**	**-.117817**	**.0957390**	**.2541380**
Stddev	.015949	.06756	.0004547	.0003029	.486521	.0006009	.0023866
%RSD	.7953122	.6448030	.3053561	13.20622	412.9470	.6276413	.9391007
#1	1.989521	10.44672	.1493020	.0019762	-.382851	.0961804	.2558259
#2	2.005369	10.43176	.1490366	.0023240	.443676	.0950547	.2514075
#3	2.021419	10.55554	.1484159	.0025795	-.414276	.0959819	.2551806

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.237273**	**2.123728**	**.3389396**	**.0140964**	**2.472949**	**5.021236**	**.0678678**
Stddev	.049888	.004384	.0028843	.0003985	.009161	.035620	.0005360
%RSD	4.032107	.2064097	.8509807	2.826843	.3704374	.7093841	.7897417
#1	1.183830	2.127487	.3362091	.0143744	2.479175	4.981039	.0684401
#2	1.245374	2.118913	.3386534	.0136398	2.462430	5.048878	.0677859
#3	1.282615	2.124783	.3419564	.0142749	2.477242	5.033792	.0673775

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-04 Acquired: 2/2/2025 13:17:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6304 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.140457	.0504554	.0605047
Stddev	.007961	.0010604	.0003106
%RSD	.3719147	2.101620	.5133724
#1	2.133060	.0501995	.0602787
#2	2.148881	.0495465	.0603764
#3	2.139428	.0516204	.0608588

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3676.823	72834.66	12288.11	2380.125	4220.117
Stddev	5.566	165.99	67.68	12.903	6.756
%RSD	.1513894	.2278949	.5507705	.5421109	.1600873
#1	3679.153	72951.67	12271.05	2367.635	4218.212
#2	3670.471	72907.62	12230.59	2393.405	4214.517
#3	3680.846	72644.69	12362.69	2379.335	4227.620

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-08 Acquired: 2/2/2025 13:21:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6306 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1607158	-.004362	1.659721	.0247516	-.037974	53.66747	.2262236
Stddev	.0047156	.003967	.004184	.0018770	.001749	.31736	.0022127
%RSD	2.934151	90.94608	.2520725	7.583242	4.605494	.5913441	.9781098
#1	.1614144	-.006559	1.660797	.0250789	-.039991	53.33474	.2251352
#2	.1556899	.000218	1.655104	.0264433	-.037050	53.96682	.2287697
#3	.1650432	-.006745	1.663261	.0227325	-.036880	53.70085	.2247659

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020669	.0020756	6.377031	7.457907	.0299469	5.357684	110.1579
Stddev	.0000208	.0000358	.049351	.012859	.0005062	.031002	.6365
%RSD	1.007300	1.723459	.7738894	.1724225	1.690169	.5786377	.5778099
#1	.0020441	.0021168	6.342706	7.449364	.0295460	5.352732	109.4822
#2	.0020849	.0020525	6.433587	7.472696	.0297789	5.329456	110.7462
#3	.0020716	.0020575	6.354798	7.451660	.0305156	5.390863	110.2454

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.051796	16.01426	.1642973	.0232456	-.217800	.1337081	.2090355
Stddev	.004906	.11690	.0002319	.0003050	.186879	.0025446	.0013896
%RSD	.4664641	.7300019	.1411391	1.312124	85.80276	1.903075	.6647444
#1	1.048548	15.89423	.1645213	.0229525	-.079918	.1333463	.2074750
#2	1.057440	16.12777	.1640582	.0232230	-.430495	.1364142	.2101391
#3	1.049401	16.02077	.1643123	.0235613	-.142988	.1313639	.2094923

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.062726	4.519498	.4524325	.0094038	2.141773	6.373156	9.863783
Stddev	.108364	.009594	.0040868	.0002509	.005841	.009024	.032518
%RSD	2.140425	.2122695	.9033027	2.668105	.2727293	.1415882	.3296698
#1	4.937987	4.515558	.4478741	.0095457	2.146951	6.376000	9.896475
#2	5.133628	4.512502	.4557691	.0091141	2.135441	6.380415	9.831443
#3	5.116564	4.530434	.4536544	.0095516	2.142927	6.363053	9.863431

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-08 Acquired: 2/2/2025 13:21:55 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6306 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.368150	.0894685	.0263987
Stddev	.003587	.0008865	.0000978
%RSD	.1065000	.9908285	.3704221
#1	3.368721	.0889542	.0262864
#2	3.371418	.0904922	.0264447
#3	3.364312	.0889593	.0264651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3650.781	74525.78	13735.56	2409.883	4244.480
Stddev	7.806	240.20	63.07	8.583	10.629
%RSD	.2138274	.3223102	.4591584	.3561561	.2504242
#1	3642.562	74774.11	13691.67	2417.057	4232.276
#2	3658.096	74294.62	13807.83	2412.218	4251.713
#3	3651.685	74508.62	13707.19	2400.375	4249.452

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-09 Acquired: 2/2/2025 13:25:52 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6307 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3509497**	**-.017644**	**.6258822**	**.0418017**	**.0176193**	**109.9248**
Stddev	.0009662	.002324	.0023812	.0002598	.0011336	1.4238
%RSD	.2753256	13.17117	.3804561	.6214621	6.433863	1.295239
#1	.3505044	-.016518	.6259150	.0420365	.0185205	111.5689
#2	.3502864	-.016098	.6234848	.0415226	.0163465	109.1035
#3	.3520583	-.020317	.6282469	.0418461	.0179907	109.1021

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1809780**	**.0098723**	**.0068444**	**10.88483**	**.3049824**	**.2034065**
Stddev	.0017378	.0001340	.0001732	.09658	.0040899	.0006364
%RSD	.9602144	1.357178	2.529763	.8872783	1.341022	.3128534
#1	.1829742	.0099776	.0068284	10.99628	.3096777	.2037756
#2	.1801565	.0097215	.0066799	10.82565	.3021955	.2026717
#3	.1798032	.0099178	.0070250	10.83255	.3030740	.2037722

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1021366**	**130.9209**	**1.967994**	**12.20124**	**.1558033**	**.0029842**
Stddev	.0014680	1.7182	.022684	.16571	.0004339	.0007169
%RSD	1.437238	1.312425	1.152631	1.358176	.2785110	24.02244
#1	.1006586	132.9045	1.994092	12.39177	.1562232	.0031563
#2	.1021569	129.8907	1.956873	12.12133	.1553566	.0035994
#3	.1035943	129.9676	1.953016	12.09063	.1558299	.0021970

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.939727**	**.2038918**	**.1797948**	**2.771965**	**9.918692**	**.5032270**
Stddev	.203681	.0018527	.0029477	.068255	.034376	.0091170
%RSD	10.50051	.9086680	1.639487	2.462332	.3465750	1.811713
#1	1.741192	.2029453	.1818356	2.836882	9.954451	.5136853
#2	1.929797	.2060265	.1811336	2.700802	9.885891	.4990414
#3	2.148192	.2027035	.1764153	2.778210	9.915735	.4969544

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-09 Acquired: 2/2/2025 13:25:52 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6307 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157958	F 18.44637	5.180971	.0683250	2.253814	.1173399
Stddev	.0003047	.04973	.006595	.0006504	.005342	.0014706
%RSD	1.928963	.2696093	.1272934	.9519576	.2370112	1.253248
#1	.0158772	18.48974	5.174372	.0689932	2.252014	.1189079
#2	.0154587	18.39209	5.180979	.0676939	2.249604	.1159915
#3	.0160516	18.45728	5.187562	.0682881	2.259823	.1171202

Elem	Sr4077
Units	ppm
Avg	.0841791
Stddev	.0009879
%RSD	1.173517
#1	.0853189
#2	.0836466
#3	.0835717

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4505.048	90080.36	14985.91	2910.666	4101.070
Stddev	2.638	973.78	59.64	39.901	2.982
%RSD	.0585485	1.081009	.3979905	1.370843	.0727180
#1	4508.059	88963.19	15029.77	2864.776	4097.967
#2	4503.941	90749.40	15009.97	2937.160	4103.915
#3	4503.145	90528.48	14918.00	2930.063	4101.327

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-10 Acquired: 2/2/2025 13:29:48 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6308 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5080831**	**.0077605**	**2.909058**	**.0202002**	**-.491144**	**17.99816**
Stddev	.0019867	.0009057	.002995	.0016139	.002253	.14894
%RSD	.3910105	11.67071	.1029591	7.989553	.4587949	.8275469
#1	.5057896	.0072147	2.912414	.0213229	-.490974	18.05838
#2	.5092744	.0088059	2.908104	.0183507	-.488980	17.82853
#3	.5091852	.0072607	2.906656	.0209270	-.493478	18.10756

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1690440**	**-.000093**	**.0019989**	**5.809733**	F **46.00585**	**.0150404**
Stddev	.0015134	.000032	.0000517	.060713	.16360	.0002851
%RSD	.8952756	34.11197	2.586217	1.045018	.3556104	1.895584
#1	.1697955	-.000107	.0020070	5.817496	46.10591	.0147252
#2	.1673019	-.000116	.0020461	5.745512	45.81705	.0151159
#3	.1700345	-.000057	.0019436	5.866191	46.09458	.0152802

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.717806**	**99.62737**	**.4286299**	**4.879565**	**.0606376**	**.0754498**
Stddev	.004006	.77719	.0053485	.051914	.0006165	.0007624
%RSD	.2331863	.7801012	1.247810	1.063905	1.016739	1.010446
#1	1.720098	100.0076	.4311315	4.928668	.0611773	.0758461
#2	1.720139	98.7333	.4224890	4.825236	.0599657	.0745709
#3	1.713180	100.1412	.4322691	4.884792	.0607697	.0759324

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0770323**	**.1872981**	**-.040669**	**2.763263**	**8.093262**	**.3911595**
Stddev	.4397879	.0006056	.002297	.022807	.011325	.0039011
%RSD	570.9135	.3233257	5.648200	.8253654	.1399368	.9973295
#1	-.417230	.1866100	-.039089	2.780830	8.105268	.3923175
#2	.425120	.1875342	-.043305	2.737488	8.082770	.3868104
#3	.223207	.1877501	-.039615	2.771473	8.091749	.3943504

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-10 Acquired: 2/2/2025 13:29:48 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6308 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0464547	6.192775	4.895689	F 65.40243	2.663689	.0175381
Stddev	.0001012	.014346	.024485	.09031	.012950	.0013536
%RSD	.2178028	.2316505	.5001317	.1380861	.4861541	7.717785
#1	.0465714	6.191130	4.916495	65.47751	2.677145	.0160611
#2	.0464001	6.179322	4.868708	65.42758	2.651314	.0178338
#3	.0463925	6.207872	4.901864	65.30221	2.662608	.0187193

Elem	Sr4077
Units	ppm
Avg	.0369641
Stddev	.0002584
%RSD	.6991387
#1	.0369426
#2	.0367171
#3	.0372326

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3018.502	72125.36	12215.05	2306.942	4214.874
Stddev	.717	352.19	106.62	7.272	5.064
%RSD	.0237586	.4883030	.8728544	.3152096	.1201495
#1	3019.129	71726.43	12138.19	2299.340	4210.967
#2	3018.657	72393.21	12170.20	2313.831	4213.060
#3	3017.720	72256.45	12336.77	2307.653	4220.596

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-11 Acquired: 2/2/2025 13:33:51 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6309 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0934782	-.009001	.1719255	.0264652	.0120565	36.52707	.2287916
Stddev	.0013881	.000986	.0039441	.0021453	.0015470	.09660	.0004393
%RSD	1.484922	10.95354	2.294066	8.106200	12.83146	.2644603	.1920174
#1	.0919119	-.009966	.1713663	.0240832	.0122039	36.63831	.2282845
#2	.0939666	-.009042	.1682908	.0282451	.0104411	36.46439	.2290332
#3	.0945560	-.007996	.1761193	.0270672	.0135246	36.47850	.2290570

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018612	.0038460	12.15055	.2370191	.0495649	.2161514	103.7182
Stddev	.0001038	.0000549	.02706	.0009163	.0003779	.0031299	.1551
%RSD	5.578598	1.428039	.2227355	.3866027	.7624746	1.448019	.1495838
#1	.0018620	.0038850	12.16225	.2363194	.0495747	.2174624	103.8588
#2	.0017570	.0037832	12.16980	.2366815	.0491821	.2184126	103.5518
#3	.0019646	.0038698	12.11961	.2380563	.0499378	.2125791	103.7441

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.047139	15.79114	.1535771	.0058371	1.980507	.1019004	.6181084
Stddev	.001497	.02808	.0005609	.0001289	.126189	.0012741	.0072459
%RSD	.1429843	.1778389	.3652358	2.208575	6.371526	1.250305	1.172270
#1	1.046780	15.76323	.1540059	.0057659	2.114980	.1030654	.6106702
#2	1.045854	15.79078	.1529423	.0059859	1.864677	.1020958	.6251452
#3	1.048783	15.81939	.1537832	.0057595	1.961866	.1005399	.6185098

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.372685	3.125618	.4038725	.0056058	2.493411	5.910042	.0446222
Stddev	.033455	.011824	.0003535	.0002260	.012641	.016616	.0004839
%RSD	.9919260	.3782772	.0875199	4.032297	.5069591	.2811477	1.084511
#1	3.409213	3.120012	.4035709	.0054241	2.484422	5.927202	.0446181
#2	3.343536	3.117640	.4037851	.0058589	2.487948	5.894030	.0441404
#3	3.365307	3.139202	.4042614	.0055343	2.507865	5.908894	.0451082

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-11 Acquired: 2/2/2025 13:33:51 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6309 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.102175	.0782712	.0699303
Stddev	.001917	.0007495	.0002481
%RSD	.0911982	.9575644	.3548155
#1	2.103857	.0790889	.0702137
#2	2.102581	.0781079	.0697519
#3	2.100087	.0776169	.0698253

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3619.445	71871.28	12989.10	2349.020	4097.867
Stddev	11.903	145.92	33.99	11.697	13.233
%RSD	.3288557	.2030260	.2616940	.4979507	.3229127
#1	3617.993	72036.02	13027.97	2361.462	4099.686
#2	3632.008	71758.31	12964.95	2338.248	4110.095
#3	3608.336	71819.50	12974.37	2347.349	4083.819

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV034 Acquired: 2/2/2025 13:37:51 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.921747**	**4.981659**	**24.33898**	**4.997848**	**5.041212**	**404.4308**
Stddev	.032449	.029431	.15288	.018786	.029043	2.0708
%RSD	.6593053	.5907936	.6281169	.3758798	.5761038	.5120252
#1	4.884608	5.006665	24.16949	4.977617	5.010458	402.8549
#2	4.936021	4.949226	24.38097	5.001186	5.045008	403.6613
#3	4.944613	4.989087	24.46647	5.014741	5.068170	406.7762

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.657770**	**.5099421**	**2.463532**	**394.3942**	**15.75206**	**2.474011**
Stddev	.167168	.0081661	.012530	3.0185	.02761	.016759
%RSD	1.730913	1.601382	.5086236	.7653588	.1752631	.6774007
#1	9.466155	.5008575	2.449610	396.2940	15.76466	2.454951
#2	9.773766	.5166725	2.467082	395.9750	15.72040	2.480646
#3	9.733390	.5122964	2.473904	390.9135	15.77111	2.486437

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.39304**	**403.1097**	**14.47217**	**391.8630**	**2.469800**	**1.305841**
Stddev	.31759	1.8506	.06243	1.7420	.015581	.001868
%RSD	2.063223	.4590742	.4313989	.4445414	.6308660	.1430601
#1	15.02845	401.2570	14.40898	390.0064	2.452358	1.305675
#2	15.60956	403.1139	14.47372	392.1209	2.474698	1.304061
#3	15.54112	404.9581	14.53382	393.4616	2.482343	1.307787

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**361.6978**	**2.410923**	**15.04749**	**154.8377**	**4.912665**	F **5.964300**
Stddev	7.0751	.044035	.06053	.7946	.023834	.070892
%RSD	1.956092	1.826460	.4022665	.5131957	.4851541	1.188603
#1	353.5284	2.361746	15.11601	154.1272	4.885696	5.884238
#2	365.8374	2.446703	15.00129	154.6901	4.921401	6.019101
#3	365.7276	2.424320	15.02516	155.6957	4.930899	5.989562

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV034 Acquired: 2/2/2025 13:37:51 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV034 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.918861**	**5.011543**	**4.681072**	**4.920614**	**4.836183**	**4.937876**
Stddev	.029257	.017246	.088589	.022432	.095879	.027732
%RSD	.5947955	.3441216	1.892485	.4558758	1.982544	.5616126
#1	4.885950	4.991630	4.582372	4.895657	4.726153	4.921569
#2	4.928709	5.021366	4.753697	4.927090	4.901822	4.922163
#3	4.941923	5.021633	4.707147	4.939096	4.880575	4.969896

Elem	Sr4077
Units	ppm
Avg	**5.268229**
Stddev	.014026
%RSD	.2662323
#1	5.279658
#2	5.272452
#3	5.252577

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2864.656**	**58230.29**	**11293.78**	**1867.942**	**3175.764**
Stddev	15.049	56.32	201.64	8.714	16.609
%RSD	.5253161	.0967167	1.785452	.4664824	.5230012
#1	2881.500	58276.84	11517.64	1858.228	3194.839
#2	2859.933	58246.33	11126.39	1870.527	3167.955
#3	2852.536	58167.69	11237.31	1875.070	3164.499

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB034 Acquired: 2/2/2025 13:42:09 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010395**	**-.002304**	**.0002317**	**-.000099**	**.0001363**	**.0164156**	**.0035599**
Stddev	.0010180	.001142	.0006462	.001317	.0012269	.0072862	.0006921
%RSD	97.93572	49.58296	278.8720	1328.275	900.3986	44.38586	19.44153
#1	.0019979	-.003397	.0008291	-.001000	-.001054	.0214633	.0029333
#2	-.000029	-.001118	.0003203	-.000711	.001396	.0197210	.0043028
#3	.001150	-.002396	-.000454	.001413	.000067	.0080626	.0034436

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000516**	**.0001123**	**.0096780**	**.0006641**	**.0000904**	**.0008667**	**.0181655**
Stddev	.0000448	.0000120	.0047449	.0002914	.0002082	.0004455	.0079764
%RSD	86.77577	10.68015	49.02725	43.87963	230.3447	51.40278	43.90968
#1	.0000260	.0001018	.0086966	.0004103	-.000107	.0003529	.0164836
#2	.0001034	.0001253	.0055006	.0009823	.000071	.0011020	.0111642
#3	.0000255	.0001097	.0148369	.0005996	.000308	.0011452	.0268488

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004495**	**-.007866**	**.0000972**	**.0007172**	**-.395996**	**-.002566**	**.0012746**
Stddev	.0001506	.010901	.0002129	.0003379	.255349	.000380	.0028767
%RSD	33.49377	138.5826	219.1813	47.11432	64.48285	14.82248	225.6874
#1	.0005945	-.011461	.0001754	.0007062	-.141338	-.002174	.0003293
#2	.0002940	.004378	.0002599	.0010604	-.394619	-.002591	-.001010
#3	.0004599	-.016516	-.000144	.0003849	-.652031	-.002933	.004505

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2910594**	**.0000174**	**-.001634**	**.0002258**	**.0000211**	**.0032833**	**.0002848**
Stddev	.0367695	.0015361	.000263	.0000465	.0030240	.0008858	.0007048
%RSD	12.63299	8827.542	16.08605	20.59956	14349.15	26.97824	247.5187
#1	.2878013	-.001272	-.001352	.0002525	-.001099	.0023119	.0001302
#2	.2560274	-.000392	-.001678	.0001721	.003445	.0040463	-.000330
#3	.3293495	.001717	-.001871	.0002529	-.002283	.0034916	.001054

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB034 Acquired: 2/2/2025 13:42:09 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB034 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0022268	-.003972	.0001973
Stddev	.0002760	.000096	.0000618
%RSD	12.39491	2.425287	31.32753
#1	.0020861	-.004047	.0001592
#2	.0020495	-.003863	.0001640
#3	.0025448	-.004007	.0002686

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3592.512	70844.52	12466.43	2286.533	4350.448
Stddev	3.749	260.32	76.91	5.995	8.598
%RSD	.1043660	.3674479	.6169520	.2621770	.1976379
#1	3588.745	70546.19	12554.93	2283.494	4346.343
#2	3596.244	70961.83	12415.71	2282.666	4360.329
#3	3592.545	71025.54	12428.66	2293.438	4344.671

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-12 Acquired: 2/2/2025 13:46:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6320 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0249554	-.005010	.0495504	.0151032	.0076898	69.82286	.1968092
Stddev	.0026937	.001313	.0014339	.0026005	.0013225	.69424	.0016692
%RSD	10.79414	26.21543	2.893755	17.21805	17.19753	.9942912	.8481368
#1	.0255052	-.003856	.0508766	.0166069	.0072673	70.34501	.1983006
#2	.0220292	-.004734	.0497457	.0121004	.0066302	70.08855	.1971208
#3	.0273318	-.006439	.0480288	.0166023	.0091719	69.03501	.1950061

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029433	.0010279	7.890302	.1876444	.0367235	.0467424	62.88416
Stddev	.0000473	.0000932	.104038	.0016450	.0001034	.0019692	.63538
%RSD	1.606801	9.065037	1.318560	.8766575	.2816239	4.212828	1.010390
#1	.0029283	.0011156	7.966348	.1881068	.0366155	.0455746	63.33187
#2	.0029053	.0009300	7.932820	.1890087	.0367335	.0490159	63.16367
#3	.0029962	.0010382	7.771739	.1858177	.0368216	.0456366	62.15695

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5205809	18.16642	.1138944	.0022866	.8011477	.1076113	.1598842
Stddev	.0066279	.12453	.0004851	.0000530	.3037847	.0008816	.0020519
%RSD	1.273172	.6855089	.4259603	2.316879	37.91869	.8192707	1.283397
#1	.5245278	18.22462	.1135236	.0022610	.6740870	.1066966	.1622512
#2	.5242859	18.25119	.1137161	.0022514	.5815229	.1084556	.1587913
#3	.5129289	18.02344	.1144434	.0023476	1.147833	.1076815	.1586099

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.166622	2.141585	.2384352	.0011601	.9989709	8.861436	.0115033
Stddev	.065377	.008021	.0036820	.0000990	.0071148	.062409	.0007654
%RSD	2.064577	.3745525	1.544233	8.537194	.7122145	.7042753	6.653854
#1	3.206939	2.132616	.2415611	.0012744	.9938016	8.801086	.0116046
#2	3.201736	2.144066	.2393679	.0010992	1.007085	8.925718	.0106922
#3	3.091190	2.148073	.2343765	.0011067	.996026	8.857505	.0122129

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-12 Acquired: 2/2/2025 13:46:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6320 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.423285	.1596575	.0446005
Stddev	.013127	.0031145	.0004873
%RSD	.3834609	1.950735	1.092683
#1	3.408144	.1624927	.0448903
#2	3.430235	.1601560	.0448734
#3	3.431475	.1563238	.0440379

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.728	71712.96	12410.09	2383.437	4087.287
Stddev	6.192	592.47	100.66	28.721	12.885
%RSD	.1709747	.8261683	.8111528	1.205015	.3152373
#1	3621.329	71538.63	12525.59	2384.348	4094.293
#2	3628.110	71227.21	12341.05	2354.272	4095.151
#3	3615.745	72373.04	12363.62	2411.692	4072.418

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-13 Acquired: 2/2/2025 13:50:18 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6321 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2791437**	**.0006983**	**1.351080**	**.0220811**	**.0293090**	**70.67161**
Stddev	.0048644	.0005732	.017110	.0024110	.0039612	.21997
%RSD	1.742609	82.08971	1.266359	10.91895	13.51515	.3112629
#1	.2840360	.0012221	1.369811	.0205885	.0325363	70.42913
#2	.2743077	.0000860	1.336275	.0207921	.0248884	70.72736
#3	.2790875	.0007867	1.347153	.0248626	.0305023	70.85835

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4551214**	**.0036267**	**.0032919**	**13.20934**	**28.38670**	**.0453774**
Stddev	.0027923	.0001686	.0001512	.05884	.19999	.0006361
%RSD	.6135239	4.650006	4.591884	.4454292	.7045108	1.401789
#1	.4520452	.0038201	.0034663	13.14471	28.59726	.0459003
#2	.4558233	.0035499	.0031987	13.22350	28.36351	.0446692
#3	.4574958	.0035102	.0032106	13.25981	28.19931	.0455626

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.85834**	**86.29759**	**1.316318**	**18.63056**	**.4115356**	**.0390777**
Stddev	.10959	.26730	.006380	.00819	.0045521	.0004148
%RSD	.7375380	.3097385	.4846617	.0439538	1.106124	1.061386
#1	14.93619	86.02429	1.309010	18.62533	.4166040	.0392253
#2	14.90581	86.31004	1.320774	18.64000	.4077952	.0386094
#3	14.73303	86.55845	1.319171	18.62636	.4102076	.0393985

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.614557**	**.2039936**	**.3964094**	**6.565378**	**5.333115**	**.3438736**
Stddev	.373583	.0028757	.0037184	.027919	.069972	.0012680
%RSD	23.13843	1.409692	.9380068	.4252421	1.312029	.3687450
#1	1.279231	.2072177	.3947041	6.533783	5.413047	.3428452
#2	2.017234	.2016934	.3938496	6.575628	5.282942	.3434853
#3	1.547206	.2030697	.4006745	6.586724	5.303355	.3452904

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-13 Acquired: 2/2/2025 13:50:18 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6321 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0157638	F 11.90763	F 10.26254	F 12.25142	3.448267	.2189505
Stddev	.0005575	.14428	.04562	.14980	.018758	.0013549
%RSD	3.536286	1.211621	.4445571	1.222742	.5439927	.6187942
#1	.0162549	12.06584	10.25991	12.41566	3.450696	.2178857
#2	.0151579	11.78333	10.30942	12.12229	3.465692	.2184905
#3	.0158787	11.87372	10.21829	12.21632	3.428412	.2204755

Elem	Sr4077
Units	ppm
Avg	.1133499
Stddev	.0004035
%RSD	.3559506
#1	.1129051
#2	.1134523
#3	.1136924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.564	72933.44	12428.71	2378.304	4115.413
Stddev	35.281	149.17	127.78	3.206	43.359
%RSD	1.041800	.2045299	1.028111	.1347909	1.053575
#1	3347.776	72761.52	12313.07	2379.163	4068.107
#2	3416.747	73028.63	12407.18	2374.756	4153.266
#3	3395.167	73010.17	12565.89	2380.993	4124.865

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-14 Acquired: 2/2/2025 13:54:22 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6322 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.753212**	**-.093312**	**1.276025**	**.1922804**	**.1328287**	**121.0171**
Stddev	.005407	.005383	.006167	.0073326	.0027693	1.6654
%RSD	.3084009	5.769174	.4832869	3.813514	2.084840	1.376210
#1	1.754255	-.098892	1.268930	.2003103	.1305635	122.4951
#2	1.747360	-.088149	1.279041	.1859399	.1359159	119.2126
#3	1.758022	-.092894	1.280103	.1905911	.1320065	121.3436

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.450935**	**.0128372**	**.0459000**	**74.24944**	**16.50228**	**.2103315**
Stddev	.018843	.0002215	.0007537	.93716	.26578	.0013195
%RSD	1.298670	1.725247	1.642007	1.262175	1.610561	.6273460
#1	1.465283	.0130650	.0450729	75.05882	16.72595	.2090608
#2	1.429596	.0128239	.0465479	73.22270	16.20846	.2102388
#3	1.457925	.0126226	.0460792	74.46681	16.57243	.2116949

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.967469**	F **863.4941**	**9.705753**	**29.29543**	**.7630990**	**.0319626**
Stddev	.120556	13.8024	.122891	.42868	.0016509	.0004350
%RSD	1.513109	1.598440	1.266165	1.463302	.2163380	1.360961
#1	8.065983	877.6897	9.811690	29.63104	.7611932	.0324452
#2	8.003389	850.1217	9.571021	28.81252	.7640869	.0318418
#3	7.833035	862.6710	9.734548	29.44274	.7640171	.0316007

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.298854**	**.3715194**	**2.325703**	**12.98695**	F **18.82624**	**3.271530**
Stddev	.472172	.0040985	.039651	.12636	.04492	.062355
%RSD	5.077740	1.103171	1.704886	.9730075	.2385812	1.905980
#1	9.716904	.3752138	2.361299	13.08969	18.77640	3.329287
#2	8.786726	.3722337	2.282968	12.84585	18.83875	3.205420
#3	9.392931	.3671107	2.332842	13.02531	18.86358	3.279884

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-14 Acquired: 2/2/2025 13:54:22 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6322 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0308717	F 42.92173	F 19.26516	2.926761	4.593640	.2666998
Stddev	.0005512	.08691	.24162	.009538	.072316	.0039868
%RSD	1.785493	.2024932	1.254160	.3258990	1.574272	1.494867
#1	.0306654	42.82137	19.42574	2.916252	4.647183	.2699599
#2	.0304534	42.97169	19.38244	2.934870	4.622363	.2622549
#3	.0314963	42.97213	18.98728	2.929161	4.511375	.2678846

Elem	Sr4077
Units	ppm
Avg	.5275231
Stddev	.0078407
%RSD	1.486318
#1	.5349269
#2	.5193086
#3	.5283338

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3522.264	74125.00	13371.70	2349.824	3778.682
Stddev	8.377	924.35	183.47	38.879	7.590
%RSD	.2378380	1.247019	1.372098	1.654568	.2008659
#1	3522.128	73343.32	13249.39	2310.071	3785.231
#2	3513.956	75145.25	13283.04	2387.766	3770.364
#3	3530.709	73886.42	13582.66	2351.635	3780.452

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-15 Acquired: 2/2/2025 13:58:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6323 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2239451**	**-.000590**	**7.264617**	**.0185514**	**-.057008**	**53.22239**
Stddev	.0022007	.001640	.054241	.0023159	.002008	.69175
%RSD	.9826835	277.9484	.7466514	12.48379	3.522256	1.299729
#1	.2257675	-.002181	7.284977	.0197424	-.059276	53.99155
#2	.2215002	.001095	7.203141	.0200294	-.055457	53.02436
#3	.2245675	-.000683	7.305732	.0158823	-.056291	52.65125

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3596653**	**.0033151**	**.0073312**	**11.99477**	**17.38216**	**.0462098**
Stddev	.0057996	.0000875	.0000765	.17988	.12378	.0005325
%RSD	1.612493	2.638578	1.043477	1.499627	.7121246	1.152384
#1	.3663618	.0033760	.0072586	12.20067	17.51376	.0463913
#2	.3562662	.0033545	.0073241	11.91545	17.36466	.0456103
#3	.3563679	.0032149	.0074111	11.86818	17.26806	.0466279

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **72.91043**	**75.78990**	**.6704123**	**11.95497**	**2.610205**	**.1041070**
Stddev	.21264	.92132	.0103904	.10850	.021593	.0005252
%RSD	.2916492	1.215622	1.549847	.9076111	.8272474	.5044538
#1	73.10217	76.80526	.6823707	12.07102	2.618251	.1047054
#2	72.94739	75.55721	.6652745	11.93785	2.585744	.1037230
#3	72.68173	75.00724	.6635918	11.85605	2.626619	.1038924

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.676541**	**.1261604**	**9.027226**	**3.492253**	**5.583975**	**.3205676**
Stddev	.243835	.0004029	.089301	.019181	.058955	.0042552
%RSD	14.54394	.3193388	.9892436	.5492307	1.055791	1.327382
#1	1.401642	.1257375	9.128060	3.513470	5.595912	.3252321
#2	1.866703	.1262040	8.995492	3.487147	5.519965	.3195729
#3	1.761278	.1265397	8.958126	3.476142	5.636049	.3168980

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-15 Acquired: 2/2/2025 13:58:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6323 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158339	F 50.22781	7.648569	F 16.36857	2.521682	.1479670
Stddev	.0002307	.48717	.052636	.15496	.014207	.0032232
%RSD	1.457165	.9699139	.6881787	.9467214	.5633875	2.178348
#1	.0158147	50.37503	7.698918	16.41059	2.537816	.1516877
#2	.0160737	49.68401	7.652878	16.19693	2.516186	.1461872
#3	.0156134	50.62439	7.593911	16.49819	2.511045	.1460260

Elem	Sr4077
Units	ppm
Avg	.1030754
Stddev	.0010849
%RSD	1.052545
#1	.1042895
#2	.1027356
#3	.1022010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3457.330	74142.52	13590.51	2360.536	4120.110
Stddev	21.025	677.69	38.48	11.750	29.053
%RSD	.6081391	.9140386	.2831229	.4977514	.7051410
#1	3448.513	73434.48	13608.90	2351.249	4113.609
#2	3481.329	74207.96	13546.28	2356.614	4151.863
#3	3442.150	74785.12	13616.33	2373.744	4094.859

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-16 Acquired: 2/2/2025 14:02:18 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6324 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3408121**	**-.011471**	**.4597397**	**.0455063**	**.0159366**	**91.40988**
Stddev	.0016668	.004456	.0019766	.0015308	.0013208	.59121
%RSD	.4890563	38.84360	.4299501	3.363888	8.287777	.6467630
#1	.3427280	-.016599	.4605199	.0471632	.0145012	91.61793
#2	.3400126	-.009265	.4574920	.0452110	.0171006	91.86893
#3	.3396957	-.008548	.4612072	.0441446	.0162079	90.74277

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9634252**	**.0073537**	**.0087356**	**122.9709**	**.2388997**	**.0604717**
Stddev	.0067497	.0001858	.0000523	.7988	.0021194	.0001638
%RSD	.7005892	2.526471	.5982752	.6496158	.8871446	.2708504
#1	.9658569	.0074924	.0087958	123.2151	.2402176	.0606397
#2	.9686220	.0071426	.0087010	123.6191	.2400265	.0603125
#3	.9557966	.0074261	.0087102	122.0785	.2364549	.0604629

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1318646**	**116.7820**	**1.022861**	**25.60172**	**.3246920**	**.0039180**
Stddev	.0025730	.8812	.007158	.12070	.0015382	.0003213
%RSD	1.951224	.7545896	.6998367	.4714333	.4737346	8.201122
#1	.1291500	117.0091	1.024962	25.62452	.3264546	.0035752
#2	.1321763	117.5274	1.028733	25.70938	.3236216	.0039663
#3	.1342675	115.8094	1.014887	25.47124	.3239997	.0042124

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.411438**	**.2670909**	**.4051687**	**5.771401**	**7.618010**	**.5277440**
Stddev	.196600	.0012696	.0064737	.043524	.032114	.0059714
%RSD	2.652653	.4753467	1.597782	.7541366	.4215584	1.131504
#1	7.369656	.2662595	.4093431	5.789454	7.648802	.5301939
#2	7.239087	.2685523	.4084518	5.802994	7.584719	.5321008
#3	7.625570	.2664610	.3977113	5.721755	7.620507	.5209372

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-16 Acquired: 2/2/2025 14:02:18 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6324 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0225140	F 40.31654	6.546166	.0193333	3.389586	.3570025
Stddev	.0003990	.15564	.047613	.0007236	.018211	.0018309
%RSD	1.772166	.3860428	.7273440	3.742514	.5372686	.5128426
#1	.0223225	40.47860	6.491189	.0199675	3.369333	.3582488
#2	.0222468	40.16824	6.574111	.0185452	3.394810	.3578583
#3	.0229726	40.30277	6.573197	.0194873	3.404613	.3549005

Elem	Sr4077
Units	ppm
Avg	.9335838
Stddev	.0055180
%RSD	.5910587
#1	.9354654
#2	.9379150
#3	.9273711

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3897.436	77959.44	13828.44	2485.698	3861.412
Stddev	7.159	449.34	84.40	18.013	11.905
%RSD	.1836753	.5763759	.6103019	.7246729	.3083186
#1	3890.141	77868.24	13922.54	2482.709	3849.523
#2	3904.450	77562.70	13803.34	2469.367	3873.334
#3	3897.716	78447.38	13759.45	2505.019	3861.377

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-01 Acquired: 2/2/2025 14:06:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6313 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.953971**	**2.309383**	**1.842259**	**1.071940**	**1.214998**	**52.67088**
Stddev	.014620	.024290	.003609	.005310	.003839	.28377
%RSD	.7482036	1.051806	.1958805	.4953753	.3159835	.5387572
#1	1.954821	2.281695	1.840720	1.071876	1.211982	52.51792
#2	1.938945	2.319346	1.839675	1.066663	1.213692	52.49641
#3	1.968147	2.327107	1.846382	1.077282	1.219320	52.99831

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.786145**	F **1.818478**	**1.338038**	**58.11561**	**2.978325**	**2.146446**
Stddev	.019222	.008571	.004279	.34122	.034056	.002563
%RSD	.5076881	.4713549	.3197892	.5871411	1.143453	.1194033
#1	3.769566	1.813173	1.334907	57.82140	2.965332	2.145051
#2	3.781655	1.813893	1.336294	58.03574	2.952678	2.144884
#3	3.807215	1.828366	1.342914	58.48967	3.016964	2.149404

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.500339**	**75.79142**	**4.380981**	**16.89819**	**1.408071**	**.5381419**
Stddev	.007356	.37739	.024764	.12316	.002868	.0054494
%RSD	.4902768	.4979329	.5652627	.7288362	.2036582	1.012642
#1	1.502017	75.51277	4.356749	16.89534	1.406888	.5375857
#2	1.506710	75.64060	4.379950	16.77648	1.405983	.5329919
#3	1.492289	76.22090	4.406245	17.02275	1.411341	.5438481

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.248050**	**1.353655**	**4.071146**	**12.81745**	**2.748775**	**2.773711**
Stddev	.277829	.002344	.028991	.04934	.004607	.017392
%RSD	6.540152	.1731571	.7121032	.3849334	.1676162	.6270123
#1	4.514536	1.352441	4.038294	12.77789	2.744387	2.766834
#2	3.960121	1.356357	4.082002	12.80173	2.748362	2.760809
#3	4.269493	1.352166	4.093141	12.87274	2.753574	2.793489

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-01 Acquired: 2/2/2025 14:06:14 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6313 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5864562**	**.6692642**	**9.371130**	**1.244103**	**2.726062**	**1.193268**
Stddev	.0001928	.0028087	.043556	.004997	.018205	.004084
%RSD	.0328815	.4196720	.4647932	.4016282	.6678240	.3422688
#1	.5863065	.6668430	9.321025	1.239961	2.710094	1.191467
#2	.5863882	.6686061	9.399958	1.242695	2.745887	1.190393
#3	.5866738	.6723435	9.392409	1.249653	2.722204	1.197943

Elem	Sr4077
Units	ppm
Avg	**2.508493**
Stddev	.042466
%RSD	1.692902
#1	2.489631
#2	2.478725
#3	2.557123

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3733.368**	**75102.67**	**13346.92**	**2417.756**	**3950.815**
Stddev	4.698	524.03	43.87	21.457	6.407
%RSD	.1258385	.6977450	.3286763	.8874754	.1621637
#1	3736.056	75411.65	13397.13	2437.304	3958.201
#2	3736.104	75398.74	13316.03	2421.165	3946.757
#3	3727.943	74497.63	13327.59	2394.798	3947.487

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-02 Acquired: 2/2/2025 14:10:10 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6314 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.641479**	**1.374298**	**3.006002**	**1.863683**	**1.244577**	**53.91202**
Stddev	.005715	.018371	.007591	.002383	.003321	.04465
%RSD	.3481489	1.336761	.2525159	.1278887	.2668248	.0828152
#1	1.636462	1.357096	3.011474	1.864075	1.240760	53.87387
#2	1.647700	1.372148	2.997337	1.861127	1.246174	53.90105
#3	1.640274	1.393649	3.009197	1.865846	1.246798	53.96112

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.427895**	F **1.578339**	**1.648186**	**54.90350**	**2.030945**	**2.051761**
Stddev	.006763	.004816	.002208	.06676	.003317	.001187
%RSD	.1972936	.3051296	.1339952	.1215886	.1633191	.0578643
#1	3.434018	1.577497	1.646841	54.97882	2.034426	2.050399
#2	3.420636	1.583520	1.646982	54.85164	2.030586	2.052581
#3	3.429031	1.573999	1.650735	54.88004	2.027822	2.052303

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.155799**	**80.72951**	**4.740936**	**17.67114**	**2.352567**	**1.022519**
Stddev	.003698	.05731	.009923	.06969	.001152	.000992
%RSD	.1171904	.0709918	.2092995	.3943829	.0489567	.0970441
#1	3.158038	80.73998	4.750419	17.68470	2.351238	1.023624
#2	3.157828	80.66769	4.730625	17.59567	2.353206	1.022228
#3	3.151530	80.78086	4.741764	17.73306	2.353259	1.021705

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.745542**	**2.057071**	**2.235190**	**12.82073**	**2.994876**	**2.251855**
Stddev	.094509	.004057	.010793	.04312	.007135	.002770
%RSD	1.991532	.1972172	.4828779	.3363133	.2382536	.1230302
#1	4.853639	2.052784	2.224526	12.79031	2.986637	2.252794
#2	4.704461	2.060850	2.246108	12.80180	2.998942	2.254033
#3	4.678525	2.057578	2.234937	12.87007	2.999049	2.248737

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-02 Acquired: 2/2/2025 14:10:10 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6314 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.483069**	**.6193991**	**7.562482**	**1.609954**	**3.791712**	**1.083585**
Stddev	.004149	.0065257	.016113	.002351	.007432	.000930
%RSD	.2797478	1.053545	.2130683	.1460232	.1959992	.0858624
#1	1.478303	.6150681	7.574594	1.612347	3.794071	1.084544
#2	1.485870	.6162246	7.544195	1.609866	3.797678	1.082686
#3	1.485035	.6269046	7.568658	1.607648	3.783387	1.083526

Elem	Sr4077
Units	ppm
Avg	**1.085726**
Stddev	.012440
%RSD	1.145817
#1	1.093546
#2	1.092252
#3	1.071381

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3813.936**	**74107.48**	**12313.69**	**2423.282**	**4020.935**
Stddev	7.342	97.81	40.42	13.214	3.999
%RSD	.1925108	.1319851	.3282586	.5453105	.0994513
#1	3822.156	74046.33	12313.51	2435.047	4025.452
#2	3808.029	74055.81	12273.37	2408.985	4017.849
#3	3811.624	74220.29	12354.21	2425.814	4019.502

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-03 Acquired: 2/2/2025 14:21:38 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6325 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0484263**	**-.004061**	**.9420884**	**.0259047**	**.0112207**	**85.18294**
Stddev	.0024385	.004689	.0013869	.0028696	.0017257	.46391
%RSD	5.035584	115.4760	.1472137	11.07745	15.37968	.5445990
#1	.0479069	.001277	.9404883	.0226209	.0127140	84.80280
#2	.0510827	-.007516	.9428319	.0271638	.0116166	85.69986
#3	.0462893	-.005944	.9429450	.0279296	.0093314	85.04617

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5325400**	**.0122818**	**.0044428**	**67.04002**	**.1939265**	**.0219170**
Stddev	.0037620	.0001134	.0000398	.31987	.0007236	.0001656
%RSD	.7064358	.9234285	.8967817	.4771310	.3731334	.7557254
#1	.5294697	.0123628	.0044884	66.77052	.1931567	.0220188
#2	.5367365	.0121522	.0044255	67.39350	.1940300	.0220063
#3	.5314138	.0123305	.0044145	66.95604	.1945927	.0217259

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2168380**	**56.31286**	**.6821914**	**8.391609**	**.0975876**	**.0032447**
Stddev	.0015146	.25432	.0042122	.058883	.0000593	.0001943
%RSD	.6985134	.4516138	.6174538	.7016844	.0607680	5.988295
#1	.2183430	56.04915	.6779220	8.364075	.0975296	.0034205
#2	.2168570	56.55661	.6863440	8.459214	.0976481	.0030361
#3	.2153139	56.33282	.6823083	8.351537	.0975852	.0032776

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.328255**	**.1352558**	**.3365408**	**3.881634**	F **12.78516**	**.2395399**
Stddev	.380728	.0005415	.0018625	.047323	.02292	.0009695
%RSD	28.66376	.4003487	.5534386	1.219164	.1793068	.4047261
#1	1.767481	.1352969	.3382918	3.827313	12.77090	.2387017
#2	1.092395	.1357756	.3367467	3.903656	12.77298	.2406016
#3	1.124889	.1346949	.3345839	3.913933	12.81161	.2393163

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-03 Acquired: 2/2/2025 14:21:38 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6325 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098064	F 19.78984	6.795438	.0224592	1.612978	.0665650
Stddev	.0000617	.06452	.044594	.0004033	.008045	.0001611
%RSD	.6293101	.3260258	.6562391	1.795860	.4987890	.2420429
#1	.0098757	19.75099	6.830172	.0223443	1.618399	.0663807
#2	.0097859	19.75422	6.810991	.0221258	1.616800	.0666357
#3	.0097575	19.86432	6.745149	.0229075	1.603734	.0666787

Elem	Sr4077
Units	ppm
Avg	.6220117
Stddev	.0044874
%RSD	.7214313
#1	.6178139
#2	.6267412
#3	.6214799

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3871.851	78044.70	13793.28	2516.240	4019.074
Stddev	2.855	231.15	60.21	12.854	3.767
%RSD	.0737495	.2961820	.4364933	.5108388	.0937271
#1	3870.836	78311.61	13723.91	2527.540	4015.864
#2	3875.076	77911.08	13831.95	2502.256	4023.221
#3	3869.643	77911.40	13823.98	2518.924	4018.137

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-04 Acquired: 2/2/2025 14:25:37 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6326 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097733**	**-.001854**	**.0851397**	**.0149902**	**.0014453**	**39.41588**	**.2432093**
Stddev	.0011613	.000557	.0012503	.0026048	.0011659	.13159	.0011393
%RSD	11.88256	30.04428	1.468562	17.37684	80.66675	.3338602	.4684318
#1	.0091884	-.002293	.0842382	.0176771	.0010088	39.53343	.2427699
#2	.0111108	-.001227	.0865671	.0124760	.0005607	39.27372	.2423552
#3	.0090207	-.002040	.0846138	.0148176	.0027665	39.44048	.2445028

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047696**	**.0017203**	**12.38049**	**.0968871**	**.0128698**	**.0214976**	**18.88803**
Stddev	.0000359	.0000668	.02334	.0015171	.0001872	.0014887	.09004
%RSD	.7535860	3.885745	.1884967	1.565831	1.454240	6.924996	.4767205
#1	.0047613	.0016701	12.40727	.0985492	.0130001	.0231954	18.97384
#2	.0048090	.0016947	12.36451	.0955768	.0126553	.0204153	18.79428
#3	.0047385	.0017962	12.36968	.0965354	.0129540	.0208822	18.89598

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7510869**	**4.069868**	**.0455489**	**.0020956**	**.2508933**	**.0351436**	**.0817547**
Stddev	.0015623	.022774	.0003982	.0002046	.2884223	.0012029	.0015012
%RSD	.2080119	.5595879	.8742073	9.763645	114.9582	3.422761	1.836186
#1	.7528188	4.084218	.0451667	.0023309	-.037342	.0364862	.0833445
#2	.7506583	4.081777	.0455186	.0019596	.539502	.0341640	.0803615
#3	.7497836	4.043608	.0459613	.0019963	.250519	.0347807	.0815582

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.413907**	**3.652194**	**.0740259**	**.0019964**	**4.073683**	**7.222191**	**.0045123**
Stddev	.044778	.005747	.0001308	.0003915	.010391	.052760	.0010758
%RSD	1.855009	.1573473	.1766439	19.60810	.2550845	.7305321	23.84222
#1	2.446025	3.653566	.0739255	.0022012	4.070696	7.281238	.0036030
#2	2.362757	3.645886	.0739786	.0015451	4.065113	7.179678	.0042341
#3	2.432940	3.657131	.0741738	.0022431	4.085241	7.205655	.0057000

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-04 Acquired: 2/2/2025 14:25:37 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6326 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9252465	.0367964	.0886428
Stddev	.0027548	.0013063	.0004259
%RSD	.2977407	3.550186	.4804975
#1	.9281553	.0383010	.0887786
#2	.9249073	.0361373	.0881655
#3	.9226770	.0359509	.0889843

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3830.030	74735.13	13745.54	2442.388	4373.399
Stddev	8.369	262.79	63.52	7.328	6.929
%RSD	.2185001	.3516276	.4621318	.3000493	.1584387
#1	3829.241	74439.11	13693.74	2434.150	4379.614
#2	3838.764	74940.90	13726.46	2448.182	4374.655
#3	3822.083	74825.39	13816.41	2444.832	4365.927

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-05 Acquired: 2/2/2025 14:29:39 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6331 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1655440**	**-.013341**	**.3492179**	**.0543676**	**.0202854**	**91.98951**
Stddev	.0012321	.002790	.0015228	.0025017	.0015397	.55293
%RSD	.7442545	20.91338	.4360558	4.601489	7.589953	.6010764
#1	.1648445	-.010681	.3506284	.0527029	.0217922	91.49507
#2	.1669666	-.016245	.3494218	.0572445	.0203493	92.58655
#3	.1648208	-.013097	.3476034	.0531555	.0187149	91.88690

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4585569**	**.0053699**	**.0089515**	**126.6596**	**.2092574**	**.0764592**
Stddev	.0015732	.0000415	.0000674	.7204	.0020216	.0006359
%RSD	.3430804	.7731068	.7524775	.5687481	.9660719	.8316626
#1	.4576751	.0053850	.0090279	126.0279	.2080789	.0771721
#2	.4603733	.0054018	.0089006	127.4441	.2115917	.0759504
#3	.4576224	.0053230	.0089262	126.5068	.2081017	.0762552

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1036411**	**149.5554**	**2.228977**	**30.11662**	**.2425099**	**.0082047**
Stddev	.0017963	.8962	.012603	.20291	.0002189	.0004480
%RSD	1.733210	.5992534	.5654034	.6737425	.0902469	5.459785
#1	.1018496	148.6462	2.219112	29.88924	.2423745	.0077405
#2	.1036316	150.4380	2.243175	30.27925	.2423927	.0082392
#3	.1054422	149.5820	2.224646	30.18137	.2427624	.0086345

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7738864**	**.1960798**	**.6959233**	**6.466659**	**7.643282**	**.6295476**
Stddev	.2984106	.0013640	.0031824	.072734	.021893	.0042204
%RSD	38.55999	.6956482	.4572855	1.124747	.2864324	.6703909
#1	1.109245	.1950051	.6983239	6.474397	7.631936	.6256854
#2	.674760	.1976143	.6971323	6.535214	7.629391	.6340525
#3	.537654	.1956200	.6923136	6.390366	7.668519	.6289050

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-05 Acquired: 2/2/2025 14:29:39 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6331 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030616	F 28.98404	5.732268	.0168753	3.458683	.1971014
Stddev	.0002336	.04051	.030606	.0008905	.016763	.0018345
%RSD	7.628999	.1397577	.5339272	5.276693	.4846705	.9307583
#1	.0028184	29.02948	5.697135	.0178889	3.449068	.1982633
#2	.0032842	28.95172	5.746516	.0165178	3.448941	.1980544
#3	.0030822	28.97093	5.753153	.0162191	3.478039	.1949865

Elem	Sr4077
Units	ppm
Avg	.5531174
Stddev	.0036345
%RSD	.6570992
#1	.5497790
#2	.5569891
#3	.5525839

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.179	75478.78	14591.66	2428.840	3887.148
Stddev	13.366	632.44	65.50	9.837	9.888
%RSD	.3556637	.8379093	.4489033	.4049959	.2543675
#1	3742.776	75870.34	14666.98	2430.237	3876.228
#2	3765.026	74749.15	14559.89	2418.380	3889.723
#3	3766.735	75816.85	14548.09	2437.904	3895.494

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-06 Acquired: 2/2/2025 14:33:36 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6332 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3564367	-.011921	.1589450	.0379693	.0184192	83.15598	.2303750
Stddev	.0016466	.000964	.0005947	.0032748	.0013962	.56969	.0024051
%RSD	.4619512	8.088134	.3741391	8.624775	7.579947	.6850819	1.044000
#1	.3561971	-.011424	.1583385	.0341958	.0191241	83.65807	.2326810
#2	.3581899	-.013032	.1595271	.0400674	.0193224	83.27300	.2305623
#3	.3549231	-.011306	.1589692	.0396446	.0168111	82.53687	.2278817

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037040	.0049857	21.75375	.2664511	.0721505	.0424447	153.3860
Stddev	.0000279	.0000304	.10461	.0021130	.0004054	.0016697	.8205
%RSD	.7526498	.6094372	.4808596	.7930299	.5619211	3.933724	.5349032
#1	.0036813	.0050190	21.84903	.2666850	.0716824	.0421412	154.0169
#2	.0037351	.0049594	21.77042	.2684374	.0723846	.0442453	153.6828
#3	.0036956	.0049788	21.64182	.2642308	.0723846	.0409477	152.4585

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.635389	27.20670	.2264751	.0051257	.5140625	.1957368	.2873567
Stddev	.011470	.17401	.0010536	.0004746	.0917845	.0017236	.0049144
%RSD	.7013353	.6395869	.4652042	9.259915	17.85473	.8805838	1.710196
#1	1.646288	27.28510	.2256743	.0055497	.4411559	.1972174	.2930134
#2	1.636454	27.32771	.2276686	.0046130	.4838985	.1938447	.2849186
#3	1.623424	27.00728	.2260823	.0052144	.6171331	.1961484	.2841380

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.027816	3.791898	.5937383	.0082480	4.777873	6.482182	.0160070
Stddev	.029560	.014375	.0043288	.0002210	.011948	.037585	.0005428
%RSD	1.457718	.3790933	.7290763	2.679378	.2500756	.5798224	3.391127
#1	2.060173	3.776116	.5976577	.0079962	4.766906	6.524824	.0153812
#2	2.021045	3.804243	.5944652	.0084098	4.790606	6.453867	.0162893
#3	2.002229	3.795335	.5890921	.0083381	4.776107	6.467855	.0163505

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-06 Acquired: 2/2/2025 14:33:36 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6332 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.368893	.2478966	.1326563
Stddev	.037940	.0034991	.0009736
%RSD	.8684080	1.411529	.7339242
#1	4.412238	.2511141	.1335058
#2	4.352727	.2484043	.1328693
#3	4.341714	.2441713	.1315939

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3739.184	75612.47	13387.51	2476.787	4026.718
Stddev	15.823	467.89	57.01	6.029	15.503
%RSD	.4231684	.6188044	.4258250	.2434240	.3850149
#1	3757.374	75553.62	13341.72	2472.925	4043.457
#2	3731.568	75176.79	13369.46	2473.701	4012.852
#3	3728.609	76107.01	13451.36	2483.734	4023.845

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-07 Acquired: 2/2/2025 14:37:33 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6333 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5307844**	**-.035676**	**.7099690**	**.0920573**	**.0411305**	**193.4167**
Stddev	.0059140	.002739	.0060833	.0035079	.0006298	1.9164
%RSD	1.114206	7.677505	.8568448	3.810566	1.531244	.9908319
#1	.5339413	-.036913	.7042019	.0920154	.0405889	191.5519
#2	.5239618	-.037578	.7093795	.0885705	.0418216	193.3171
#3	.5344501	-.032537	.7163257	.0955859	.0409811	195.3809

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7115788**	**.0085568**	**.0182931**	**85.17562**	**.5184943**	**.1957280**
Stddev	.0037616	.0000961	.0000556	.38231	.0007422	.0005168
%RSD	.5286336	1.122725	.3041218	.4488512	.1431468	.2640249
#1	.7102270	.0084504	.0182664	84.92352	.5177282	.1953545
#2	.7158295	.0085827	.0182559	85.61551	.5185448	.1955117
#3	.7086799	.0086372	.0183571	84.98783	.5192100	.1963178

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1187332**	**314.7641**	**5.951382**	**52.68401**	**.5708308**	**.0112307**
Stddev	.0005347	1.3519	.026755	.17512	.0026668	.0003592
%RSD	.4503262	.4295093	.4495585	.3324002	.4671790	3.198113
#1	.1192478	313.7170	5.936270	52.53920	.5692003	.0108369
#2	.1181805	316.2904	5.982273	52.87864	.5693838	.0113150
#3	.1187713	314.2850	5.935601	52.63419	.5739083	.0115403

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.931573**	**.3680524**	**.8501469**	**4.835672**	F **17.95319**	**1.254689**
Stddev	.178631	.0014848	.0082878	.002335	.09871	.007526
%RSD	9.247957	.4034097	.9748719	.0482872	.5498322	.5998240
#1	1.959723	.3663735	.8433158	4.833313	17.87750	1.250732
#2	1.740538	.3685911	.8593668	4.837982	17.91724	1.263368
#3	2.094457	.3691926	.8477581	4.835720	18.06484	1.249967

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-07 Acquired: 2/2/2025 14:37:33 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6333 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142294	F 34.80835	6.478447	.0320825	6.086199	.5163831
Stddev	.0004750	.20392	.014048	.0007881	.014488	.0013009
%RSD	3.337945	.5858361	.2168381	2.456597	.2380477	.2519290
#1	.0138438	34.68088	6.481296	.0313667	6.069553	.5165453
#2	.0140844	34.70063	6.490852	.0319537	6.093077	.5175953
#3	.0147599	35.04354	6.463193	.0329271	6.095966	.5150087

Elem	Sr4077
Units	ppm
Avg	.4938513
Stddev	.0021480
%RSD	.4349515
#1	.4917421
#2	.4960361
#3	.4937757

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4302.029	85680.61	15913.93	2809.445	3783.081
Stddev	13.050	196.88	46.90	15.410	14.256
%RSD	.3033414	.2297816	.2946973	.5485022	.3768313
#1	4314.575	85771.56	15919.08	2819.561	3795.387
#2	4302.985	85454.70	15958.04	2791.710	3786.396
#3	4288.528	85815.58	15864.67	2817.064	3767.460

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-08 Acquired: 2/2/2025 14:41:36 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6334 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4992884**	**-.039598**	**.6895051**	**.0749685**	**.0339740**	**170.0618**
Stddev	.0020557	.003589	.0031549	.0036487	.0009174	1.5794
%RSD	.4117296	9.063879	.4575650	4.866923	2.700448	.9287396
#1	.4971957	-.035455	.6919331	.0775003	.0349702	168.2508
#2	.5013050	-.041741	.6859390	.0707862	.0331638	171.1540
#3	.4993646	-.041599	.6906432	.0766189	.0337879	170.7806

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5966787**	**.0104741**	**.0184971**	**73.55236**	**.5122776**	**.1863816**
Stddev	.0068615	.0000365	.0001796	.80747	.0056612	.0010050
%RSD	1.149954	.3487348	.9708948	1.097811	1.105097	.5392074
#1	.5891052	.0105090	.0186334	72.68948	.5057947	.1860985
#2	.6024809	.0104771	.0182936	74.28971	.5162457	.1855485
#3	.5984501	.0104361	.0185643	73.67789	.5147923	.1874977

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1111277**	**278.8659**	**5.129146**	**46.19625**	**.5484198**	**.0023201**
Stddev	.0009078	2.7067	.062465	.45556	.0021430	.0008268
%RSD	.8168546	.9706242	1.217852	.9861433	.3907530	35.63775
#1	.1117735	275.7960	5.062815	45.71795	.5483893	.0024602
#2	.1100898	280.9090	5.186849	46.62503	.5462922	.0030680
#3	.1115197	279.8927	5.137773	46.24575	.5505778	.0014322

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.619343**	**.3637259**	**.7535749**	**3.930409**	F **17.09198**	**1.056944**
Stddev	.093919	.0009082	.0120176	.051590	.07635	.013091
%RSD	5.799813	.2496974	1.594741	1.312582	.4467142	1.238570
#1	1.520402	.3626810	.7401108	3.873520	17.09064	1.041853
#2	1.707268	.3641704	.7632155	3.943549	17.01631	1.065249
#3	1.630360	.3643262	.7573984	3.974159	17.16900	1.063730

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-08 Acquired: 2/2/2025 14:41:36 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6334 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136659	F 32.00438	8.624445	.0329467	6.194050	.4466189
Stddev	.0001551	.13857	.031674	.0006363	.020450	.0074209
%RSD	1.134850	.4329699	.3672582	1.931413	.3301573	1.661580
#1	.0137719	31.94826	8.630694	.0331106	6.191993	.4380500
#2	.0137378	31.90266	8.652529	.0334850	6.215451	.4508742
#3	.0134879	32.16220	8.590112	.0322444	6.174706	.4509324

Elem	Sr4077
Units	ppm
Avg	.4357722
Stddev	.0035300
%RSD	.8100593
#1	.4317108
#2	.4375033
#3	.4381026

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4313.039	84063.47	14120.24	2737.980	3819.218
Stddev	2.607	885.81	54.59	26.779	10.984
%RSD	.0604331	1.053742	.3865822	.9780678	.2875893
#1	4313.558	85029.82	14111.42	2768.548	3826.261
#2	4315.347	83289.97	14070.60	2718.655	3824.831
#3	4310.212	83870.63	14178.70	2726.737	3806.562

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-12 Acquired: 2/2/2025 14:45:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6343 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493225	-.004455	.2480667	.0160267	.0058716	76.60877	.1896869
Stddev	.0006198	.001402	.0022764	.0006318	.0007749	.03871	.0003854
%RSD	1.256590	31.47160	.9176641	3.942428	13.19678	.0505352	.2031987
#1	.0489609	-.006043	.2473604	.0166376	.0050765	76.61624	.1895555
#2	.0489685	-.003386	.2506126	.0160666	.0059139	76.64321	.1901209
#3	.0500382	-.003937	.2462272	.0153758	.0066245	76.56687	.1893844

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024991	.0014906	5.913974	.1510268	.0182656	.0210179	59.73938
Stddev	.0001195	.0000915	.018419	.0001309	.0001587	.0020028	.08381
%RSD	4.780685	6.137756	.3114561	.0866648	.8688502	9.528889	.1402974
#1	.0024062	.0014752	5.910662	.1508764	.0180982	.0228542	59.74141
#2	.0024572	.0014079	5.933825	.1510885	.0182847	.0213172	59.82215
#3	.0026338	.0015889	5.897435	.1511154	.0184138	.0188823	59.65456

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5069910	13.41642	.0658413	.0024486	1.557407	.1203590	.1698244
Stddev	.0002719	.02260	.0005593	.0000861	.740216	.0028791	.0040985
%RSD	.0536265	.1684455	.8494761	3.516071	47.52874	2.392107	2.413388
#1	.5069587	13.43378	.0652141	.0023750	2.410708	.1176547	.1651731
#2	.5072776	13.42462	.0662883	.0024276	1.087998	.1233858	.1729063
#3	.5067367	13.39087	.0660216	.0025433	1.173516	.1200365	.1713938

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.375003	2.723703	.2327184	.0032993	5.183710	7.367658	.0153422
Stddev	.051286	.002356	.0004176	.0004014	.000623	.058957	.0010012
%RSD	2.159417	.0865115	.1794321	12.16448	.0120245	.8002134	6.525582
#1	2.422245	2.726367	.2328723	.0033821	5.183120	7.301179	.0161743
#2	2.382308	2.721890	.2330372	.0028630	5.184362	7.413599	.0156212
#3	2.320456	2.722854	.2322457	.0036528	5.183649	7.388195	.0142311

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-12 Acquired: 2/2/2025 14:45:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6343 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.601469	.1126290	.0515786
Stddev	.022987	.0003748	.0001211
%RSD	.8836010	.3327708	.2347715
#1	2.575576	.1130401	.0516266
#2	2.619469	.1123065	.0514409
#3	2.609362	.1125403	.0516684

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3660.666	72561.64	13353.06	2355.248	4168.236
Stddev	3.440	98.52	101.85	4.416	1.310
%RSD	.0939594	.1357703	.7627515	.1874771	.0314344
#1	3657.085	72574.25	13470.26	2353.502	4166.754
#2	3660.971	72457.43	13286.00	2360.269	4169.241
#3	3663.943	72653.25	13302.92	2351.972	4168.712

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-13 Acquired: 2/2/2025 14:49:32 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6344 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401321	.0000767	.0832484	.0089312	.0037365	35.63492	.1891154
Stddev	.0026977	.0021261	.0008188	.0037004	.0005568	.26652	.0005669
%RSD	6.721964	2770.691	.9835314	41.43262	14.90215	.7479134	.2997368
#1	.0428029	.0001749	.0841389	.0078801	.0043711	35.47100	.1888848
#2	.0401851	-.002097	.0825281	.0058700	.0033300	35.49132	.1887003
#3	.0374083	.002152	.0830782	.0130435	.0035082	35.94245	.1897612

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022582	.0019169	10.82413	.0921833	.0327807	.0222315	40.44665
Stddev	.0000766	.0000568	.08253	.0003383	.0002661	.0021962	.26857
%RSD	3.390072	2.963832	.7624296	.3669534	.8117555	9.878889	.6640171
#1	.0021785	.0019522	10.75590	.0918233	.0330880	.0196955	40.30231
#2	.0022651	.0019472	10.80064	.0924946	.0326306	.0234960	40.28111
#3	.0023311	.0018514	10.91586	.0922320	.0326236	.0235030	40.75653

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5966717	9.667952	.0707663	.0013758	.5071096	.0653346	.1962088
Stddev	.0037575	.058930	.0005445	.0003476	.0814048	.0007443	.0034284
%RSD	.6297360	.6095371	.7694219	25.26189	16.05271	1.139225	1.747332
#1	.5936222	9.616097	.0713811	.0013736	.4136990	.0651618	.1931124
#2	.5955235	9.655722	.0703450	.0017245	.5447270	.0661501	.1956208
#3	.6008692	9.732037	.0705728	.0010294	.5629028	.0646919	.1998932

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.597591	1.911323	.1523450	.0014124	6.021964	5.119851	.0061618
Stddev	.078770	.002996	.0010140	.0002810	.015151	.040629	.0003428
%RSD	3.032437	.1567607	.6656126	19.89709	.2515933	.7935644	5.562921
#1	2.521158	1.912086	.1513227	.0011814	6.039389	5.119314	.0061521
#2	2.593108	1.913863	.1523619	.0017253	6.014600	5.160746	.0058240
#3	2.678507	1.908018	.1533505	.0013305	6.011902	5.079493	.0065093

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-13 Acquired: 2/2/2025 14:49:32 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6344 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.678000	.0938001	.0518285
Stddev	.016087	.0008642	.0004768
%RSD	.9587002	.9213191	.9200149
#1	1.665560	.0936454	.0515228
#2	1.672272	.0930237	.0515847
#3	1.696167	.0947312	.0523779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3702.470	71462.13	12543.38	2342.807	4247.817
Stddev	7.733	310.62	93.22	9.130	8.649
%RSD	.2088487	.4346574	.7431778	.3897236	.2035993
#1	3695.170	71814.45	12642.83	2346.692	4237.873
#2	3710.572	71344.14	12529.34	2332.376	4253.584
#3	3701.668	71227.80	12457.99	2349.352	4251.994

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-14 Acquired: 2/2/2025 14:53:33 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6345 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0443276**	**-.004036**	**.1125988**	**.0129867**	**.0044686**	**62.56114**	**.3454298**
Stddev	.0018570	.002418	.0015037	.0013257	.0007596	.23408	.0028716
%RSD	4.189326	59.90146	1.335478	10.20809	16.99930	.3741689	.8313150
#1	.0464597	-.003311	.1128479	.0120618	.0039244	62.60871	.3452447
#2	.0434593	-.002064	.1139624	.0123929	.0041449	62.76778	.3483894
#3	.0430638	-.006734	.1109860	.0145055	.0053365	62.30692	.3426552

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027956**	**.0019407**	**12.46640**	**.1515360**	**.0352483**	**.0253952**	**64.64858**
Stddev	.0000947	.0000093	.02786	.0006538	.0002662	.0017829	.18111
%RSD	3.389051	.4776094	.2234651	.4314849	.7551511	7.020595	.2801392
#1	.0027077	.0019322	12.47631	.1507811	.0354295	.0274533	64.66192
#2	.0028960	.0019506	12.48795	.1519045	.0349427	.0244106	64.82265
#3	.0027832	.0019393	12.43494	.1519224	.0353726	.0243217	64.46117

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.032502**	**16.30656**	**.0887834**	**.0025137**	**.6192152**	**.1014960**	**.2434255**
Stddev	.005640	.03598	.0002082	.0002378	.0177347	.0016611	.0017078
%RSD	.5462148	.2206470	.2345145	9.460070	2.864064	1.636586	.7015808
#1	1.032661	16.33731	.0888594	.0026227	.6149495	.1000761	.2453095
#2	1.038060	16.31537	.0885478	.0022409	.6040024	.1010891	.2429882
#3	1.026784	16.26699	.0889429	.0026774	.6386938	.1033227	.2419789

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.949874**	**1.782587**	**.2530048**	**.0022618**	**5.974877**	**6.407141**	**.0112812**
Stddev	.059597	.001774	.0012277	.0004239	.019267	.029440	.0005660
%RSD	1.508838	.0995095	.4852539	18.74210	.3224615	.4594900	5.017309
#1	3.992505	1.784615	.2521490	.0025143	5.995758	6.417378	.0109251
#2	3.975342	1.781324	.2544114	.0017724	5.971083	6.430096	.0119338
#3	3.881774	1.781822	.2524538	.0024987	5.957790	6.373949	.0109846

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-14 Acquired: 2/2/2025 14:53:33 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6345 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**2.705532**	**.1468543**	**.0892822**
Stddev	.011031	.0009960	.0004765
%RSD	.4077368	.6782247	.5336817
#1	2.701692	.1461950	.0894321
#2	2.717970	.1480000	.0896657
#3	2.696934	.1463678	.0887488

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3712.885**	**71213.40**	**13409.37**	**2324.049**	**4202.146**
Stddev	2.487	99.03	28.77	11.573	9.134
%RSD	.0669841	.1390594	.2145664	.4979692	.2173537
#1	3710.056	71325.76	13439.10	2333.793	4192.300
#2	3713.872	71175.66	13407.34	2327.096	4203.796
#3	3714.727	71138.80	13381.66	2311.257	4210.342

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-15 Acquired: 2/2/2025 14:57:32 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6346 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0400427**	**-.003097**	**.0865456**	**.0129439**	**.0071303**	**46.60846**	**.2591700**
Stddev	.0019941	.000895	.0012002	.0020770	.0016052	.13219	.0023439
%RSD	4.979872	28.91333	1.386745	16.04590	22.51198	.2836078	.9043734
#1	.0378226	-.002080	.0854942	.0142020	.0053355	46.62380	.2609333
#2	.0416817	-.003444	.0878532	.0140831	.0076270	46.73230	.2600665
#3	.0406237	-.003767	.0862894	.0105466	.0084285	46.46927	.2565102

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024832**	**.0018503**	**9.887678**	**.1266958**	**.0368280**	**.0415652**	**60.85368**
Stddev	.0000830	.0000586	.023568	.0003318	.0002264	.0006019	.23166
%RSD	3.344367	3.166648	.2383552	.2618582	.6147207	1.448007	.3806766
#1	.0025335	.0019160	9.906229	.1264729	.0365981	.0422383	60.93153
#2	.0023873	.0018034	9.895646	.1265375	.0368353	.0410787	61.03638
#3	.0025287	.0018315	9.861159	.1270771	.0370507	.0413787	60.59313

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.111948**	**15.22620**	**.0892267**	**.0026439**	**.6063665**	**.0949022**	**.2174726**
Stddev	.003309	.06671	.0006231	.0004682	.2306995	.0010536	.0027263
%RSD	.2976139	.4381058	.6982987	17.71010	38.04622	1.110222	1.253615
#1	1.112980	15.28912	.0887538	.0026028	.6699521	.0954256	.2205397
#2	1.114619	15.23321	.0889936	.0021975	.3505427	.0936894	.2165531
#3	1.108246	15.15626	.0899327	.0031312	.7986049	.0955918	.2153250

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.196920**	**2.230108**	**.2377326**	**.0019694**	**4.357267**	**6.272406**	**.0094117**
Stddev	.024450	.003969	.0015303	.0003181	.013690	.077010	.0010234
%RSD	.3945511	.1779574	.6437190	16.15052	.3141790	1.227766	10.87351
#1	6.204818	2.232655	.2375687	.0019866	4.354713	6.284463	.0085079
#2	6.216445	2.225536	.2393383	.0022785	4.345034	6.190078	.0092042
#3	6.169498	2.232134	.2362908	.0016431	4.372054	6.342677	.0105229

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-15 Acquired: 2/2/2025 14:57:32 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6346 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.658821	.1138158	.0580551
Stddev	.046576	.0003282	.0003229
%RSD	1.751760	.2884078	.5561130
#1	2.692059	.1141919	.0579513
#2	2.605586	.1136685	.0584171
#3	2.678819	.1135871	.0577969

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3740.091	71716.25	13469.35	2351.402	4219.278
Stddev	10.837	134.63	237.05	6.508	7.818
%RSD	.2897487	.1877195	1.759932	.2767645	.1852988
#1	3731.718	71763.49	13343.14	2350.129	4212.103
#2	3752.331	71564.37	13742.81	2345.625	4227.611
#3	3736.224	71820.88	13322.11	2358.453	4218.121

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-16 Acquired: 2/2/2025 15:01:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6347 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0248948**	**-.003299**	**.1425832**	**.0232647**	**.0093372**	**84.82717**	**.2780592**
Stddev	.0001928	.002324	.0014087	.0011939	.0001634	.53988	.0014106
%RSD	.7743427	70.43107	.9879993	5.131674	1.749732	.6364480	.5073173
#1	.0251102	-.000954	.1436185	.0245850	.0093498	84.21329	.2764440
#2	.0247386	-.003344	.1431522	.0222612	.0094938	85.04013	.2786846
#3	.0248357	-.005600	.1409790	.0229478	.0091678	85.22810	.2790492

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027652**	**.0017762**	**6.494403**	**.2224777**	**.0306580**	**.0057647**	**87.82675**
Stddev	.0000249	.0000871	.038557	.0007368	.0002276	.0023035	.43986
%RSD	.9018645	4.905782	.5936991	.3311928	.7422599	39.95900	.5008293
#1	.0027465	.0017900	6.451879	.2218730	.0306270	.0074279	87.32009
#2	.0027935	.0018556	6.504243	.2222618	.0308995	.0031355	88.04919
#3	.0027555	.0016830	6.527087	.2232984	.0304475	.0067307	88.11097

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7955366**	**21.32441**	**.0923077**	**.0032530**	**.8056535**	**.1422705**	**.1904328**
Stddev	.0048509	.05670	.0002277	.0000600	.3722206	.0003730	.0031918
%RSD	.6097685	.2658947	.2467174	1.843050	46.20108	.2621692	1.676073
#1	.7899856	21.26941	.0924366	.0033220	.4893928	.1419152	.1868794
#2	.7989609	21.38267	.0920447	.0032139	1.215841	.1426590	.1930567
#3	.7976633	21.32115	.0924417	.0032231	.711727	.1422374	.1913621

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.655215**	**1.235084**	**.3404708**	**.0013830**	**2.873801**	**8.515312**	**.0197334**
Stddev	.030800	.000794	.0019116	.0004458	.014232	.037617	.0005462
%RSD	1.159974	.0642618	.5614634	32.23517	.4952220	.4417626	2.767921
#1	2.620124	1.235091	.3384036	.0013860	2.864597	8.552921	.0197992
#2	2.677769	1.235875	.3408341	.0009357	2.866614	8.515330	.0202438
#3	2.667753	1.234287	.3421747	.0018273	2.890194	8.477686	.0191573

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1246-16 Acquired: 2/2/2025 15:01:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6347 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.150330**	**.1910444**	**.0462610**
Stddev	.005553	.0023214	.0002089
%RSD	.1337918	1.215094	.4515267
#1	4.145572	.1883850	.0460255
#2	4.156431	.1920829	.0463336
#3	4.148988	.1926651	.0464239

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3637.613**	**71544.05**	**13244.17**	**2368.500**	**4091.693**
Stddev	10.410	212.49	16.83	7.631	4.758
%RSD	.2861793	.2970012	.1270668	.3221682	.1162755
#1	3628.800	71741.40	13227.42	2376.206	4087.971
#2	3649.098	71571.64	13244.02	2368.348	4097.053
#3	3634.940	71319.12	13261.08	2360.947	4090.055

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV035 Acquired: 2/2/2025 15:05:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.858309**	**4.926736**	**24.19654**	**4.929083**	**4.979525**	**419.1833**
Stddev	.006500	.001097	.03965	.011275	.002043	2.0083
%RSD	.1337933	.0222712	.1638488	.2287370	.0410182	.4791047
#1	4.856369	4.926386	24.17487	4.924364	4.979092	419.7497
#2	4.865559	4.925856	24.24230	4.941950	4.981749	420.8476
#3	4.853000	4.927965	24.17246	4.920934	4.977734	416.9526

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.42029**	**.4909201**	**2.446965**	**415.9388**	**15.48257**	**2.460236**
Stddev	.07654	.0052064	.004481	6.0123	.12122	.002771
%RSD	.7345030	1.060545	.1831409	1.445482	.7829684	.1126309
#1	10.47819	.4955199	2.444732	422.5265	15.61434	2.460142
#2	10.33351	.4919726	2.452124	410.7478	15.45758	2.463052
#3	10.44916	.4852678	2.444039	414.5421	15.37578	2.457513

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.58645**	**422.6421**	**15.43850**	**411.8284**	**2.455840**	**1.294216**
Stddev	.21708	5.3394	.19456	4.4924	.003124	.011255
%RSD	1.392718	1.263337	1.260205	1.090846	.1272050	.8696681
#1	15.82663	428.8075	15.66249	417.0156	2.456859	1.307203
#2	15.52847	419.5326	15.31163	409.2060	2.458328	1.288161
#3	15.40426	419.5864	15.34137	409.2634	2.452334	1.287285

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**400.5358**	**2.489249**	**15.67239**	**160.9420**	**4.879522**	F **5.948043**
Stddev	5.7387	.026409	.20507	2.1832	.021001	.053549
%RSD	1.432758	1.060919	1.308507	1.356537	.4303817	.9002860
#1	407.1519	2.519212	15.90258	163.4616	4.856406	6.004833
#2	397.5489	2.479177	15.50917	159.6105	4.897425	5.940830
#3	396.9066	2.469359	15.60542	159.7538	4.884736	5.898465

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV035 Acquired: 2/2/2025 15:05:31 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV035 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.910705**	**4.943792**	**4.925027**	**4.906450**	**5.058021**	**5.312647**
Stddev	.009269	.016916	.067738	.005956	.065809	.075560
%RSD	.1887465	.3421749	1.375387	.1213872	1.301090	1.422266
#1	4.903390	4.940491	5.003238	4.905791	5.130073	5.399345
#2	4.921129	4.928770	4.886830	4.912708	5.042905	5.260819
#3	4.907596	4.962116	4.885015	4.900851	5.001085	5.277778

Elem	Sr4077
Units	ppm
Avg	**5.338930**
Stddev	.048843
%RSD	.9148379
#1	5.394050
#2	5.301029
#3	5.321710

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2888.360**	**58997.44**	**11680.20**	**1906.505**	**3199.293**
Stddev	6.444	551.78	118.68	18.319	7.591
%RSD	.2230934	.9352533	1.016076	.9608829	.2372581
#1	2883.244	58364.87	11562.90	1885.377	3192.714
#2	2886.240	59247.73	11677.49	1916.171	3197.566
#3	2895.597	59379.71	11800.21	1917.967	3207.598

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB035 Acquired: 2/2/2025 15:09:50 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012184	-.000840	.0004070	.0013629	.0003225	-.000219	.0045344
Stddev	.0023090	.001534	.0003683	.0013113	.0015908	.008042	.0003303
%RSD	189.5215	182.5864	90.49874	96.22027	493.2838	3667.832	7.283376
#1	.0032376	-.000068	-.000002	.0028553	.0013150	-.009506	.0048117
#2	-.001299	-.002607	.000712	.0008382	.0011648	.004364	.0046226
#3	.001717	.000154	.000511	.0003951	-.001512	.004484	.0041690

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000287	.0001514	.0114202	.0004022	.0004392	.0012856	.0134411
Stddev	.0000528	.0001436	.0065978	.0000857	.0000811	.0027755	.0025635
%RSD	183.6924	94.84441	57.77301	21.31698	18.46901	215.8973	19.07197
#1	-.000014	.0000004	.0139384	.0003060	.0005250	-.000194	.0147269
#2	.000013	.0002864	.0039342	.0004303	.0003638	.004487	.0151073
#3	.000088	.0001675	.0163881	.0004705	.0004288	-.000436	.0104892

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004633	-.001434	-.000116	.0004585	-.235137	-.001343	.0017655
Stddev	.0005488	.011533	.000351	.0004938	.217999	.003201	.0015398
%RSD	118.4602	804.3539	302.1562	107.6982	92.71134	238.4327	87.21951
#1	.0000278	.002362	.000071	.0004346	-.483700	-.004222	.0029489
#2	.0002823	-.014386	-.000521	.0009638	-.076420	.002105	.0000246
#3	.0010796	.007723	.000101	-.000023	-.145291	-.001910	.0023229

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3151463	-.001392	-.001401	.0004694	.0020335	.0012346	-.000583
Stddev	.0508679	.000293	.000719	.0002432	.0034347	.0008303	.000273
%RSD	16.14105	21.02243	51.35454	51.80324	168.9091	67.25126	46.83886
#1	.2602113	-.001443	-.001433	.0006826	.0026391	.0013567	-.000268
#2	.3606180	-.001077	-.002104	.0002046	-.001664	.0003500	-.000740
#3	.3246095	-.001656	-.000666	.0005211	.005125	.0019970	-.000742

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB035 Acquired: 2/2/2025 15:09:50 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB035 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0008087	-.004729	.0001380
Stddev	.0006274	.000941	.0000377
%RSD	77.57485	19.90677	27.28081
#1	.0007315	-.004666	.0000967
#2	.0002235	-.003821	.0001470
#3	.0014711	-.005700	.0001704

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3599.771	70112.14	12302.02	2345.145	4330.161
Stddev	34.327	159.17	96.61	7.310	41.094
%RSD	.9535867	.2270223	.7853280	.3117095	.9490250
#1	3594.727	69991.57	12225.98	2337.555	4325.966
#2	3568.244	70292.56	12269.35	2352.139	4291.325
#3	3636.340	70052.28	12410.73	2345.742	4373.192

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-14DLX2 Acquired: 2/2/2025 15:13:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6322 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8910155**	**-.038717**	**.6642477**	**.1039634**	**.0671388**	**62.32640**
Stddev	.0056398	.004140	.0029897	.0021635	.0005594	.19135
%RSD	.6329681	10.69352	.4500867	2.081016	.8332105	.3070151
#1	.8897371	-.033960	.6669408	.1022065	.0677838	62.24453
#2	.8861246	-.040686	.6610307	.1063800	.0667855	62.18961
#3	.8971849	-.041506	.6647717	.1033039	.0668472	62.54507

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7566679**	**.0066647**	**.0208711**	**38.79941**	**8.827265**	**.1069225**
Stddev	.0034205	.0003411	.0002414	.12121	.037162	.0006680
%RSD	.4520469	5.117267	1.156779	.3124037	.4209907	.6247210
#1	.7578857	.0070560	.0211065	38.72584	8.784358	.1069113
#2	.7528051	.0064300	.0206241	38.73307	8.848197	.1062602
#3	.7593128	.0065083	.0208827	38.93931	8.849240	.1075960

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.215803**	**470.2194**	**5.173516**	**15.60706**	**.3950714**	**.0185359**
Stddev	.028042	5.4755	.021597	.07549	.0012148	.0013235
%RSD	.6651607	1.164457	.4174495	.4837069	.3074984	7.140461
#1	4.242798	464.6246	5.165973	15.54118	.3955051	.0171205
#2	4.217790	475.5673	5.156702	15.59058	.3936992	.0197429
#3	4.186820	470.4662	5.197872	15.68944	.3960098	.0187442

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.999466**	**.2010599**	**1.205680**	**6.790007**	**9.661701**	**1.834909**
Stddev	.195516	.0005055	.009210	.050806	.029431	.024680
%RSD	3.910736	.2514374	.7639239	.7482473	.3046142	1.345048
#1	4.811727	.2013294	1.199640	6.792738	9.687855	1.808673
#2	4.984746	.2013736	1.201120	6.737891	9.629831	1.857665
#3	5.201927	.2004767	1.216281	6.839393	9.667416	1.838389

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: Q1223-14DLX2 Acquired: 2/2/2025 15:13:59 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: A6322 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156483	F 22.02325	F 10.92028	1.512402	2.490599	.1366012
Stddev	.0004309	.06486	.08693	.006574	.012403	.0007898
%RSD	2.753827	.2945158	.7960321	.4346428	.4980045	.5782030
#1	.0151792	22.01797	10.97102	1.509846	2.504687	.1366986
#2	.0157393	21.96120	10.96991	1.507491	2.485789	.1373377
#3	.0160265	22.09060	10.81990	1.519870	2.481321	.1357671

Elem	Sr4077
Units	ppm
Avg	.2697477
Stddev	.0008282
%RSD	.3070431
#1	.2696365
#2	.2689807
#3	.2706260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3565.653	73418.66	12923.67	2383.376	3972.607
Stddev	7.540	346.41	100.01	16.094	4.860
%RSD	.2114658	.4718302	.7738822	.6752461	.1223344
#1	3558.990	73804.68	12907.48	2401.931	3968.713
#2	3573.838	73134.86	12832.74	2374.982	3978.053
#3	3564.130	73316.45	13030.80	2373.214	3971.053

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV036 Acquired: 2/2/2025 15:18:00 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.852887**	**4.924063**	**24.20031**	**4.924598**	**4.959182**	**417.7797**
Stddev	.018284	.037896	.08634	.011953	.010423	1.6374
%RSD	.3767592	.7696055	.3567827	.2427135	.2101782	.3919383
#1	4.842297	4.886273	24.15778	4.921399	4.967350	416.1622
#2	4.873999	4.923853	24.29966	4.937824	4.962753	417.7406
#3	4.842364	4.962064	24.14348	4.914570	4.947443	419.4364

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.25387**	**.4914336**	**2.446931**	**412.7570**	**15.66435**	**2.457907**
Stddev	.03862	.0036923	.010177	1.9052	.07262	.007841
%RSD	.3766345	.7513341	.4159002	.4615865	.4635880	.3190007
#1	10.23377	.4921011	2.440110	413.1968	15.69536	2.454695
#2	10.22945	.4874531	2.458628	410.6704	15.58137	2.466844
#3	10.29840	.4947466	2.442054	414.4039	15.71631	2.452182

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.40821**	**419.7493**	**15.15562**	**410.0834**	**2.454002**	**1.300869**
Stddev	.05332	.7650	.02941	.9601	.008315	.003234
%RSD	.3460562	.1822479	.1940247	.2341290	.3388278	.2486343
#1	15.45200	420.5878	15.16917	411.1888	2.450865	1.303502
#2	15.34883	419.5706	15.17580	409.4564	2.463429	1.297259
#3	15.42379	419.0894	15.12188	409.6052	2.447713	1.301847

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**384.1197**	**2.444695**	**15.50309**	**159.4383**	**4.918047**	F **5.911804**
Stddev	.6342	.009601	.04738	.5610	.012769	.022160
%RSD	.1651122	.3927300	.3056055	.3518643	.2596372	.3748463
#1	384.2857	2.446740	15.45991	159.7937	4.903473	5.922627
#2	384.6544	2.434236	15.55378	159.7296	4.923398	5.886312
#3	383.4190	2.453108	15.49559	158.7915	4.927269	5.926472

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCV036 Acquired: 2/2/2025 15:18:00 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV036 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.883399**	**4.959668**	**4.787977**	**4.916042**	**4.925322**	**5.201490**
Stddev	.010138	.013492	.005897	.016430	.011290	.024907
%RSD	.2076012	.2720383	.1231589	.3342104	.2292257	.4788439
#1	4.874478	4.944476	4.781612	4.906186	4.927524	5.203730
#2	4.894424	4.970252	4.789064	4.935008	4.913093	5.225200
#3	4.881294	4.964277	4.793254	4.906930	4.935349	5.175538

Elem	Sr4077
Units	ppm
Avg	**5.344944**
Stddev	.043602
%RSD	.8157586
#1	5.336092
#2	5.306448
#3	5.392293

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2904.087**	**58624.20**	**11694.59**	**1888.888**	**3201.417**
Stddev	3.704	190.40	82.23	3.587	6.119
%RSD	.1275343	.3247849	.7031299	.1898844	.1911305
#1	2903.029	58474.64	11666.04	1892.275	3202.419
#2	2901.028	58838.54	11787.28	1889.260	3194.859
#3	2908.205	58559.42	11630.43	1885.130	3206.974

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB036 Acquired: 2/2/2025 15:22:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001431**	**-.000616**	**-.000080**	**-.001678**	**.0007669**	**.0023413**	**.0051644**
Stddev	.000999	.000095	.000860	.004078	.0008869	.0105139	.0002282
%RSD	69.84433	15.44124	1075.404	243.0038	115.6515	449.0576	4.418198
#1	-.001296	-.000726	.000903	-.003312	.0012860	-.004098	.0052641
#2	-.002491	-.000564	-.000452	.002963	-.000257	.014474	.0053258
#3	-.000506	-.000558	-.000691	-.004686	.001272	-.003352	.0049033

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000694**	**.0000251**	**.0110026**	**.0006106**	**.0002974**	**.0020999**	**.0145025**
Stddev	.0000631	.0000091	.0090020	.0000889	.0000626	.0007111	.0020981
%RSD	90.91461	36.30271	81.81729	14.56618	21.06307	33.86141	14.46751
#1	.0000006	.0000226	.0195851	.0005231	.0003348	.0013189	.0168023
#2	.0000830	.0000352	.0016327	.0007009	.0002251	.0022713	.0126927
#3	.0001247	.0000175	.0117901	.0006078	.0003323	.0027097	.0140123

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001860**	**.0020861**	**-.000182**	**.0003822**	**-.240732**	**-.000920**	**-.000540**
Stddev	.0003073	.0144504	.000035	.0002200	.348576	.001433	.002421
%RSD	165.2305	692.6953	19.19223	57.57186	144.7984	155.7106	447.9847
#1	.0005368	.0067609	-.000213	.0003634	-.535307	-.000706	-.002016
#2	.0000562	.0136203	-.000188	.0006110	.144094	-.002447	.002253
#3	-.000035	-.014123	-.000144	.0001722	-.330983	.000394	-.001858

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3924953**	**.0010126**	**-.001551**	**.0002435**	**.0023591**	**.0049625**	**-.000139**
Stddev	.0120744	.0019253	.000361	.0001844	.0011168	.0026428	.000799
%RSD	3.076326	190.1245	23.24864	75.71499	47.33907	53.25561	573.6245
#1	.3986420	.0025951	-.001228	.0001712	.0016191	.0068050	.000579
#2	.4002597	-.001131	-.001940	.0004530	.0036437	.0061480	-.001000
#3	.3785843	.001574	-.001484	.0001062	.0018145	.0019345	.000003

Reviewed By:Eman
On:2/5/2025 9:21:39 AM
Inst Id :P4

Sample Name: CCB036 Acquired: 2/2/2025 15:22:19 Type: Unk
Method: EPA SFAM01.0(v61) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB036 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0013569	-.003432	.0001408
Stddev	.0002642	.001404	.0000609
%RSD	19.47342	40.90695	43.22121
#1	.0010675	-.003769	.0001568
#2	.0014180	-.001890	.0001921
#3	.0015853	-.004636	.0000735

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3596.865	69644.88	12607.37	2290.746	4305.843
Stddev	39.306	246.26	20.78	12.428	45.139
%RSD	1.092782	.3535869	.1648523	.5425148	1.048328
#1	3559.222	69855.63	12624.35	2297.335	4262.680
#2	3593.728	69374.18	12584.19	2276.411	4302.121
#3	3637.646	69704.82	12613.56	2298.492	4352.728

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : Q1223

Test : Metals CLP12

Prepbatch ID : PB166385,

Sequence ID/Qc Batch ID: LB134523,

Standard ID :
MP83500,MP84041,MP84063,MP84070,MP84204,MP84206,MP84207,MP84208,MP84209,MP84210,MP84211,MP84212,MP84213,MP84214,MP84215,MP84216,MP84218,MP84219,

Chemical ID :
M5130,M5218,M5223,M5289,M5295,M5298,M5393,M5429,M5466,M5472,M5476,M5496,M5497,M5513,M5519,M5565,M5658,M5697,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5817,M5819,M5875,M5942,M5959,M5961,M5962,M5976,M5977,M5978,M5985,M5990,M6021,M6023,M6025,M6028,M6030,M6032,M6077,M6121,M6125,M6126,M6127,M6128,M6144,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP83500	12/06/2024	01/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 12/09/2024

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP84063	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M5806 + 10.00000ml of M6127 + 2.00000ml of M5942 + 4.00000ml of M6032 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP84070	01/14/2025	02/14/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/16/2025

FROM 2.50000ml of M5962 + 50.00000ml of M5565 + 50.00000ml of M5990 + 147.50000ml of MP83500 = 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
902	ICP AES CAL BLK (SO/ICB/CCB)	MP84204	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP84206	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5497 + 4.00000ml of M6127 + 4.00000ml of M6144 + 30.00000ml of MP84204 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP84207	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5819 + 12.50000ml of M6128 + 12.50000ml of M6144 + 13.75000ml of M5697 + 14.50000ml of M5298 + 14.50000ml of M5496 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M6127 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5875 + 5.00000ml of M6077 + 303.50000ml of MP84204 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP84208	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 250.00000ml of MP84204 + 250.00000ml of MP84207 = 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
1007	ICPAES ISM01.2(S3)	MP84209	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of MP84207 + 75.00000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP84210	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 12.50000ml of MP84207 + 87.50000ml of MP84204 = 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
994	ICPAES ISM01.2 S1 (CONC.)	MP84211	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5298 + 0.20000ml of M5476 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5977 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M6128 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5961 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5497 + 10.00000ml of M5519 + 10.00000ml of M6127 + 10.00000ml of M6144 + 2.00000ml of M5978 + 4.00000ml of M6032 + 34.24000ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP84212	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.50000ml of MP84211 + 99.50000ml of MP84204 = 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
912	ICP AES ICV SOLN	MP84213	01/24/2025	02/05/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5466 + 0.25000ml of M5218 + 0.25000ml of M5472 + 10.00000ml of M5295 + 89.77500ml of MP84204 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP84214	01/24/2025	02/07/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of M5130 + 225.00000ml of MP84204 = 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
905	ICP AES ICSAB SOLN	MP84215	01/24/2025	02/07/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP84204 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP84216	01/24/2025	02/04/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 0.75000ml of M5497 + 0.75000ml of M6127 + 1.22500ml of M5496 + 1.25000ml of M5298 + 1.25000ml of M6144 + 19.77500ml of MP84204 + 25.00000ml of MP84207 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP84218	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP84219	01/24/2025	02/24/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 01/27/2025

FROM 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICP) STOCK SOLN	ICSA-1211	01/31/2025	05/20/2024 /bin	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	S2-MEB711674	11/02/2026	07/01/2022 / bin	09/10/2021 / bin	M5218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSAB (ICP) STOCK SOLN	ICSB-0710	01/31/2025	05/20/2024 /bin	04/20/2021 / bin	M5223

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	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

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	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	10/12/2022 / bin	09/19/2022 / bin	M5393

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57058 / Cerium, 1000PPM, 100ML	061322	06/13/2025	03/06/2023 / bin	03/01/2023 / bin	M5466

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	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

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	08/29/2025	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.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

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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	03/18/2023 / bin	03/17/2023 / bin	M5497

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.	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 #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	05/30/2023 / jaswal	05/26/2023 / jaswal	M5565

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

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	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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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

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

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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.	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.	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 #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

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	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

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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	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

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 #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	U2-IN729349	02/21/2028	10/08/2024 / Jaswal	06/14/2024 / Jaswal	M5985

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-5 / CLP Spike Standard 5	V2-MEB742037	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5990

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	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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	08/05/2024 / 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

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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	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	V2-MEB746762	09/06/2029	01/23/2025 / kareem	09/19/2024 / kareem	M6077

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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

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)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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 #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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:	CLPP-SPK-5
Lot Number:	V2-MEB742037
Matrix:	5% (v/v) HNO_3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Selenium, Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead

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	49.99 ± 0.22 µg/mL	Lead, Pb	19.99 ± 0.09 µg/mL
Selenium, Se	50.00 ± 0.23 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.025 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

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

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

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
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		

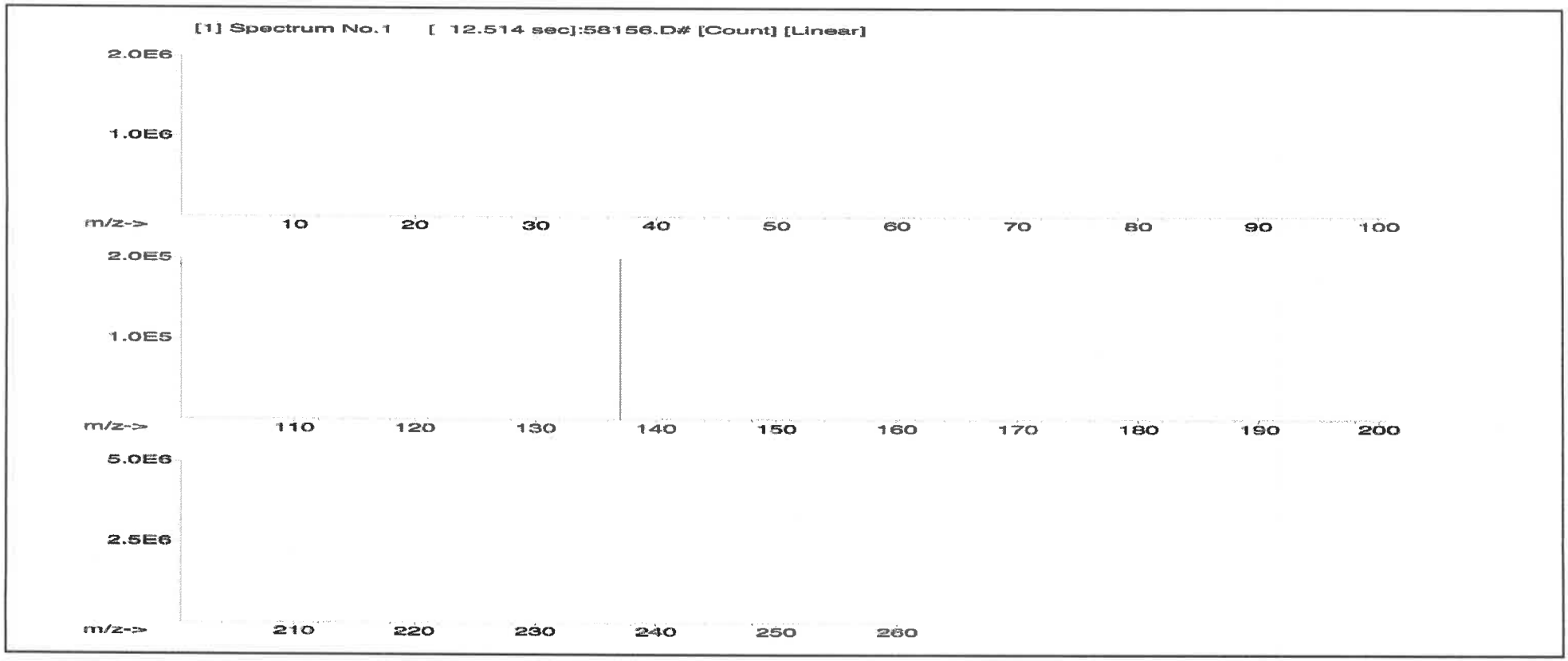
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

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	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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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	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:

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

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R 8/5/24

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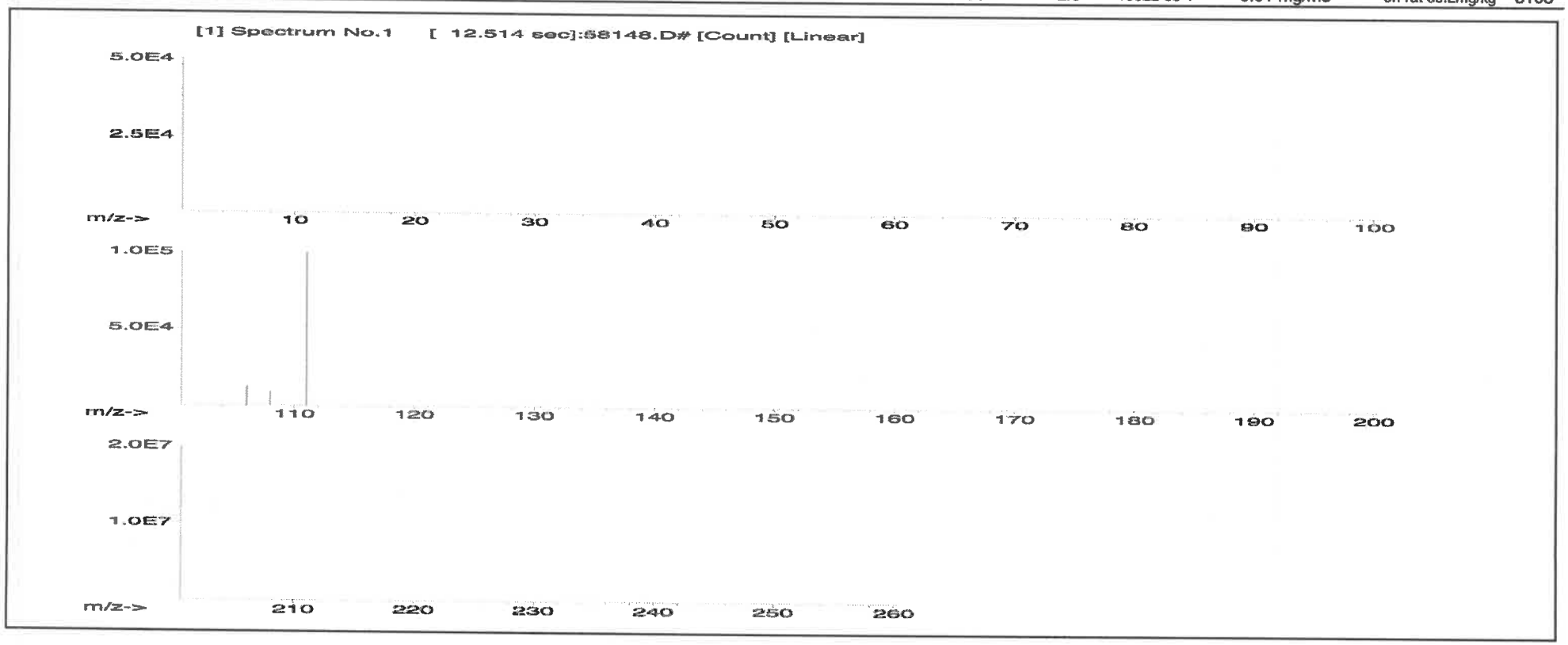
CERTIFIED WEIGHT REPORT:

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
Pedro Rentas		
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:

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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Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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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-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

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**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 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**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 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
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
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
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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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**

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

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

January 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

- **January 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

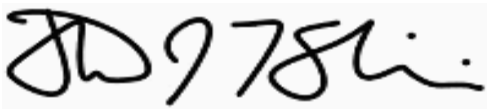
- Sealed TCT Bag Open Date: _____

- 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

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

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-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

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**

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

January 13, 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

- **January 13, 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

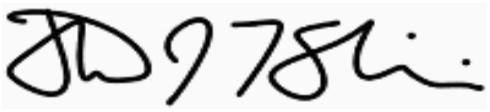
- Sealed TCT Bag Open Date: _____

- 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

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

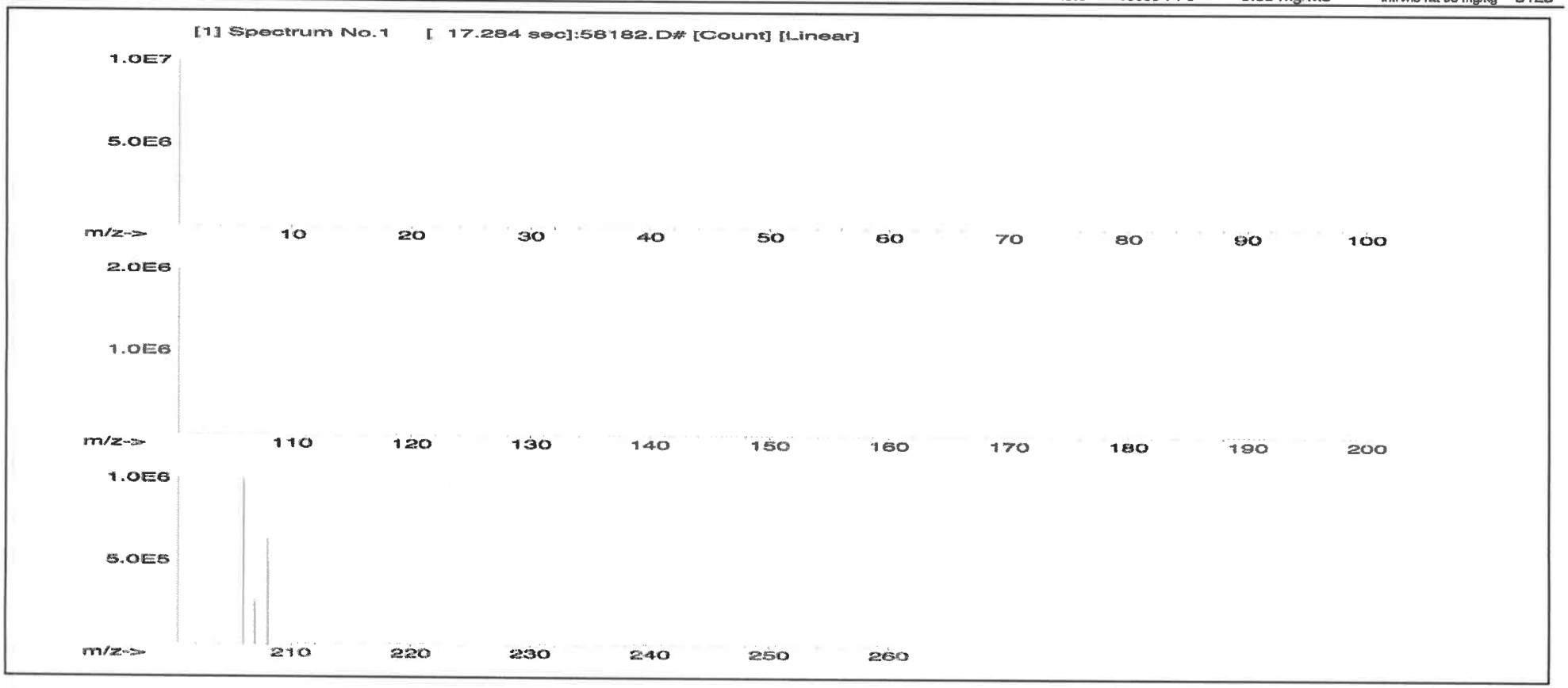
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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



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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	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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (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 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. 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 ICP-AES 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-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 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.

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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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:	CHEM-QC-4
Lot Number:	S2-MEB711674
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 7 µg/mL**	**Molybdenum, Mo**	**1 000 ± 5 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 5 µg/mL**
Titanium, Ti	**1 001 ± 6 µg/mL**		

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

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.

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

November 02, 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

- **November 02, 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

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
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Instructions for QATS Reference Material: *ICP-AES ICS*

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (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 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-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

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 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 interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. 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 ICP-AES 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-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, 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 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES 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-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 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.

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M5289 R: 07/12/22 (BH)

Certified Reference Material CRM

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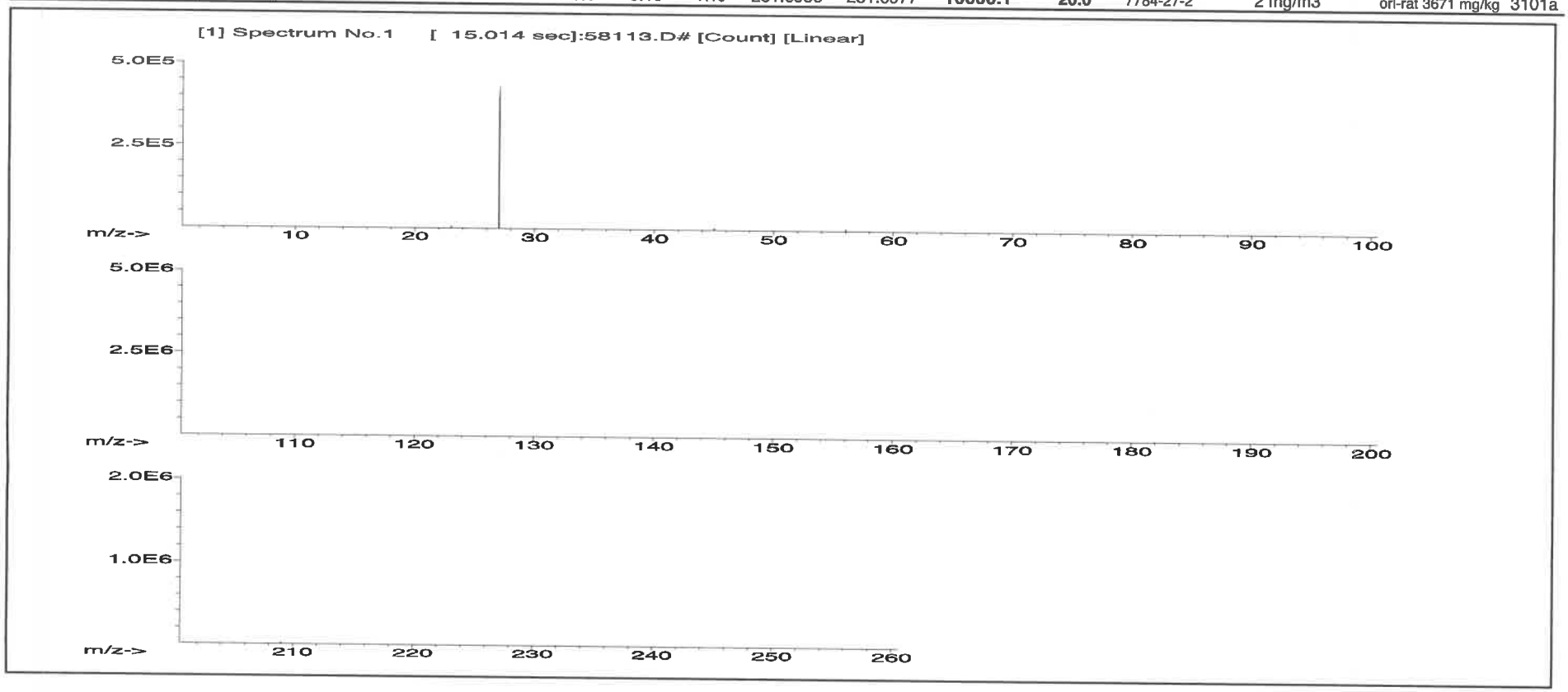
CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	070625				
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	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.

* 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).

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

SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

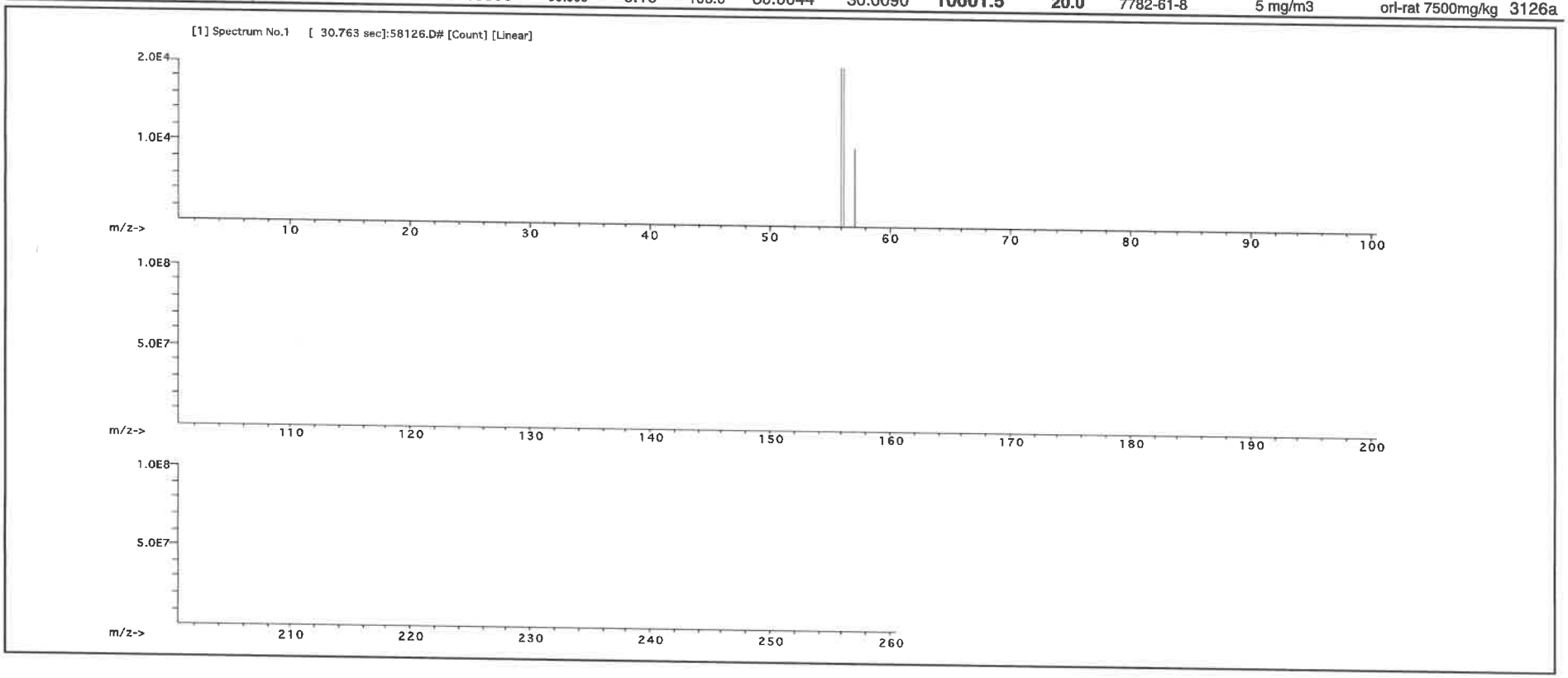
	Lot #		
Solvent:	20370011	Nitric Acid	
5.0%	150.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

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(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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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	<0.10	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	<0.5	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	<0.02
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).

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Certified Reference Material CRM

M5429 R1 01/26/23 BH

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CERTIFIED WEIGHT REPORT:

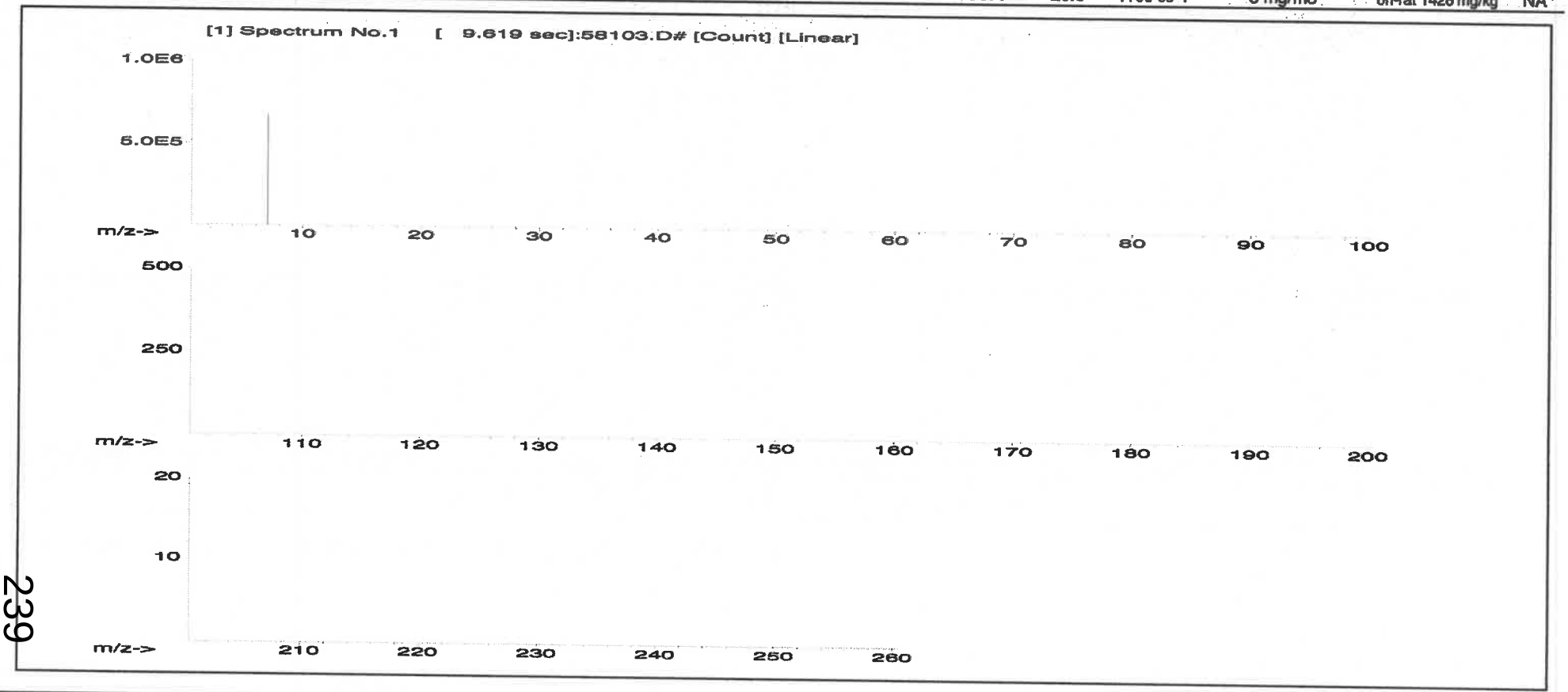
Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	20.0 (mL)	Nitric Acid	± 5E-05 Balance 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. Lithium nitrate (Li)	IN019	LIZ042018A1	10000	99.999	0.10	10.0	100.0134	100.0173	**10000.4**	**20.0**	7790-69-4	5 mg/m3	orl-rat 1426 mg/kg	NA



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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	T	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:

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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M 5466
R: 03/01/23 BH

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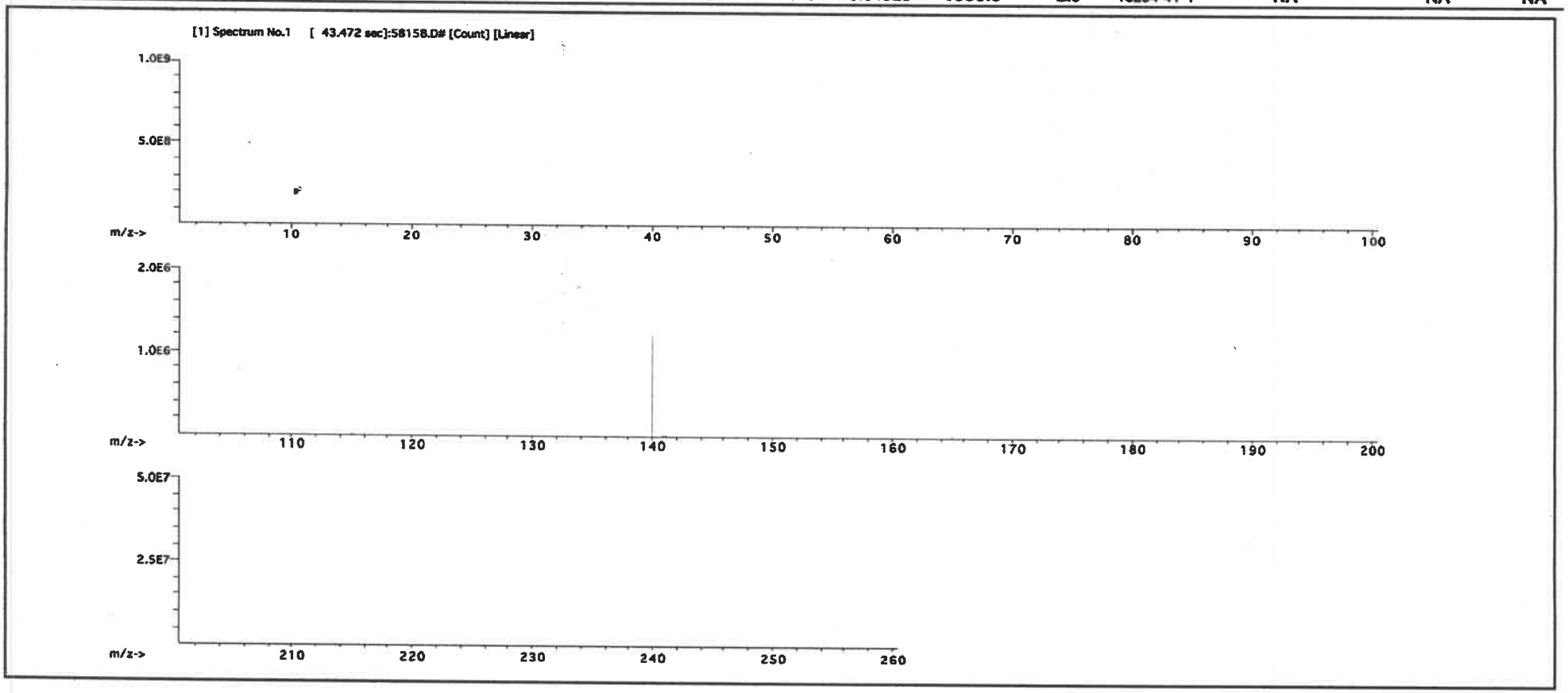
CERTIFIED WEIGHT REPORT:

Part Number:	**57058**			**Lot #**	
Lot Number:	**061322**	**Solvent:**	20510011	Nitric Acid	
Description:	**Cerium (Ce)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	061325				
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):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	061322
Reviewed By:	Pedro L. Rentas	061322

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. Cerium nitrate hexahydrate (Ce)	IN146	Z512CEB1	1000	99.999	0.10	32.8	3.04919	3.04923	1000.0	2.0	10294-41-4	NA	NA	NA



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	T	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).

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Certified Reference Material CRM

M5496 R 7/20/23

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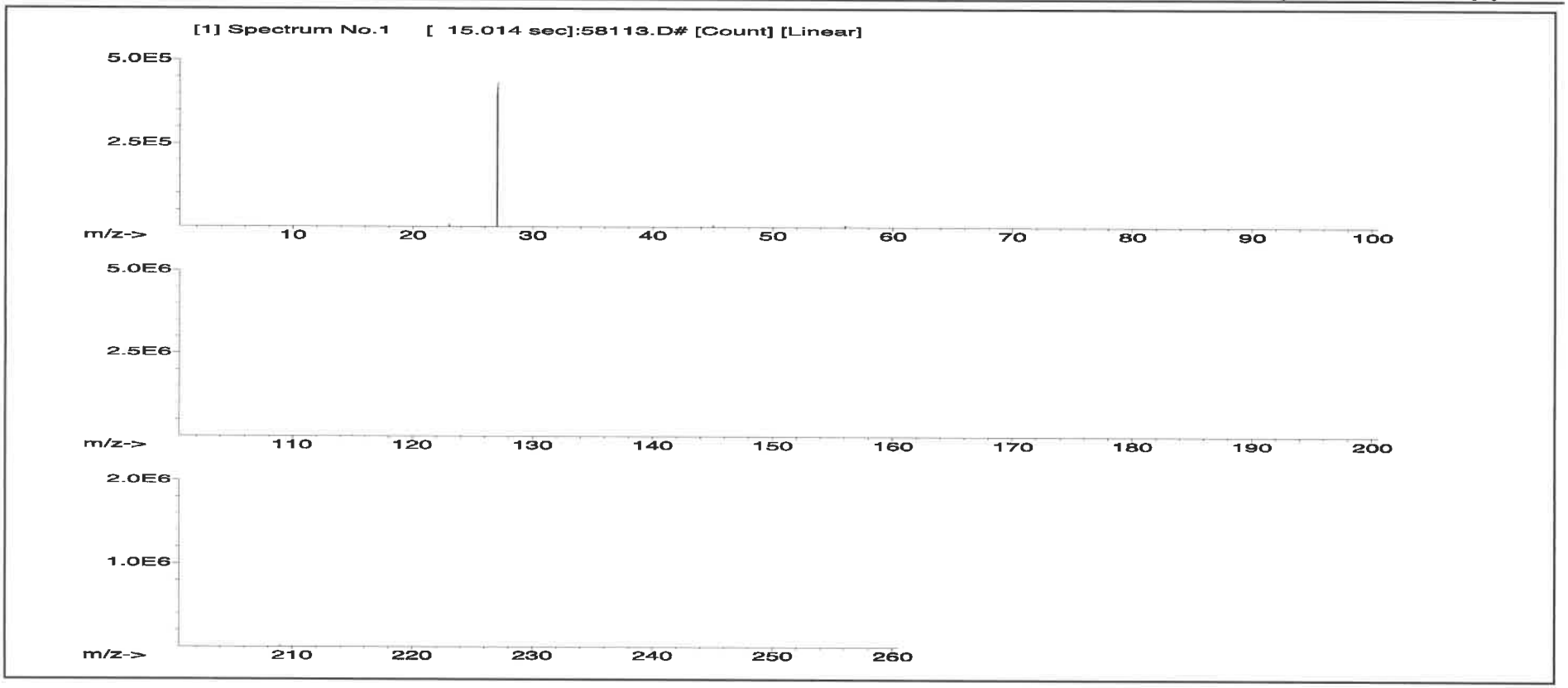
CERTIFIED WEIGHT REPORT:

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
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



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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)

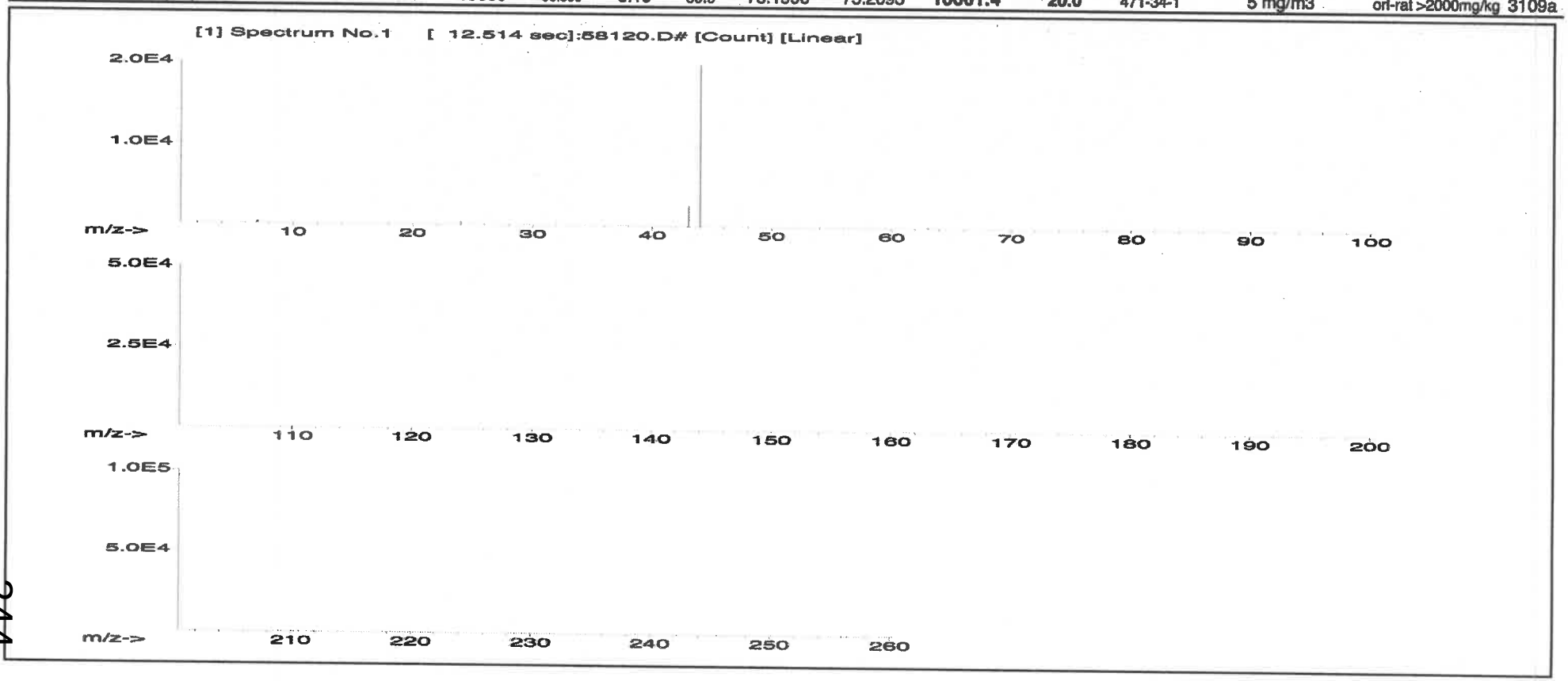
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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
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



244

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.
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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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Certified Reference Material CRM

MS513 R:03/17/23

ANAB ISO 17034 Accredited
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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

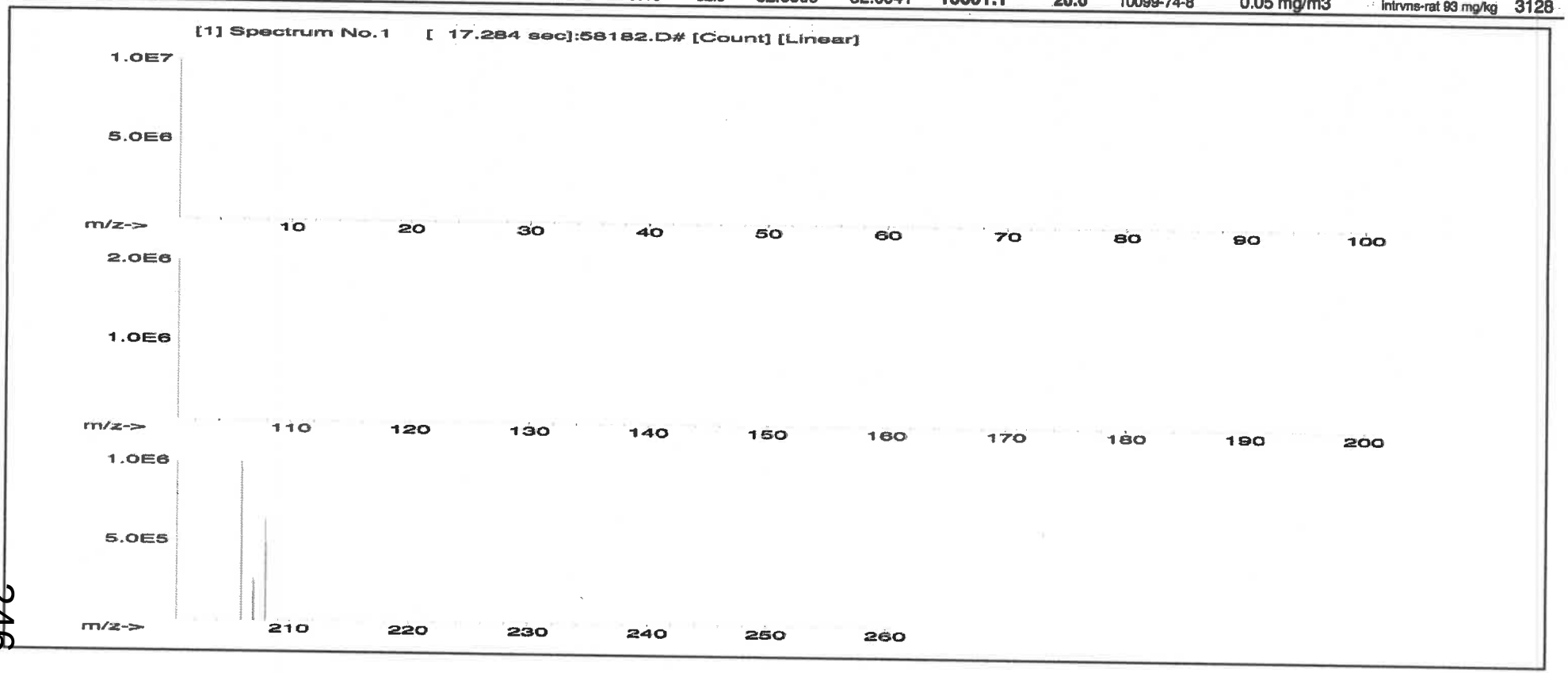
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



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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	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.
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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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Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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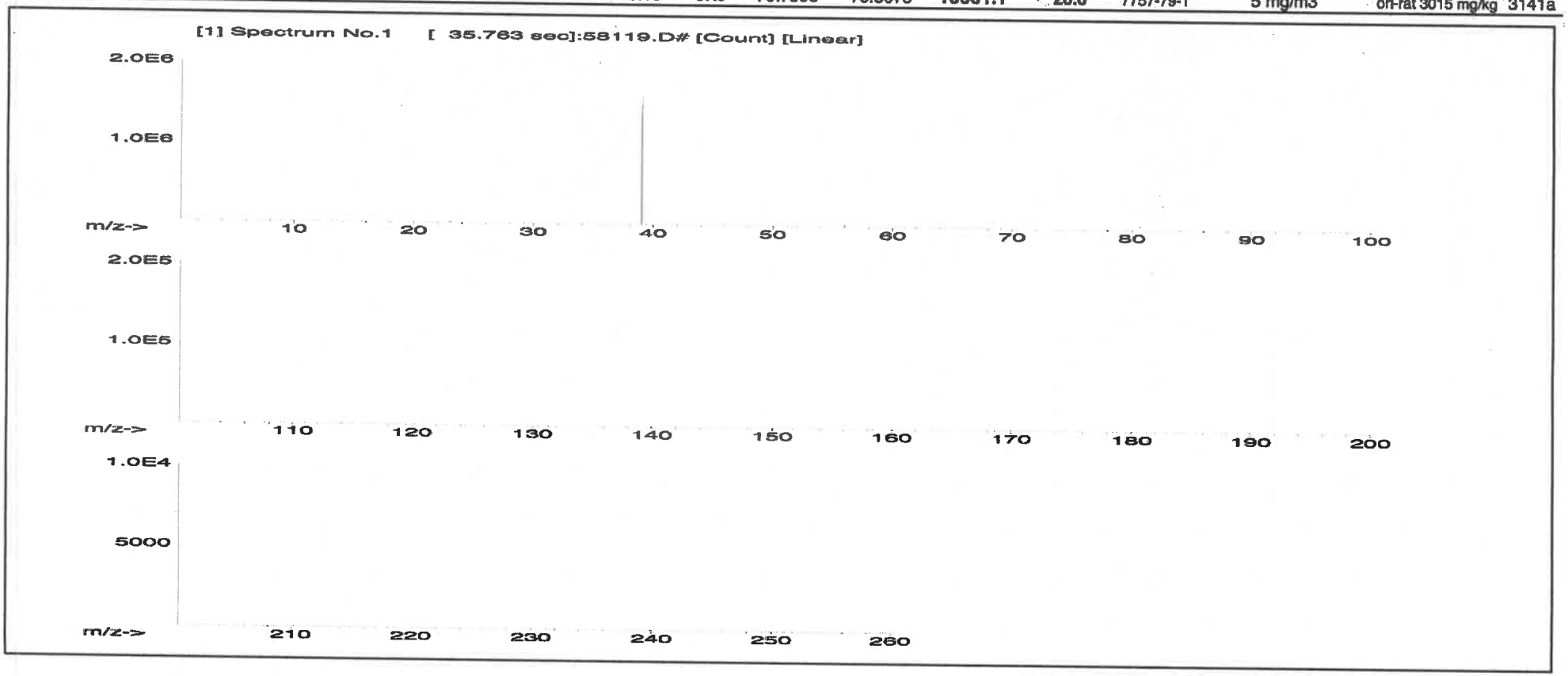
CERTIFIED WEIGHT REPORT:

Part Number:	**58119**		**Lot #**		
Lot Number:	**120822**	**Solvent:**	20510011	Nitric Acid	
Description:	**Potassium (K)**				
		2%	60.0 (mL)	Nitric Acid	
Expiration Date:	120825				
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		

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
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



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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	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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inorganicventures.com

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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).

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:

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 (t) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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 (t) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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

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Certified Reference Material CRM

M5658 R ! 8/25/23

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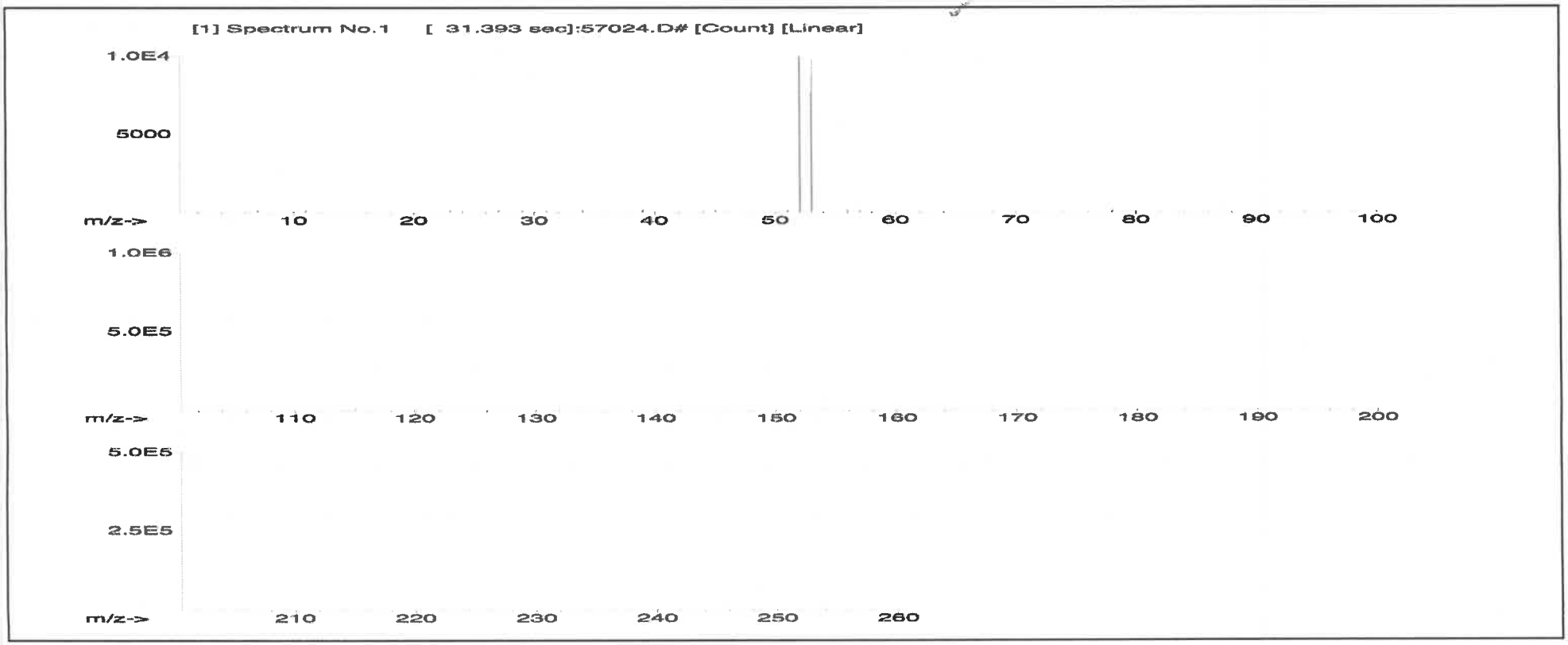
CERTIFIED WEIGHT REPORT:

		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



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.
* 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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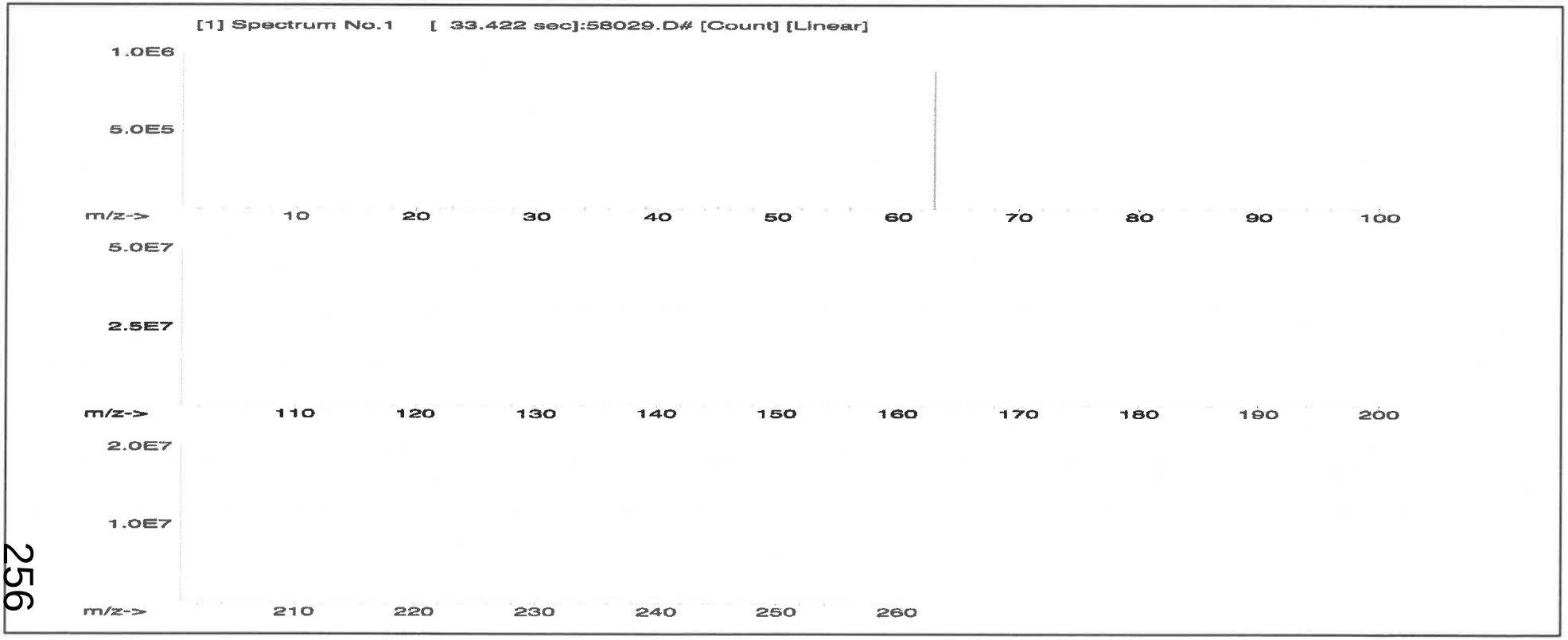
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		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. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



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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	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:

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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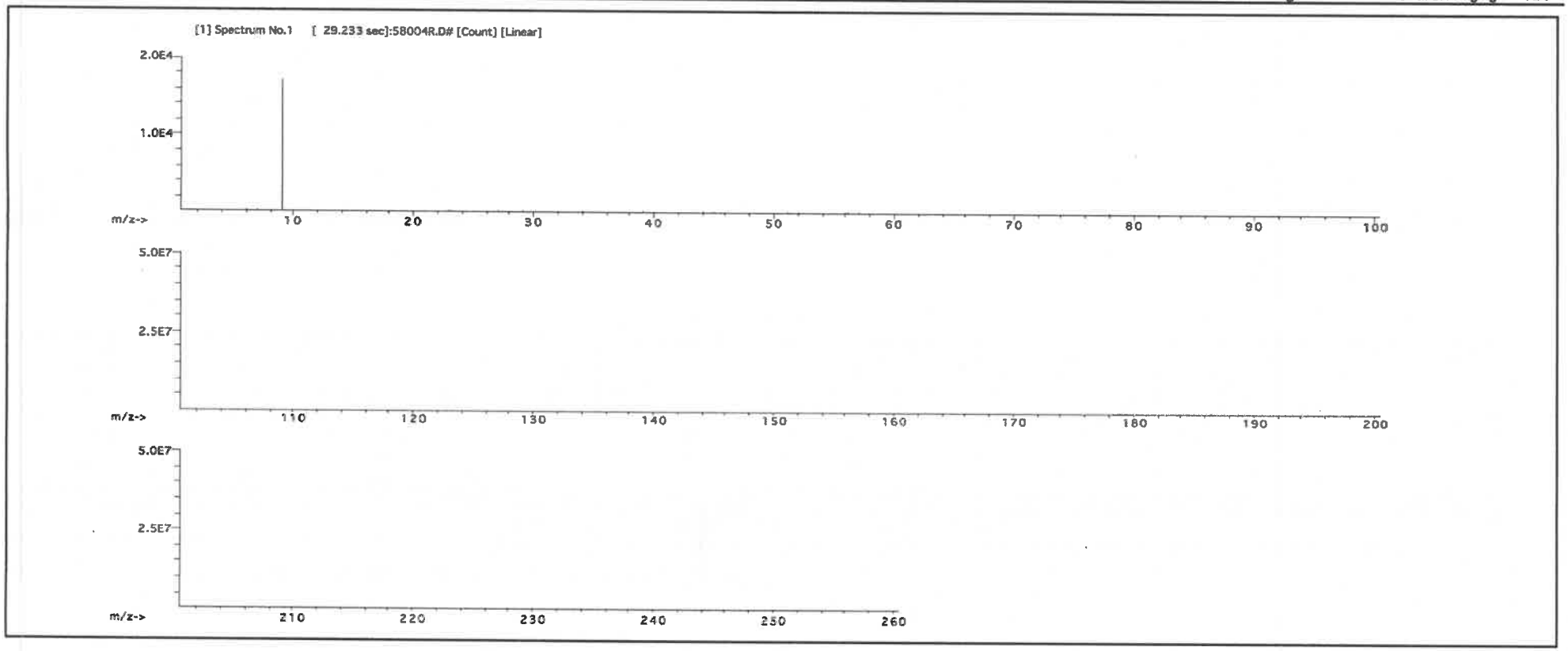
CERTIFIED WEIGHT REPORT:

		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.

* 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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* 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 WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

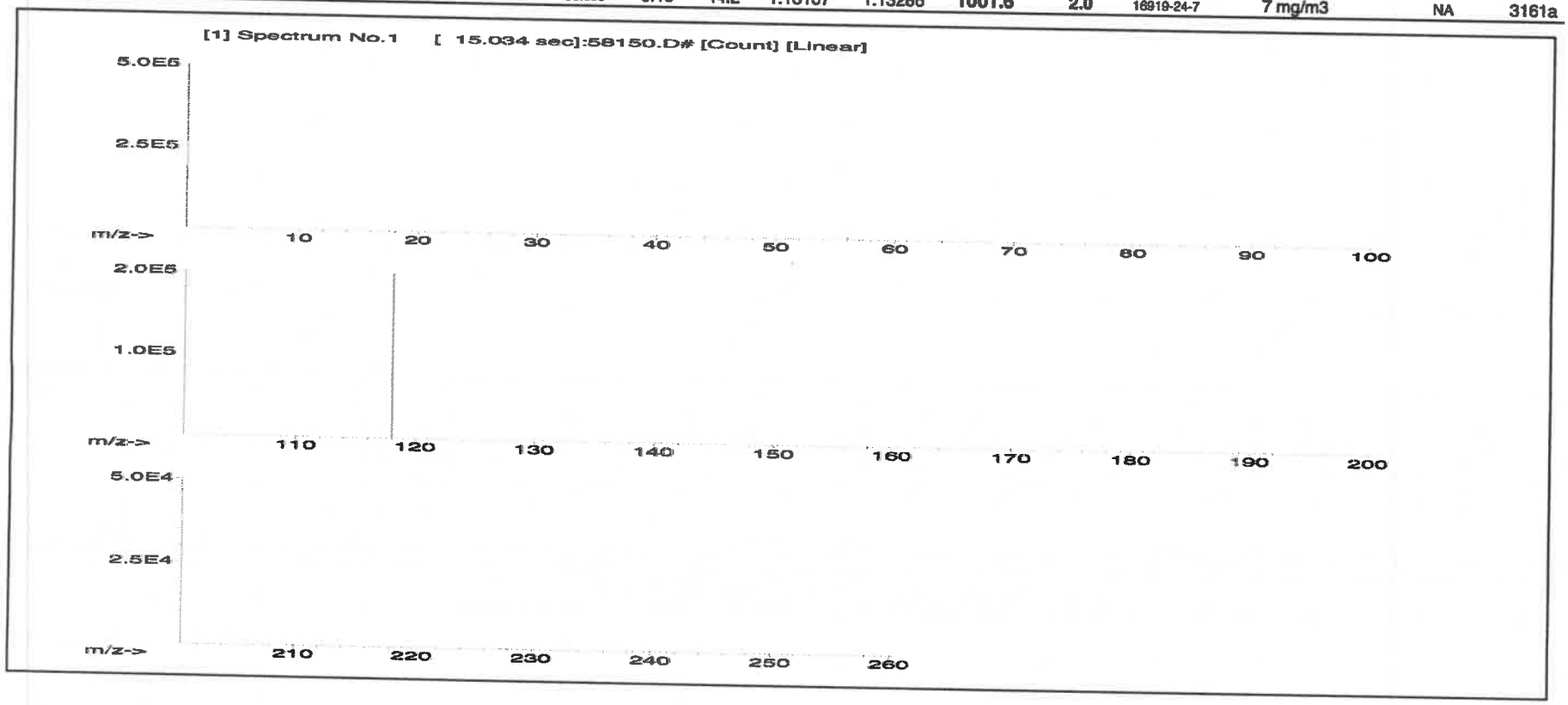
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



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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	<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:

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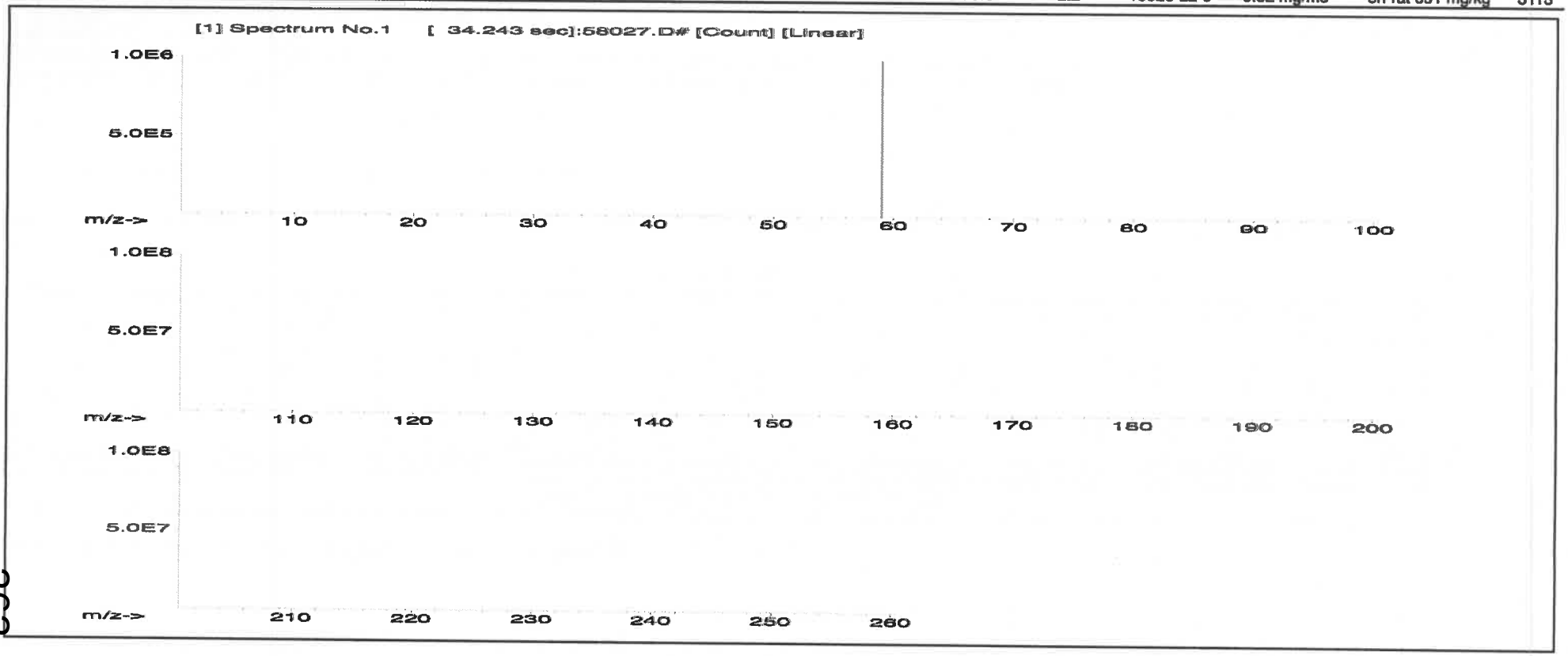
CERTIFIED WEIGHT REPORT:

		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



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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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* 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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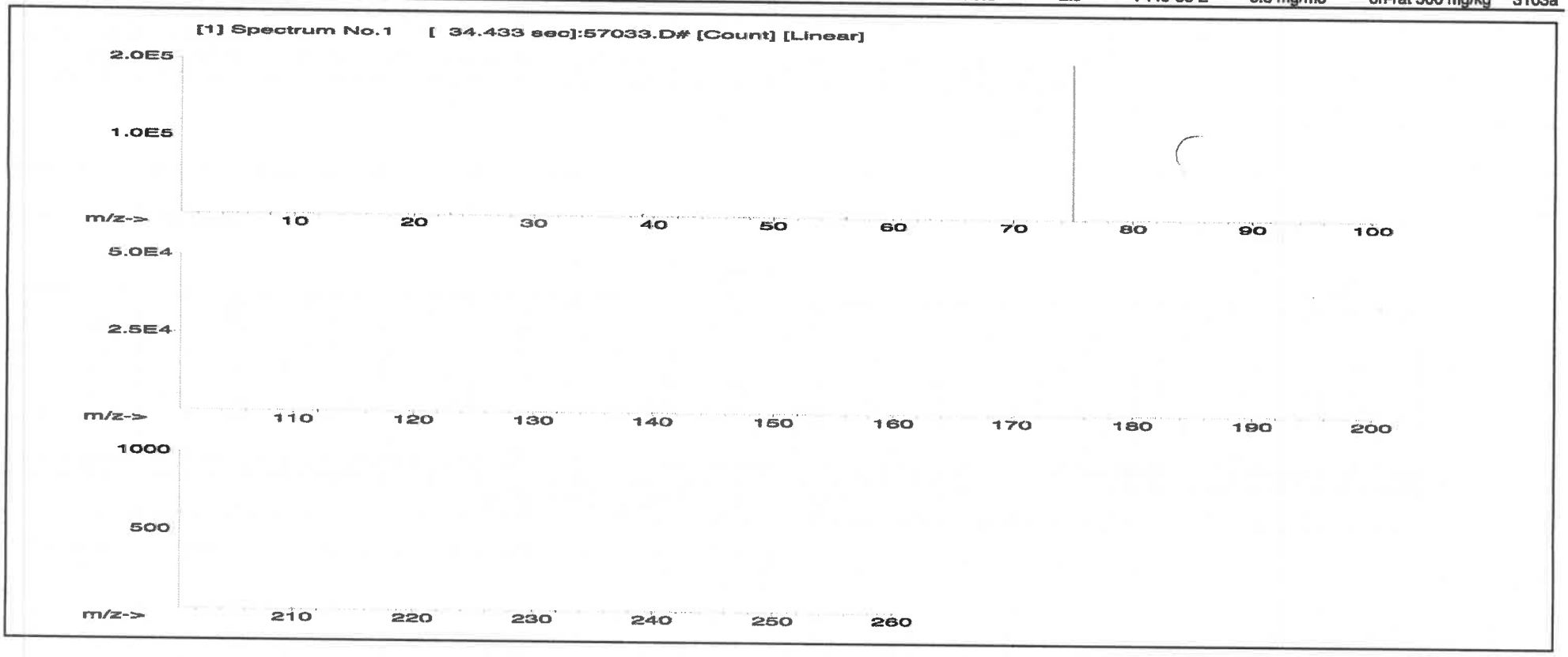
CERTIFIED **WEIGHT** REPORT:

		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



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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	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.

* 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

R1 02/09/24. M58165

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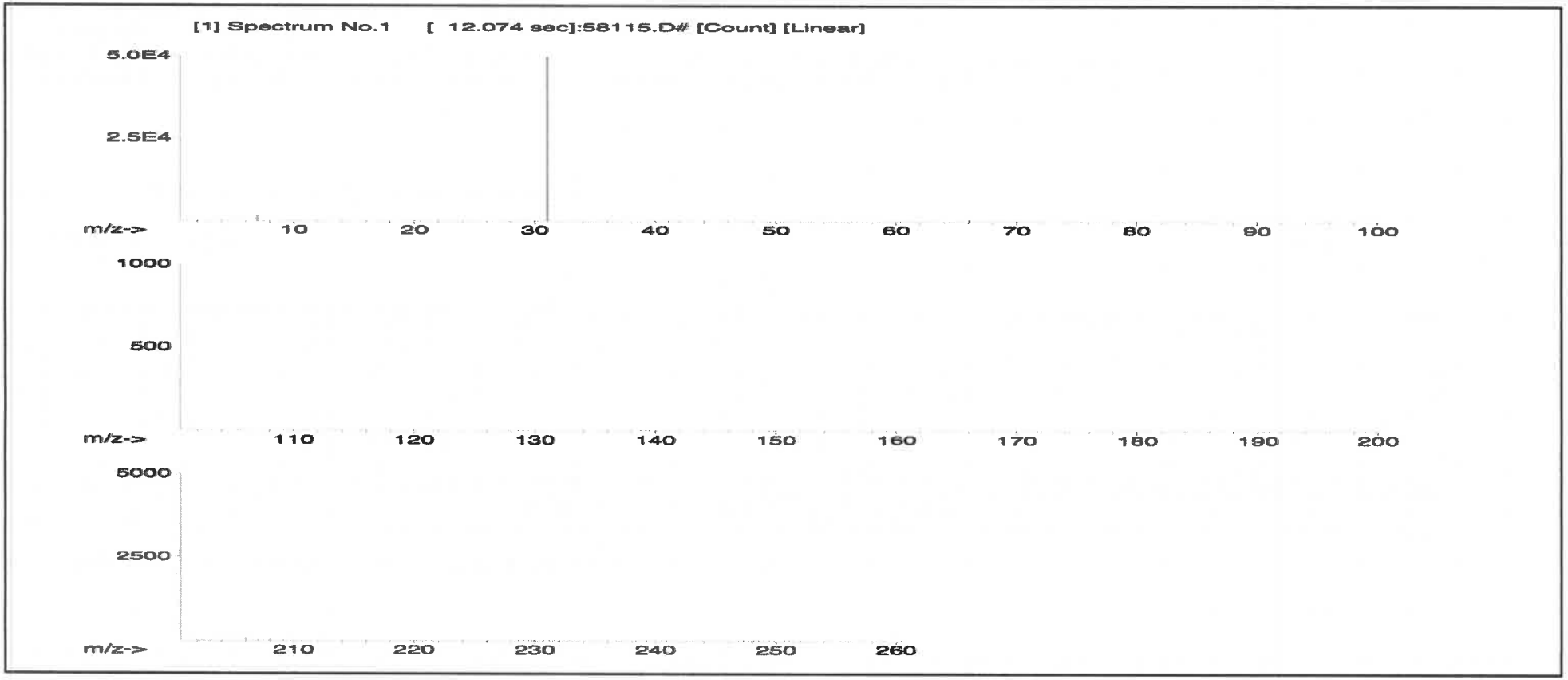
CERTIFIED WEIGHT REPORT:

		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



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.

* 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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Certified Reference Material CRM

R: 02/09/24 M5817

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CERTIFIED WEIGHT REPORT:

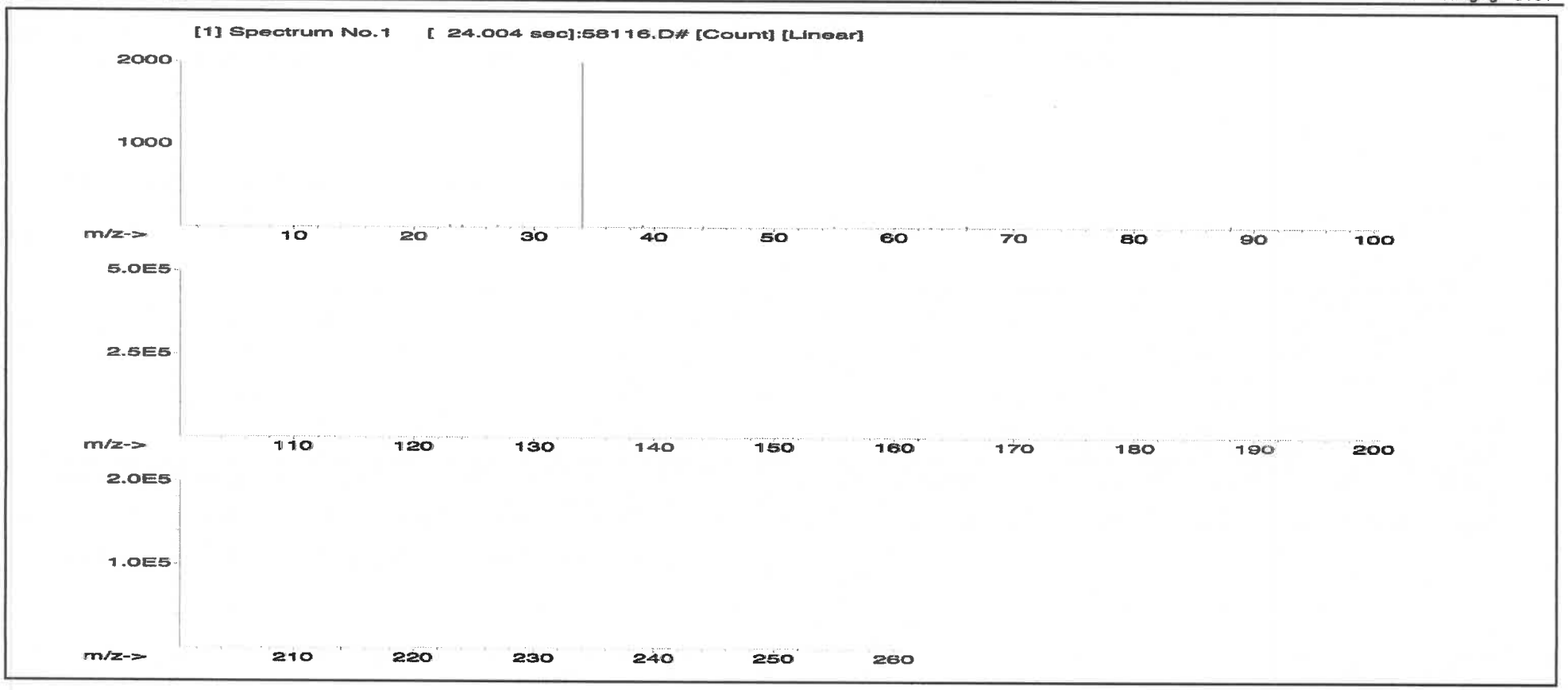
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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	ori-rat 4250mg/kg	3181



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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	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:

* 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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Certified Reference Material CRM

R: 02/09/24 M5819

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270

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

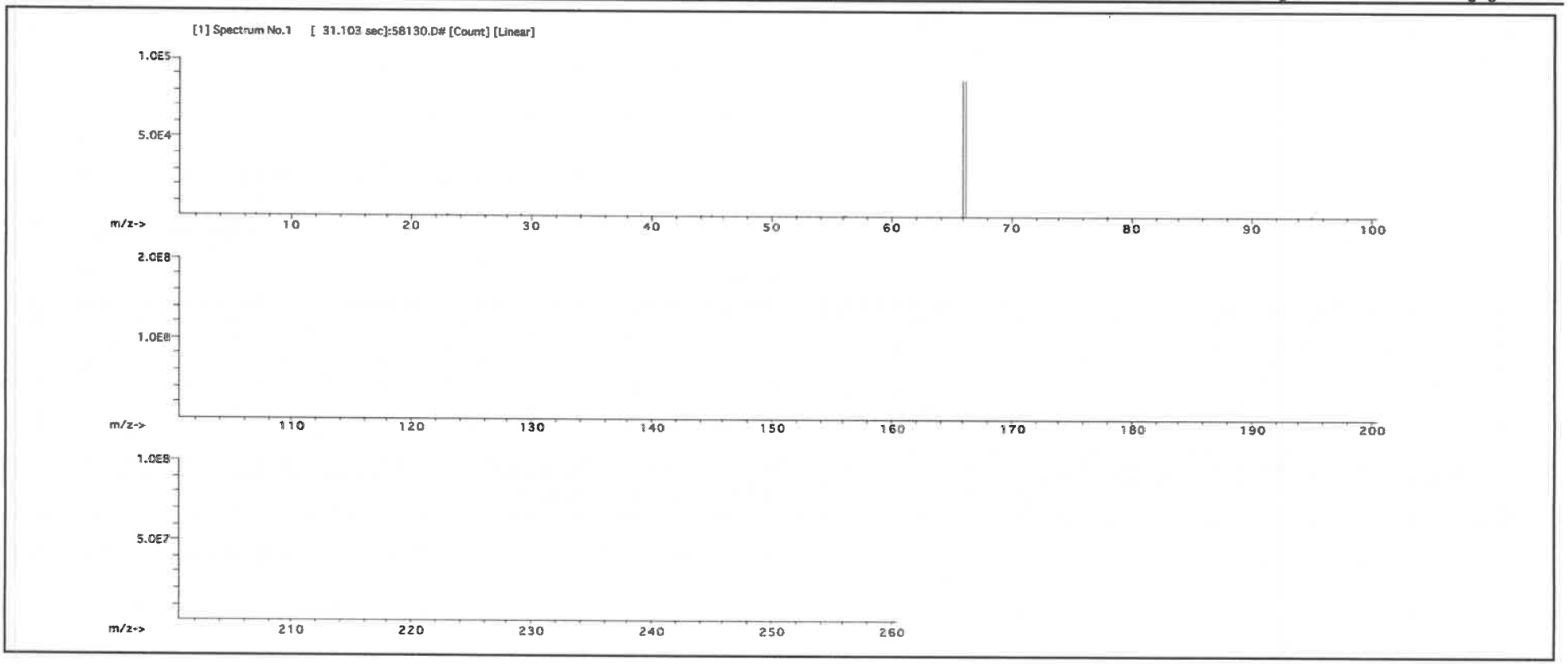
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

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



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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	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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Certificate of Analysis

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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:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO_3 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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)

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

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M5959 R: 6/14/24.

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 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- 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	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

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

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**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

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

February 20, 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

- February 20, 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 Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5961 R: 6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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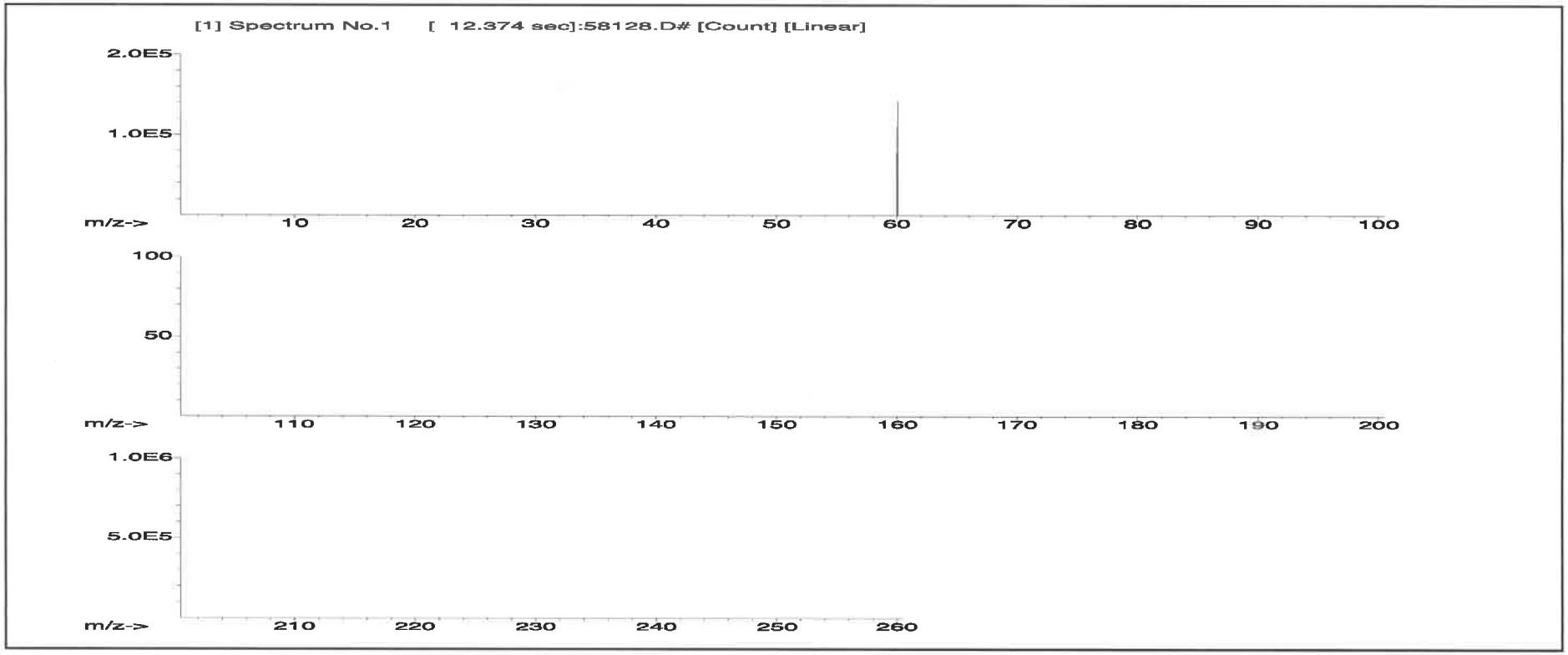
CERTIFIED WEIGHT REPORT:

			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



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.

* 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

M5962 R! 06/14/24.

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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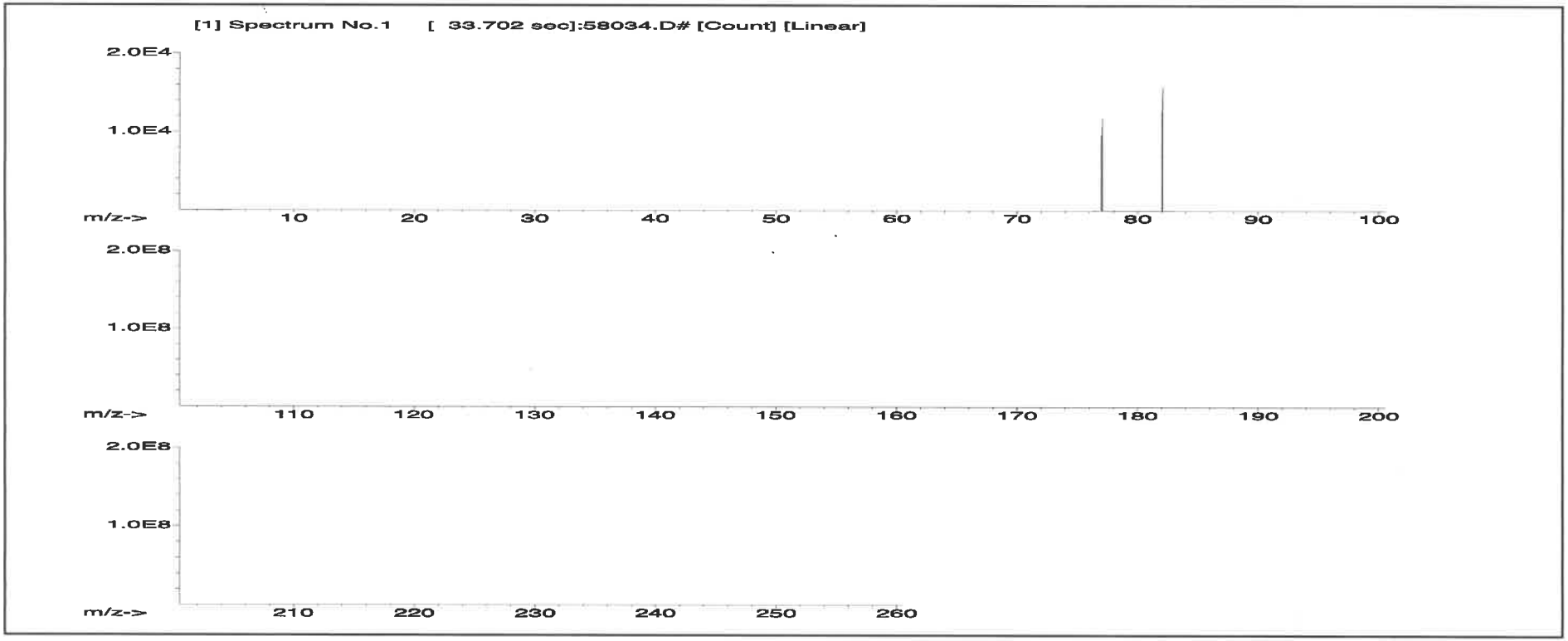
CERTIFIED WEIGHT REPORT:

		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



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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	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:

* 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.
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INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5976, M5977
R: 02/22/24

300 Technology Drive
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inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

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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

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

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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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inorganicventures.com

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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:	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

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

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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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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) HNO_3 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

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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

MS985
R: 6/14/24

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 863.01 ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGIN10
Lot Number:	U2-IN729349
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Indium
Starting Material:	Indium Metal
Starting Material Lot#:	2511
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10021 ± 56 µg/mL** ICP Assay NIST SRM 3124a Lot Number: 110516
Assay Method #2	**10035 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10001 ± 33 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- 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

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	<	0.000760	M	Eu	<	0.000760	O	Na		0.012771	M	Se	<	0.023000	M	Zn	<	0.006100
M	Al		0.003385	O	Fe		0.004462	M	Nb	<	0.000760	O	Si		0.024619	M	Zr	<	0.000760
M	As	<	0.004600	M	Ga	<	0.000760	M	Nd	<	0.000760	M	Sm	<	0.000760				
M	Au	<	0.002300	M	Gd	<	0.000760	O	Ni	<	0.005100	M	Sn	<	0.000760				
O	B		0.003692	M	Ge	<	0.001600	M	Os	<	0.000760	O	Sr	<	0.000610				
M	Ba	<	0.001600	M	Hf	<	0.000760	n	P	<		M	Ta	<	0.000760				
O	Be	<	0.000130	M	Hg	<	0.003100	M	Pb		0.001400	M	Tb	<	0.000760				
M	Bi	<	0.000760	M	Ho	<	0.000760	M	Pd	<	0.001600	M	Te	<	0.000760				
O	Ca		0.004616	s	In	<		M	Pr	<	0.000760	M	Th	<	0.000760				
M	Cd	<	0.000760	M	Ir	<	0.000760	M	Pt	<	0.000760	O	Ti	<	0.001100				
M	Ce	<	0.000760	O	K		0.007078	M	Rb	<	0.000760	M	Tl	<	0.000760				
M	Co	<	0.000760	M	La	<	0.000760	M	Re	<	0.000760	M	Tm	<	0.000760				
O	Cr	<	0.001300	O	Li	<	0.000130	M	Rh	<	0.000760	M	U	<	0.000760				
M	Cs	<	0.000760	M	Lu	<	0.000760	M	Ru	<	0.000760	M	V	<	0.001600				
M	Cu	<	0.003800	O	Mg		0.000707	n	S	<		M	W	<	0.001600				
M	Dy	<	0.000760	O	Mn		0.000149	M	Sb	<	0.000760	M	Y	<	0.000760				
M	Er	<	0.000760	M	Mo	<	0.002300	M	Sc	<	0.000760	M	Yb	<	0.000760				

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

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**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute 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 115 amu	1 ppt	n/a	115Sn, 99Ru16O
ICP-OES 158.583 nm	0.05 / 0.002 µg/mL	1	
ICP-OES 230.606 nm	0.1 / 0.03 µg/mL	1	Ni, Os
ICP-OES 325.609 nm	0.2 / 0.05 µg/mL	1	Mn, Mo, Th

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

February 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

- February 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

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Certificate of Analysis

M6074
M6075
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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

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:	CHEM-CLP-4
Lot Number:	V2-MEB746762
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

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.

300

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**

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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 06, 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

- September 06, 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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
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
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

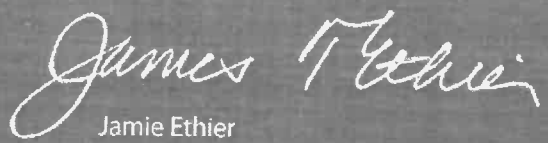
304

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg 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

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

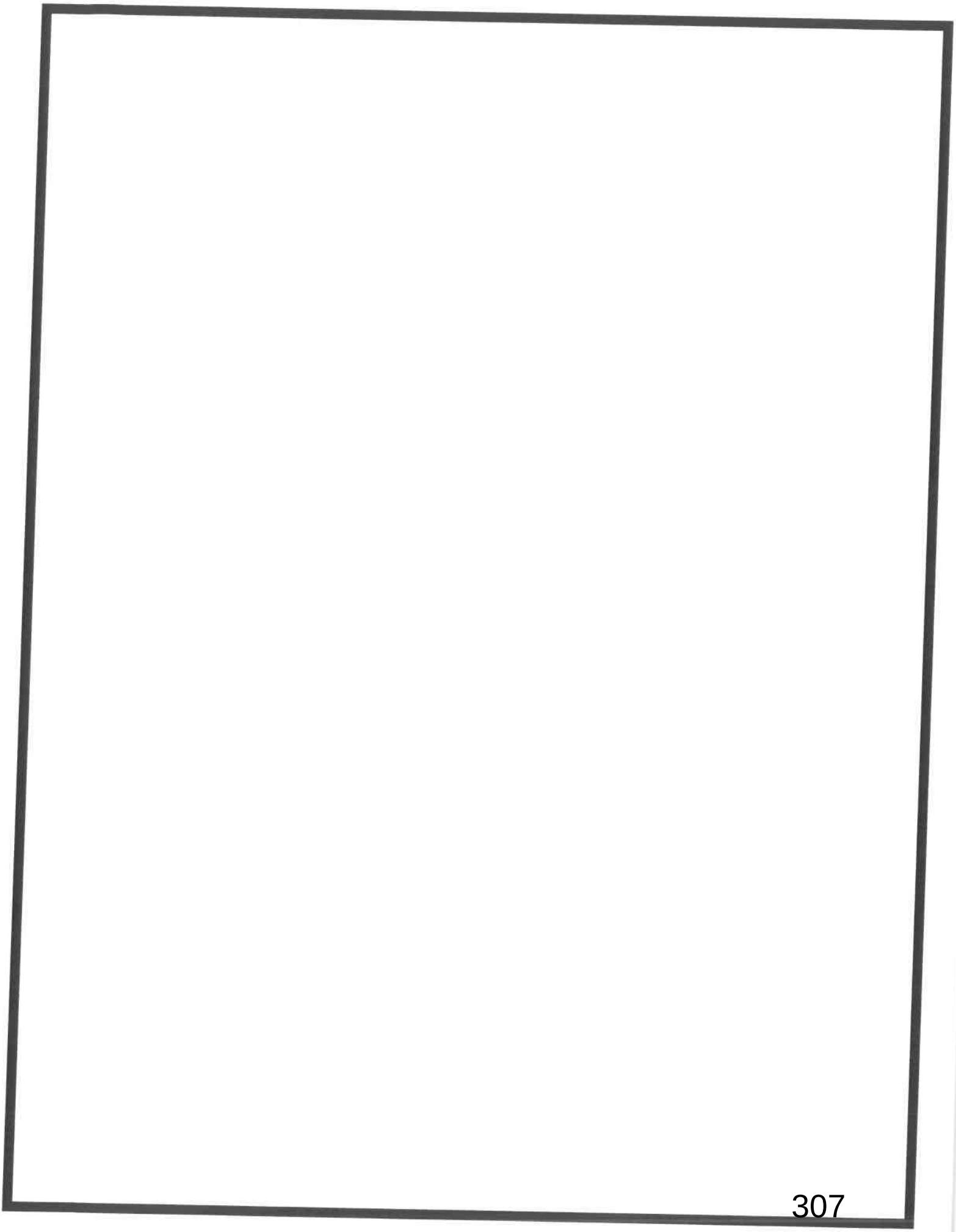
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
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	2.3 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	100 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.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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310

CERTIFIED WEIGHT REPORT:

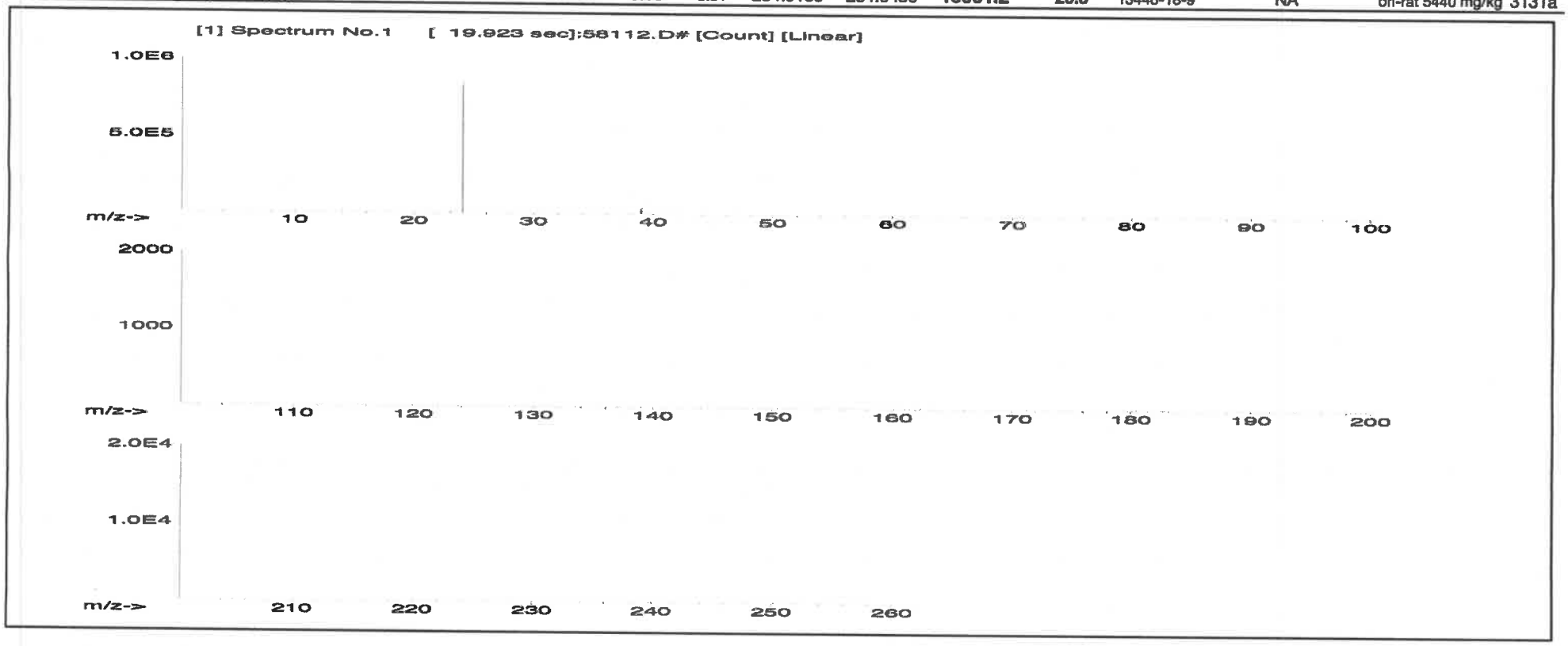
R -> 1/13/25
M 6127

Part Number:	**58112**		**Lot #**		
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid	
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	112127				
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):	2000.07	0.100	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

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	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



311

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:

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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312

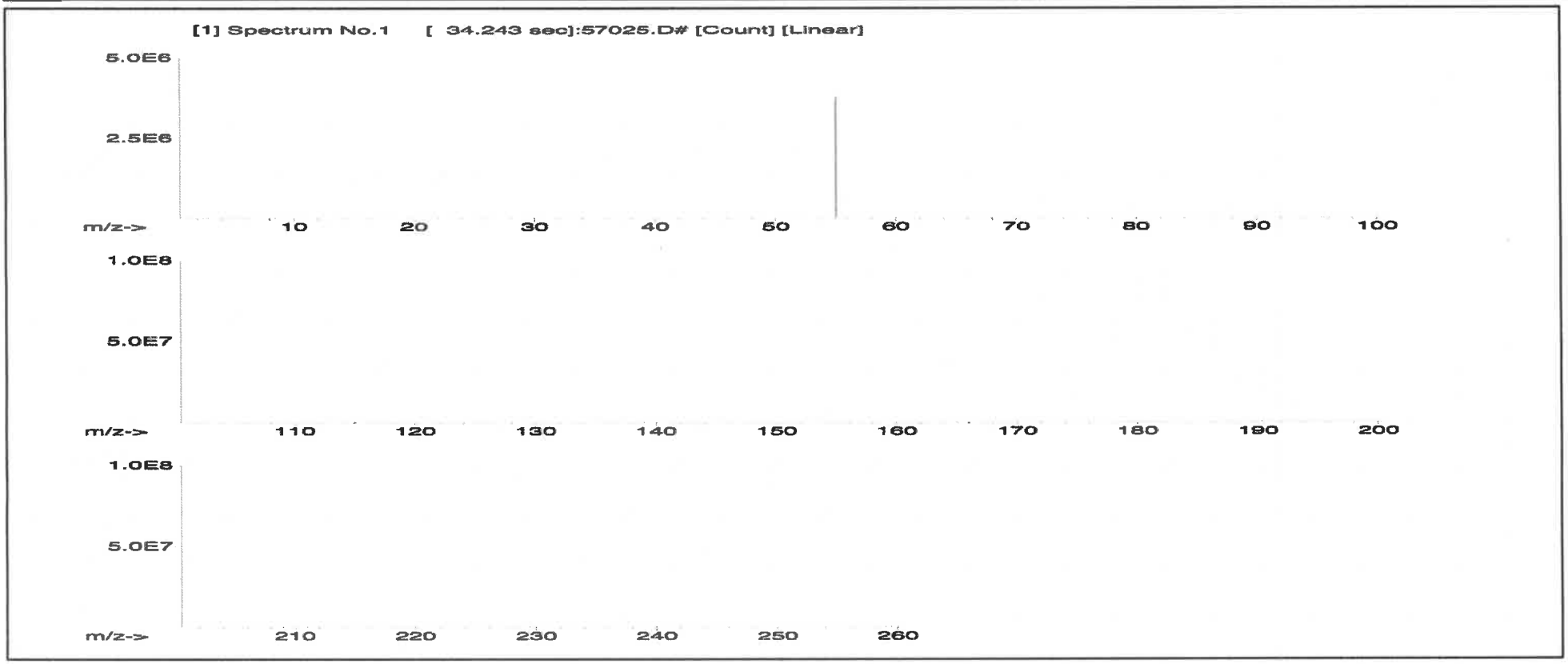
CERTIFIED WEIGHT REPORT:

R->1/13/25
M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
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):	4000.2	0.10	Flask Uncertainty	

Giovanni Esposito		
Formulated By:	Giovanni Esposito	101124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	101124

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. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



313

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 preparation of all standards.
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314

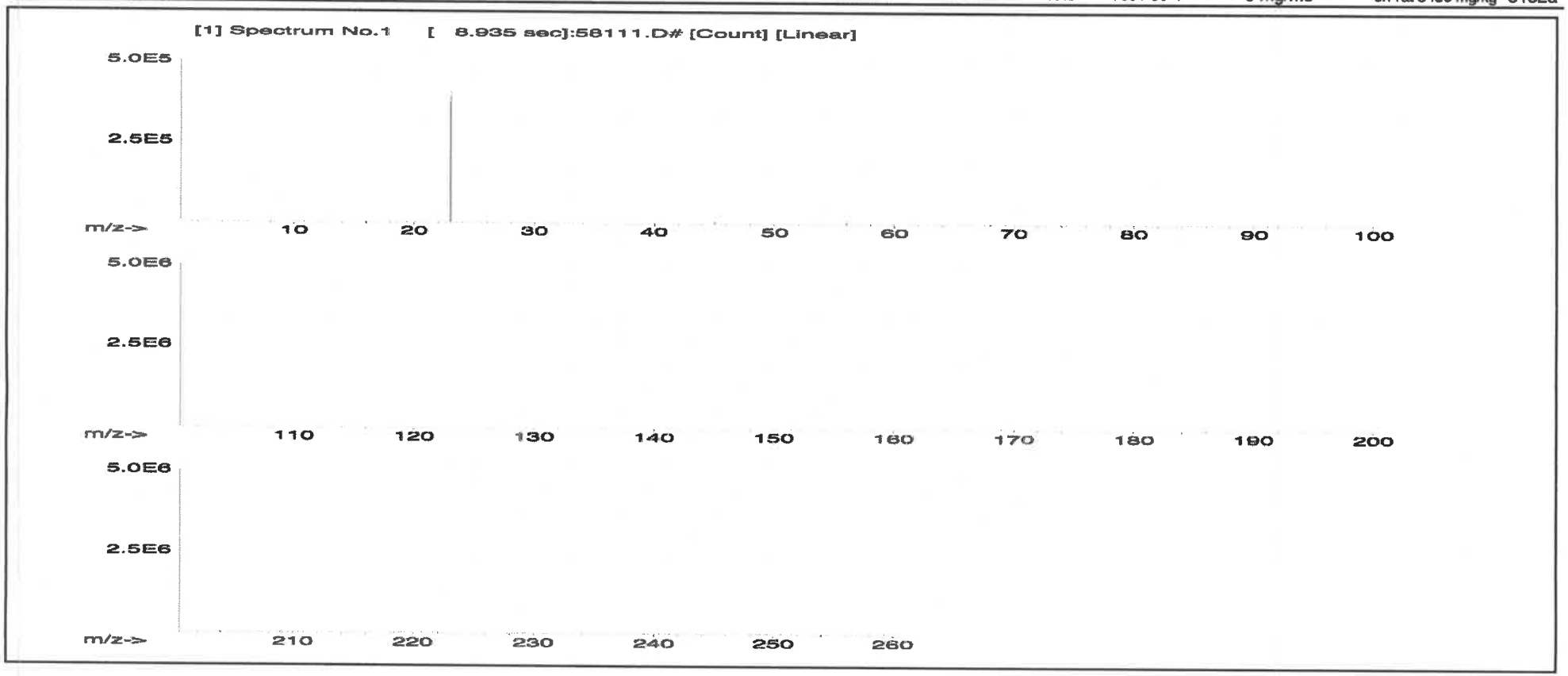
CERTIFIED WEIGHT REPORT:

R->1/13/25

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		MG144 2%	80.0 (mL)	Nitric Acid	
Expiration Date:	072427				
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):	4000.2	0.10	Flask Uncertainty		

Formulated By:	Benson Chan 072424
Reviewed By:	Pedro L. Rentas 072424

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	148.7096	######	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



315

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	Sc	<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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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R: 01/03/24 M5806, M5807

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316

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 122223
Description: Sodium (Na)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

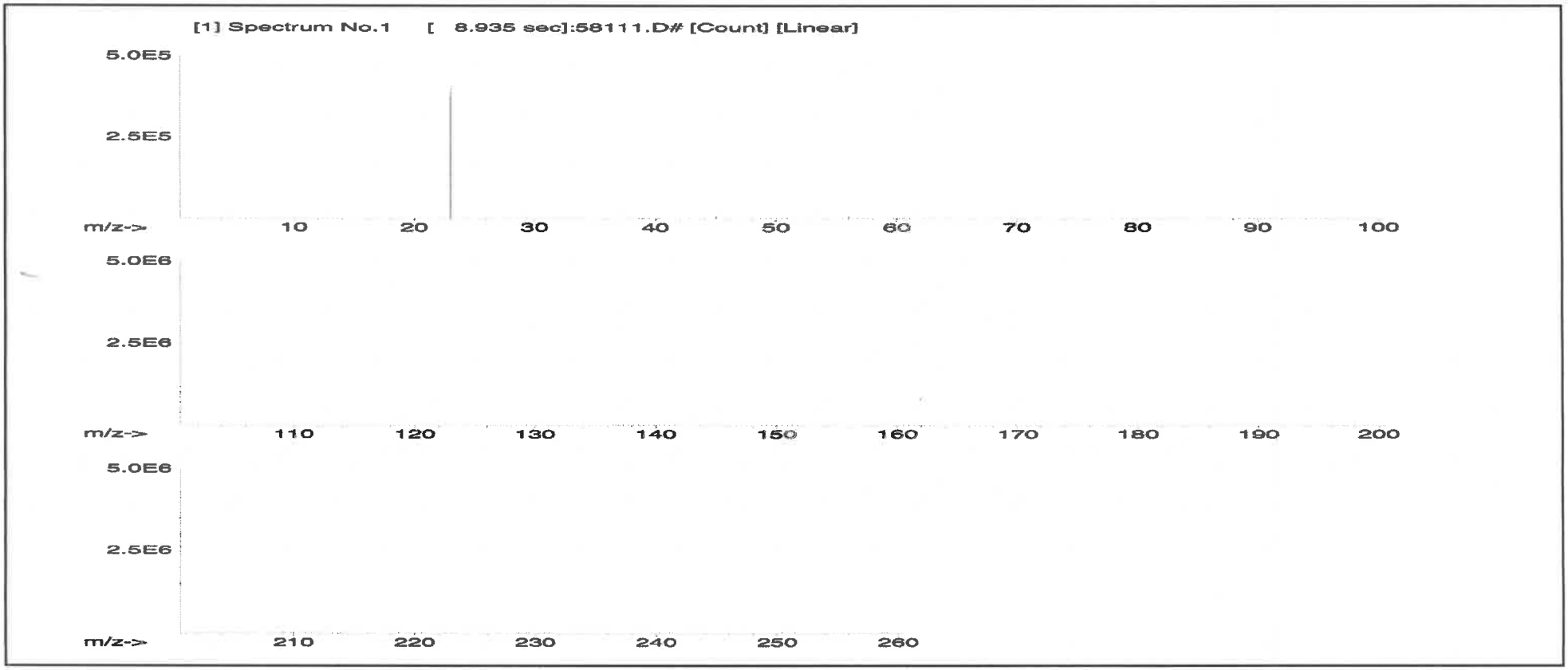
Weight shown below was diluted to (mL): 3000.4 | 0.06 Flask Uncertainty

	Lot #	
Solvent:	24002546	Nitric Acid
2%	60.0 (mL)	Nitric Acid
	5E-05	Balance Uncertainty

Aleah O'Brady
Formulated By: Aleah O'Brady 122223

Pedro Rentas
Reviewed By: Pedro L. Rentas 122223

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



317

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:

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R: 01/03/24 M5802, M5803

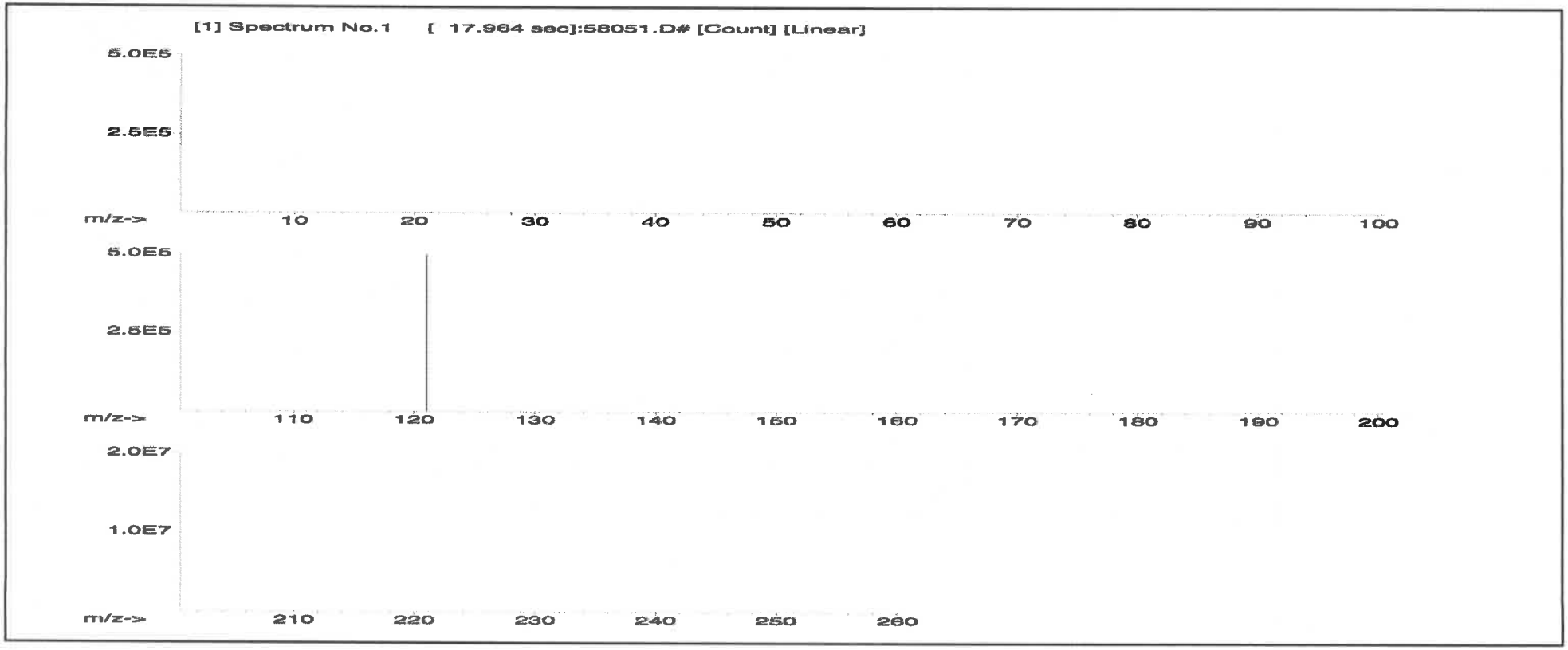
318

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



319

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).

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Certified Reference Material CRM

M6030

R: 8/5/24

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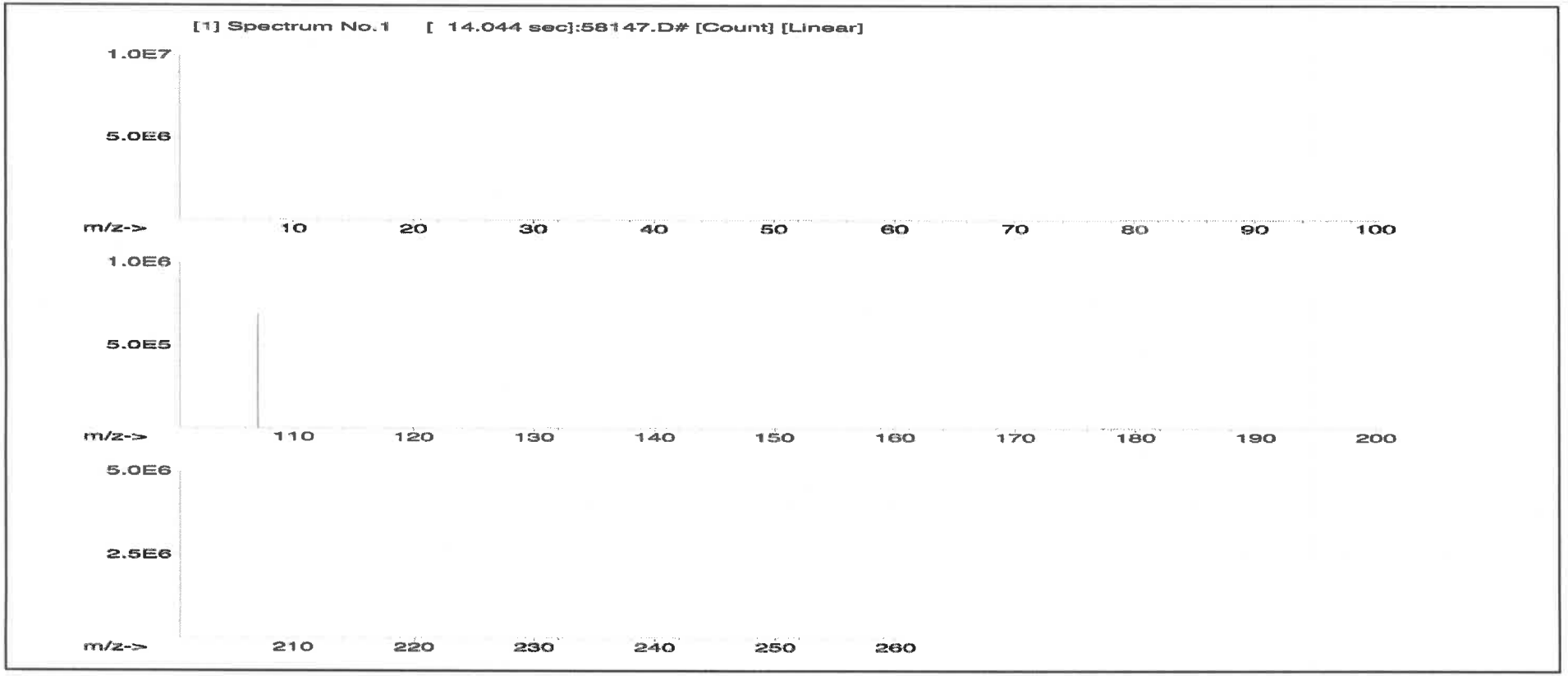
CERTIFIED WEIGHT REPORT:

Part Number:	**57047**			**Lot #**	
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
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):	4000.30	0.058	Flask Uncertainty		

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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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 888.01 ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 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 Traceable to 3153a Lot Number: K2-SR650985
Assay Method #2	**1001 ± 3 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**1001 ± 2 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- 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

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	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

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**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute 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 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

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 03, 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

- **March 03, 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

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R: 03/16/23 M5473, M5474, M5475, M5476

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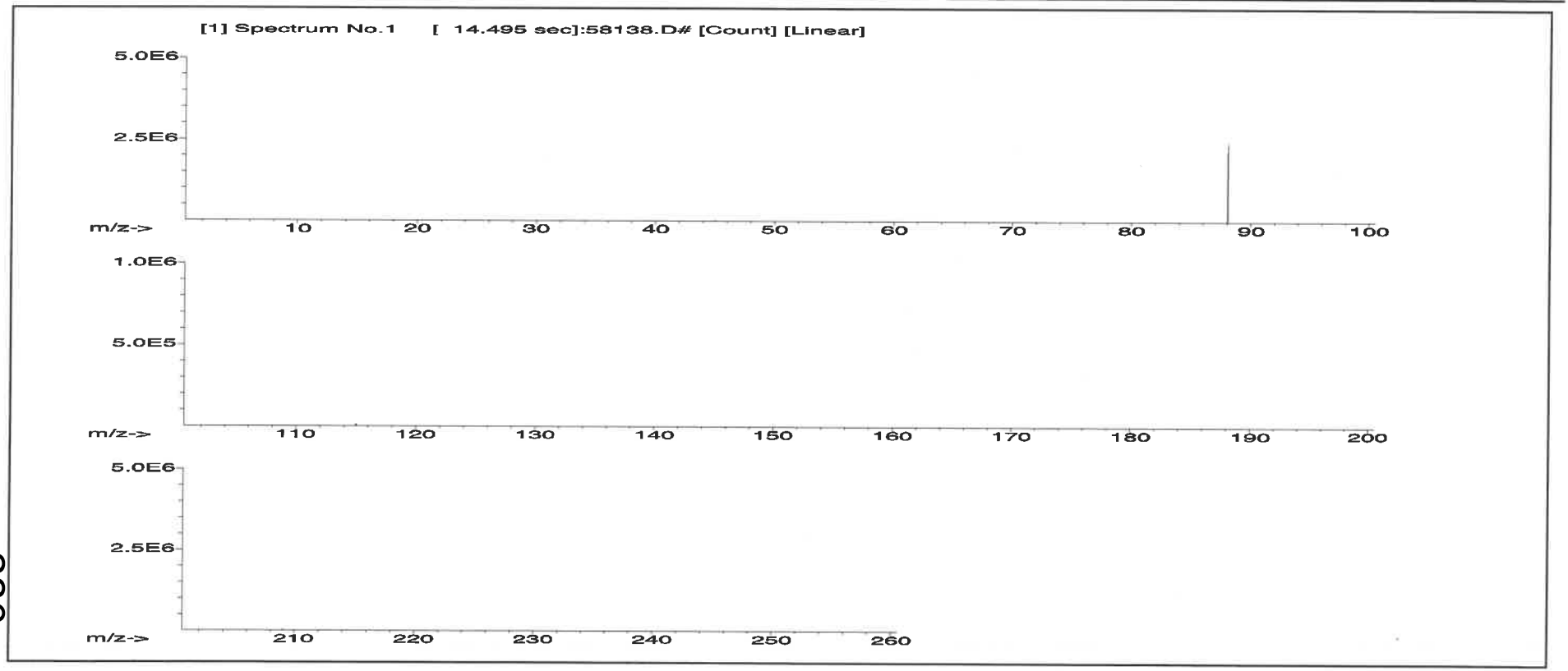
CERTIFIED WEIGHT REPORT:

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



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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.
* 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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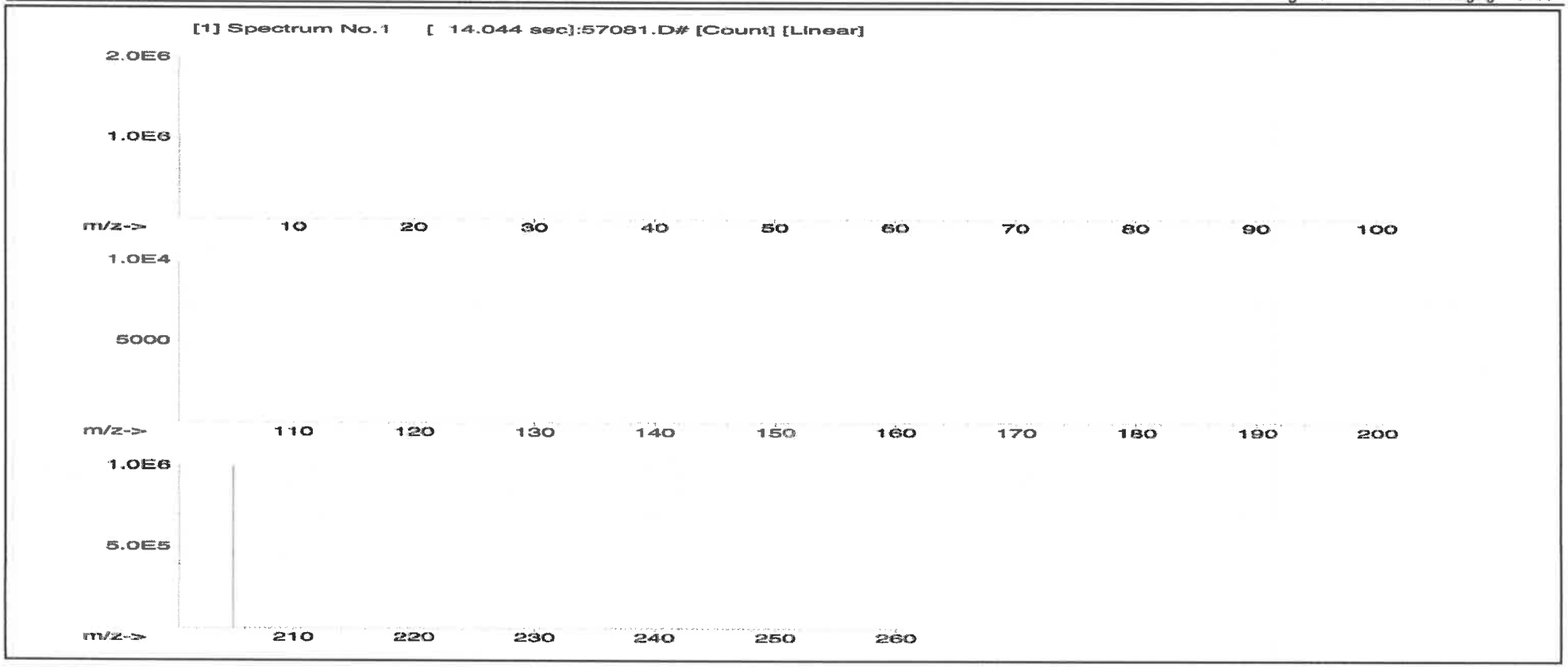
CERTIFIED WEIGHT REPORT:

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



329

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.
* 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

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

330

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**			
Description:	**Vanadium (V)**	24002546	Nitric Acid	
		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	

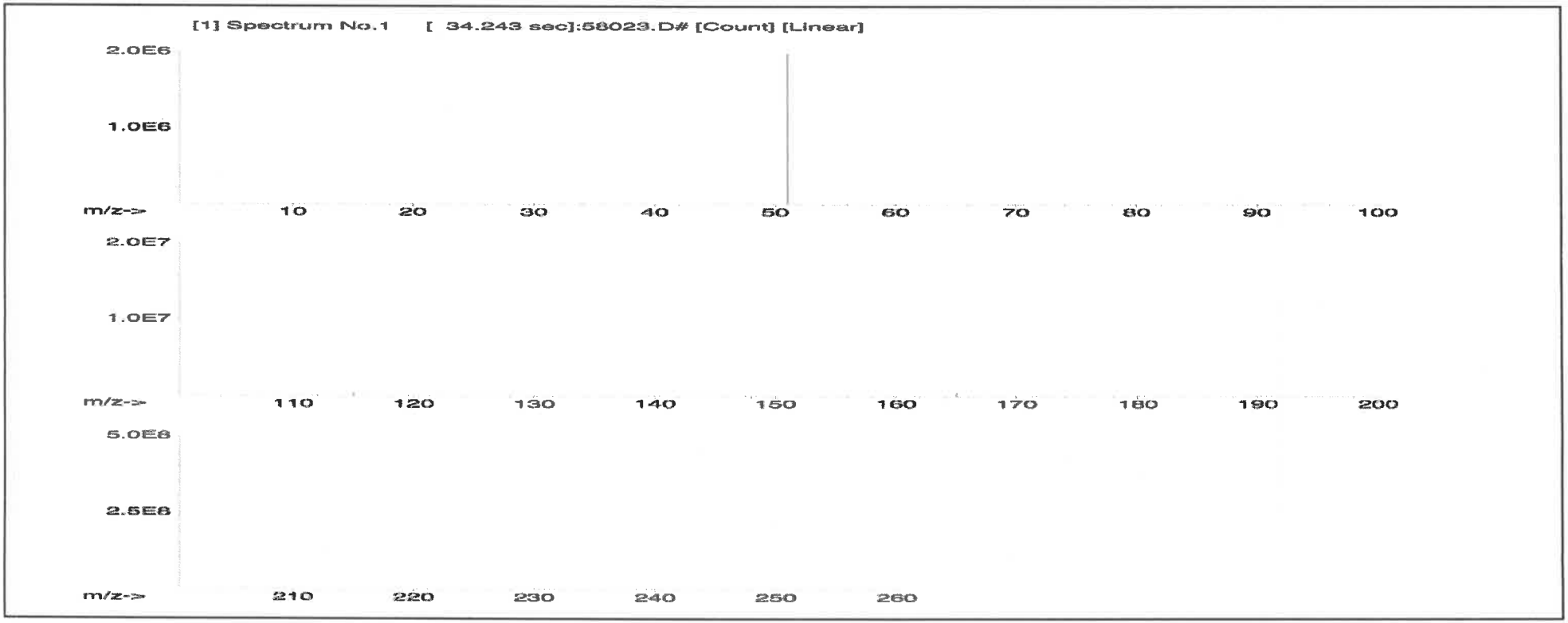
Aleah O'Brady

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



331

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

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).

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166385

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : A6301

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: 01/30/2025 **Time :** 13:30 **Temp :** 96 °C

End Digest Date: 01/30/2025 **Time :** 15:35 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SLS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP84063
Spike Sol 6	1.00	MP84070
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	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
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 #35 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/30/25 16:35	SLS. metals.	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166385

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166385BL	PBS385	N/A	1.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166385BS	LCS385	N/A	1.00	100	Colorless	Colorless	Fine	N/A	MP84063	2
Q1223-01	A6301	N/A	4.86	100	Brown	Yellow	Medium	N/A	N/A	3
Q1223-02	A6302	N/A	5.09	100	Brown	Yellow	Medium	N/A	N/A	4
Q1223-03	A6303	N/A	1.31	100	Brown	Yellow	Medium	N/A	N/A	5
Q1223-04	A6304	N/A	1.16	100	Brown	Yellow	Medium	N/A	N/A	6
Q1223-05	A6305	N/A	5.15	100	Brown	Yellow	Medium	N/A	N/A	7
Q1223-06	A6305D	N/A	5.06	100	Brown	Yellow	Medium	N/A	N/A	8
Q1223-07	A6305S	N/A	5.18	100	Brown	Yellow	Medium	N/A	MP84070	9
Q1223-08	A6306	N/A	1.11	100	Brown	Yellow	Medium	N/A	N/A	10
Q1223-09	A6307	N/A	5.25	100	Brown	Yellow	Medium	N/A	N/A	11
Q1223-10	A6308	N/A	1.12	100	Brown	Yellow	Medium	N/A	N/A	12
Q1223-11	A6309	N/A	1.40	100	Brown	Yellow	Medium	N/A	N/A	13
Q1223-12	A6320	N/A	1.30	100	Brown	Yellow	Medium	N/A	N/A	14
Q1223-13	A6321	N/A	1.46	100	Brown	Yellow	Medium	N/A	N/A	15
Q1223-14	A6322	N/A	8.67	100	Brown	Yellow	Medium	N/A	N/A	16
Q1223-15	A6323	N/A	3.60	100	Brown	Yellow	Medium	N/A	N/A	17
Q1223-16	A6324	N/A	4.79	100	Brown	Yellow	Medium	N/A	N/A	18

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134523

Review By	Sarabjit Jaswal	Review On	2/3/2025 2:07:55 PM
Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84218,MP84219

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/02/25 10:59		Kareem	OK
2	S1	S01	CAL2	02/02/25 11:03		Kareem	OK
3	S2	S02	CAL3	02/02/25 11:08		Kareem	OK
4	S3	S03	CAL4	02/02/25 11:12		Kareem	OK
5	S4	S04	CAL5	02/02/25 11:15		Kareem	OK
6	S5	S05	CAL6	02/02/25 11:19		Kareem	OK
7	S6	S06	CAL7	02/02/25 11:24		Kareem	OK
8	ICV007	ICV007	ICV	02/02/25 11:52	Inst. paused for calibration review	Kareem	OK
9	ICB007	ICB007	ICB	02/02/25 11:56		Kareem	OK
10	ICSA007	ICSA007	ICSA	02/02/25 12:00		Kareem	OK
11	ICSAB007	ICSAB007	ICSAB	02/02/25 12:05		Kareem	OK
12	CCV033	CCV033	CCV	02/02/25 12:08		Kareem	OK
13	CCB033	CCB033	CCB	02/02/25 12:13		Kareem	OK
14	PB166472BL	PBS472	MB	02/02/25 12:17		Kareem	OK
15	PB166472BS	LCS472	LCS	02/02/25 12:21		Kareem	OK
16	PB166385BL	PBS385	MB	02/02/25 12:26		Kareem	OK
17	PB166385BS	LCS385	LCS	02/02/25 12:30		Kareem	OK
18	Q1223-05	A6305	SAM	02/02/25 12:34		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134523

Review By	Sarabjit Jaswal	Review On	2/3/2025 2:07:55 PM
Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84218,MP84219

19	Q1223-06	A6305D	DUP	02/02/25 12:38		Kareem	OK
20	Q1223-05L	A6305L	SD	02/02/25 12:42		Kareem	OK
21	Q1223-07	A6305S	MS	02/02/25 12:46		Kareem	OK
22	Q1246-09	A6342	SAM	02/02/25 12:50		Kareem	OK
23	Q1246-10	A6342D	DUP	02/02/25 12:53		Kareem	OK
24	Q1246-09L	A6342L	SD	02/02/25 12:57		Kareem	OK
25	Q1246-11	A6342S	MS	02/02/25 13:02		Kareem	OK
26	Q1223-01	A6301	SAM	02/02/25 13:05		Kareem	OK
27	Q1223-02	A6302	SAM	02/02/25 13:09		Kareem	OK
28	Q1223-03	A6303	SAM	02/02/25 13:13		Kareem	OK
29	Q1223-04	A6304	SAM	02/02/25 13:17		Kareem	OK
30	Q1223-08	A6306	SAM	02/02/25 13:21		Kareem	OK
31	Q1223-09	A6307	SAM	02/02/25 13:25		Kareem	OK
32	Q1223-10	A6308	SAM	02/02/25 13:29		Kareem	OK
33	Q1223-11	A6309	SAM	02/02/25 13:33		Kareem	OK
34	CCV034	CCV034	CCV	02/02/25 13:37		Kareem	OK
35	CCB034	CCB034	CCB	02/02/25 13:42		Kareem	OK
36	Q1223-12	A6320	SAM	02/02/25 13:46		Kareem	OK
37	Q1223-13	A6321	SAM	02/02/25 13:50		Kareem	OK
38	Q1223-14	A6322	SAM	02/02/25 13:54	Fe high	Kareem	Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134523

Review By	Sarabjit Jaswal	Review On	2/3/2025 2:07:55 PM
Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:39 AM

STD. NAME	STD REF.#
ICAL Standard	MP84204,MP84212,MP84210,MP84209,MP84208,MP84207,MP84206
ICV Standard	MP84213
CCV Standard	MP84216
ICSA Standard	MP84214,MP84215
CRI Standard	
LCS Standard	MP84063
Chk Standard	MP84218,MP84219

39	Q1223-15	A6323	SAM	02/02/25 13:58		Kareem	OK
40	Q1223-16	A6324	SAM	02/02/25 14:02		Kareem	OK
41	Q1246-01	A6313	SAM	02/02/25 14:06		Kareem	OK
42	Q1246-02	A6314	SAM	02/02/25 14:10		Kareem	OK
43	Q1246-03	A6325	SAM	02/02/25 14:21		Kareem	OK
44	Q1246-04	A6326	SAM	02/02/25 14:25		Kareem	OK
45	Q1246-05	A6331	SAM	02/02/25 14:29		Kareem	OK
46	Q1246-06	A6332	SAM	02/02/25 14:33		Kareem	OK
47	Q1246-07	A6333	SAM	02/02/25 14:37		Kareem	OK
48	Q1246-08	A6334	SAM	02/02/25 14:41		Kareem	OK
49	Q1246-12	A6343	SAM	02/02/25 14:45		Kareem	OK
50	Q1246-13	A6344	SAM	02/02/25 14:49		Kareem	OK
51	Q1246-14	A6345	SAM	02/02/25 14:53		Kareem	OK
52	Q1246-15	A6346	SAM	02/02/25 14:57		Kareem	OK
53	Q1246-16	A6347	SAM	02/02/25 15:01		Kareem	OK
54	CCV035	CCV035	CCV	02/02/25 15:05		Kareem	OK
55	CCB035	CCB035	CCB	02/02/25 15:09		Kareem	OK
56	Q1223-14DL	A6322	SAM	02/02/25 15:13	2X for Fe	Kareem	Confirms
57	CCV036	CCV036	CCV	02/02/25 15:18		Kareem	OK
58	CCB036	CCB036	CCB	02/02/25 15:22		Kareem	OK

EPA SAMPLE NO.

A6301

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-01

% Solids: 26.4 Date Received: 01/30/2025

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	0.36	J*	02/02/2025	1657
7440-38-2	Arsenic	200		02/02/2025	1657
7440-39-3	Barium	43		02/02/2025	1657
7440-41-7	Beryllium	1.8		02/02/2025	1657
7440-43-9	Cadmium	0.73		02/02/2025	1657
7440-47-3	Chromium	390		02/02/2025	1657
7440-48-4	Cobalt	2.8		02/02/2025	1657
7440-50-8	Copper	1600		02/02/2025	1657
7439-92-1	Lead	60		02/02/2025	1657
7439-96-5	Manganese	170		02/02/2025	1657
7440-02-0	Nickel	110		02/02/2025	1657
7782-49-2	Selenium	0.67	J*	02/02/2025	1657
7440-22-4	Silver	5.4		02/02/2025	1657
7440-28-0	Thallium	0.13	J	02/02/2025	1657
7440-62-2	Vanadium	15		02/02/2025	1657
7440-66-6	Zinc	520	*	02/02/2025	1657

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

Comments:

EPA SAMPLE NO.

A6302

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-02

% Solids: 23.8 Date Received: 01/30/2025

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	0.47	J*	02/02/2025	1701
7440-38-2	Arsenic	21		02/02/2025	1701
7440-39-3	Barium	190		02/02/2025	1701
7440-41-7	Beryllium	1.2		02/02/2025	1701
7440-43-9	Cadmium	0.69		02/02/2025	1701
7440-47-3	Chromium	550	D	02/02/2025	1800
7440-48-4	Cobalt	150		02/02/2025	1701
7440-50-8	Copper	1200		02/02/2025	1701
7439-92-1	Lead	52		02/02/2025	1701
7439-96-5	Manganese	15000	D	02/02/2025	1804
7440-02-0	Nickel	370		02/02/2025	1701
7782-49-2	Selenium	0.71	J*	02/02/2025	1701
7440-22-4	Silver	1.6		02/02/2025	1701
7440-28-0	Thallium	0.36	J	02/02/2025	1701
7440-62-2	Vanadium	13		02/02/2025	1701
7440-66-6	Zinc	110	*	02/02/2025	1701

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

Comments:

EPA SAMPLE NO.

A6303

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-03

% Solids: 52.2 Date Received: 01/30/2025

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	0.17	J*	02/02/2025	1704
7440-38-2	Arsenic	34		02/02/2025	1704
7440-39-3	Barium	22		02/02/2025	1704
7440-41-7	Beryllium	0.31	J	02/02/2025	1704
7440-43-9	Cadmium	0.81	U	02/02/2025	1704
7440-47-3	Chromium	140		02/02/2025	1704
7440-48-4	Cobalt	11		02/02/2025	1704
7440-50-8	Copper	74		02/02/2025	1704
7439-92-1	Lead	38		02/02/2025	1704
7439-96-5	Manganese	420		02/02/2025	1704
7440-02-0	Nickel	23		02/02/2025	1704
7782-49-2	Selenium	4.1	U*	02/02/2025	1704
7440-22-4	Silver	0.12	J	02/02/2025	1704
7440-28-0	Thallium	0.089	J	02/02/2025	1704
7440-62-2	Vanadium	16		02/02/2025	1704
7440-66-6	Zinc	55	*	02/02/2025	1704

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

Comments:

EPA SAMPLE NO.

A6304

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-04

% Solids: 50.8 Date Received: 01/30/2025

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	0.17	J*	02/02/2025	1707
7440-38-2	Arsenic	41		02/02/2025	1707
7440-39-3	Barium	21		02/02/2025	1707
7440-41-7	Beryllium	0.28	J	02/02/2025	1707
7440-43-9	Cadmium	0.79	U	02/02/2025	1707
7440-47-3	Chromium	130		02/02/2025	1707
7440-48-4	Cobalt	9.0		02/02/2025	1707
7440-50-8	Copper	65		02/02/2025	1707
7439-92-1	Lead	33		02/02/2025	1707
7439-96-5	Manganese	360		02/02/2025	1707
7440-02-0	Nickel	22		02/02/2025	1707
7782-49-2	Selenium	3.9	U*	02/02/2025	1707
7440-22-4	Silver	0.087	J	02/02/2025	1707
7440-28-0	Thallium	0.071	J	02/02/2025	1707
7440-62-2	Vanadium	15		02/02/2025	1707
7440-66-6	Zinc	51	*	02/02/2025	1707

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

Comments:

EPA SAMPLE NO.

A6305

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-05

% Solids: 24.3 Date Received: 01/30/2025

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	0.20	J*	02/02/2025	1530
7440-38-2	Arsenic	53		02/02/2025	1530
7440-39-3	Barium	72		02/02/2025	1530
7440-41-7	Beryllium	1.4		02/02/2025	1530
7440-43-9	Cadmium	0.62		02/02/2025	1530
7440-47-3	Chromium	360	D	02/02/2025	1726
7440-48-4	Cobalt	5.5		02/02/2025	1530
7440-50-8	Copper	630		02/02/2025	1530
7439-92-1	Lead	180		02/02/2025	1530
7439-96-5	Manganese	880		02/02/2025	1530
7440-02-0	Nickel	62		02/02/2025	1530
7782-49-2	Selenium	0.53	J*	02/02/2025	1530
7440-22-4	Silver	0.90		02/02/2025	1530
7440-28-0	Thallium	0.12	J	02/02/2025	1530
7440-62-2	Vanadium	11		02/02/2025	1530
7440-66-6	Zinc	77	*	02/02/2025	1530

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

Comments:

EPA SAMPLE NO.

A6306

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-08

% Solids: 69 Date Received: 01/30/2025

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	0.43	J*	02/02/2025	1555
7440-38-2	Arsenic	22		02/02/2025	1555
7440-39-3	Barium	30		02/02/2025	1555
7440-41-7	Beryllium	0.36	J	02/02/2025	1555
7440-43-9	Cadmium	0.61	U	02/02/2025	1555
7440-47-3	Chromium	990	D	02/02/2025	1738
7440-48-4	Cobalt	3.8		02/02/2025	1555
7440-50-8	Copper	730		02/02/2025	1555
7439-92-1	Lead	230		02/02/2025	1555
7439-96-5	Manganese	130		02/02/2025	1555
7440-02-0	Nickel	20		02/02/2025	1555
7782-49-2	Selenium	0.40	J*	02/02/2025	1555
7440-22-4	Silver	2.9		02/02/2025	1555
7440-28-0	Thallium	0.092	J	02/02/2025	1555
7440-62-2	Vanadium	16		02/02/2025	1555
7440-66-6	Zinc	34	*	02/02/2025	1555

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

Comments:

EPA SAMPLE NO.

A6307

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-09

% Solids: 24.7 Date Received: 01/30/2025

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	0.40	J*	02/02/2025	1558
7440-38-2	Arsenic	30		02/02/2025	1558
7440-39-3	Barium	20		02/02/2025	1558
7440-41-7	Beryllium	0.88		02/02/2025	1558
7440-43-9	Cadmium	0.21	J	02/02/2025	1558
7440-47-3	Chromium	25		02/02/2025	1558
7440-48-4	Cobalt	15		02/02/2025	1558
7440-50-8	Copper	12		02/02/2025	1558
7439-92-1	Lead	47		02/02/2025	1558
7439-96-5	Manganese	200		02/02/2025	1558
7440-02-0	Nickel	11		02/02/2025	1558
7782-49-2	Selenium	1.3	J*	02/02/2025	1558
7440-22-4	Silver	0.19	J	02/02/2025	1558
7440-28-0	Thallium	0.072	J	02/02/2025	1558
7440-62-2	Vanadium	18		02/02/2025	1558
7440-66-6	Zinc	21	*	02/02/2025	1558

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

Comments:

EPA SAMPLE NO.

A6308

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-10

% Solids: 44.2 Date Received: 01/30/2025

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	1.6	J*	02/02/2025	1602
7440-38-2	Arsenic	65		02/02/2025	1602
7440-39-3	Barium	35		02/02/2025	1602
7440-41-7	Beryllium	0.12	J	02/02/2025	1602
7440-43-9	Cadmium	0.95	U	02/02/2025	1602
7440-47-3	Chromium	8300	D	02/02/2025	1742
7440-48-4	Cobalt	2.2		02/02/2025	1602
7440-50-8	Copper	390		02/02/2025	1602
7439-92-1	Lead	550		02/02/2025	1602
7439-96-5	Manganese	86		02/02/2025	1602
7440-02-0	Nickel	17		02/02/2025	1602
7782-49-2	Selenium	0.64	J*	02/02/2025	1602
7440-22-4	Silver	16		02/02/2025	1602
7440-28-0	Thallium	0.086	J	02/02/2025	1602
7440-62-2	Vanadium	26		02/02/2025	1602
7440-66-6	Zinc	32	*	02/02/2025	1602

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

Comments:

EPA SAMPLE NO.

A6309

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-11

% Solids: 64.9 Date Received: 01/30/2025

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	0.27	J*	02/02/2025	1605
7440-38-2	Arsenic	13		02/02/2025	1605
7440-39-3	Barium	24		02/02/2025	1605
7440-41-7	Beryllium	0.19	J	02/02/2025	1605
7440-43-9	Cadmium	0.13	J	02/02/2025	1605
7440-47-3	Chromium	19		02/02/2025	1605
7440-48-4	Cobalt	5.0		02/02/2025	1605
7440-50-8	Copper	26		02/02/2025	1605
7439-92-1	Lead	17		02/02/2025	1605
7439-96-5	Manganese	120		02/02/2025	1605
7440-02-0	Nickel	14		02/02/2025	1605
7782-49-2	Selenium	3.2	U*	02/02/2025	1605
7440-22-4	Silver	0.31	J	02/02/2025	1605
7440-28-0	Thallium	0.070	J	02/02/2025	1605
7440-62-2	Vanadium	9.1		02/02/2025	1605
7440-66-6	Zinc	74	*	02/02/2025	1605

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

Comments:

EPA SAMPLE NO.

FORM 1 - IN

A6310

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: Water Lab Sample ID: Q1223-17

% Solids: Date Received: 01/30/2025

Analytical Method: ICP_MS

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	20	U	02/06/2025	2014
7440-36-0	Antimony	2.0	U	02/06/2025	2014
7440-38-2	Arsenic	1.0	U	02/06/2025	2014
7440-39-3	Barium	10	U	02/06/2025	2014
7440-41-7	Beryllium	1.0	U	02/06/2025	2014
7440-43-9	Cadmium	1.0	U	02/06/2025	2014
7440-70-2	Calcium	500	U	02/06/2025	2014
7440-47-3	Chromium	2.0	U	02/06/2025	2014
7440-48-4	Cobalt	1.0	U	02/06/2025	2014
7440-50-8	Copper	2.0	U	02/06/2025	2014
7439-89-6	Iron	200	U	02/06/2025	2014
7439-92-1	Lead	1.0	U	02/06/2025	2014
7439-95-4	Magnesium	500	U	02/06/2025	2014
7439-96-5	Manganese	1.8		02/06/2025	2014
7440-02-0	Nickel	0.28	J	02/06/2025	2014
7440-09-7	Potassium	500	U	02/06/2025	2014
7782-49-2	Selenium	5.0	U	02/06/2025	2014
7440-22-4	Silver	1.0	U	02/06/2025	2014
7440-23-5	Sodium	500	U	02/06/2025	2014
7440-28-0	Thallium	1.0	U	02/06/2025	2014
7440-62-2	Vanadium	5.0	U	02/06/2025	2014
7440-66-6	Zinc	5.0	U	02/06/2025	2014

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

Comments:

EPA SAMPLE NO.

A6320

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-12

% Solids: 84 Date Received: 01/30/2025

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	1.0	U*	02/02/2025	1608
7440-38-2	Arsenic	2.4		02/02/2025	1608
7440-39-3	Barium	20		02/02/2025	1608
7440-41-7	Beryllium	0.32	J	02/02/2025	1608
7440-43-9	Cadmium	0.52	U	02/02/2025	1608
7440-47-3	Chromium	14		02/02/2025	1608
7440-48-4	Cobalt	3.1		02/02/2025	1608
7440-50-8	Copper	5.4		02/02/2025	1608
7439-92-1	Lead	3.8		02/02/2025	1608
7439-96-5	Manganese	43		02/02/2025	1608
7440-02-0	Nickel	9.5		02/02/2025	1608
7782-49-2	Selenium	2.6	U*	02/02/2025	1608
7440-22-4	Silver	0.52	U	02/02/2025	1608
7440-28-0	Thallium	0.057	J	02/02/2025	1608
7440-62-2	Vanadium	9.0		02/02/2025	1608
7440-66-6	Zinc	17	*	02/02/2025	1608

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

Comments:

EPA SAMPLE NO.

A6321

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-13

% Solids: 47.9 Date Received: 01/30/2025

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	0.18	J*	02/02/2025	1611
7440-38-2	Arsenic	36		02/02/2025	1611
7440-39-3	Barium	79		02/02/2025	1611
7440-41-7	Beryllium	0.65	J	02/02/2025	1611
7440-43-9	Cadmium	0.85	U	02/02/2025	1611
7440-47-3	Chromium	2800	D	02/02/2025	1745
7440-48-4	Cobalt	6.4		02/02/2025	1611
7440-50-8	Copper	1900		02/02/2025	1611
7439-92-1	Lead	120		02/02/2025	1611
7439-96-5	Manganese	220		02/02/2025	1611
7440-02-0	Nickel	56		02/02/2025	1611
7782-49-2	Selenium	0.78	J*	02/02/2025	1611
7440-22-4	Silver	2.5		02/02/2025	1611
7440-28-0	Thallium	0.17	J	02/02/2025	1611
7440-62-2	Vanadium	23		02/02/2025	1611
7440-66-6	Zinc	63	*	02/02/2025	1611

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

Comments:

EPA SAMPLE NO.

A6322

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-14

% Solids: 12.9 Date Received: 01/30/2025

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	0.40	J*	02/02/2025	1614
7440-38-2	Arsenic	120		02/02/2025	1614
7440-39-3	Barium	110		02/02/2025	1614
7440-41-7	Beryllium	1.1		02/02/2025	1614
7440-43-9	Cadmium	1.1		02/02/2025	1614
7440-47-3	Chromium	1200	D	02/02/2025	1748
7440-48-4	Cobalt	15		02/02/2025	1614
7440-50-8	Copper	660		02/02/2025	1614
7439-92-1	Lead	93		02/02/2025	1614
7439-96-5	Manganese	890		02/02/2025	1614
7440-02-0	Nickel	55		02/02/2025	1614
7782-49-2	Selenium	0.78	J*	02/02/2025	1614
7440-22-4	Silver	1.3		02/02/2025	1614
7440-28-0	Thallium	0.19	J	02/02/2025	1614
7440-62-2	Vanadium	31		02/02/2025	1614
7440-66-6	Zinc	210	*	02/02/2025	1614

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

Comments:

EPA SAMPLE NO.

A6323

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-15

% Solids: 28.3 Date Received: 01/30/2025

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	0.11	J*	02/02/2025	1617
7440-38-2	Arsenic	5.8		02/02/2025	1617
7440-39-3	Barium	27		02/02/2025	1617
7440-41-7	Beryllium	0.27	J	02/02/2025	1617
7440-43-9	Cadmium	0.088	J	02/02/2025	1617
7440-47-3	Chromium	760	D	02/02/2025	1751
7440-48-4	Cobalt	2.5		02/02/2025	1617
7440-50-8	Copper	1300		02/02/2025	1617
7439-92-1	Lead	88		02/02/2025	1617
7439-96-5	Manganese	58		02/02/2025	1617
7440-02-0	Nickel	92		02/02/2025	1617
7782-49-2	Selenium	0.51	J*	02/02/2025	1617
7440-22-4	Silver	1.5		02/02/2025	1617
7440-28-0	Thallium	0.064	J	02/02/2025	1617
7440-62-2	Vanadium	7.4		02/02/2025	1617
7440-66-6	Zinc	150	*	02/02/2025	1617

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

Comments:

EPA SAMPLE NO.

A6324

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-16

% Solids: 25.5 Date Received: 01/30/2025

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	0.38	J*	02/02/2025	1620
7440-38-2	Arsenic	38		02/02/2025	1620
7440-39-3	Barium	120		02/02/2025	1620
7440-41-7	Beryllium	0.82		02/02/2025	1620
7440-43-9	Cadmium	0.54		02/02/2025	1620
7440-47-3	Chromium	24		02/02/2025	1620
7440-48-4	Cobalt	5.9		02/02/2025	1620
7440-50-8	Copper	16		02/02/2025	1620
7439-92-1	Lead	43		02/02/2025	1620
7439-96-5	Manganese	120		02/02/2025	1620
7440-02-0	Nickel	32		02/02/2025	1620
7782-49-2	Selenium	1.9	J*	02/02/2025	1620
7440-22-4	Silver	0.23	J	02/02/2025	1620
7440-28-0	Thallium	0.29	J	02/02/2025	1620
7440-62-2	Vanadium	32		02/02/2025	1620
7440-66-6	Zinc	54	*	02/02/2025	1620

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

Comments:

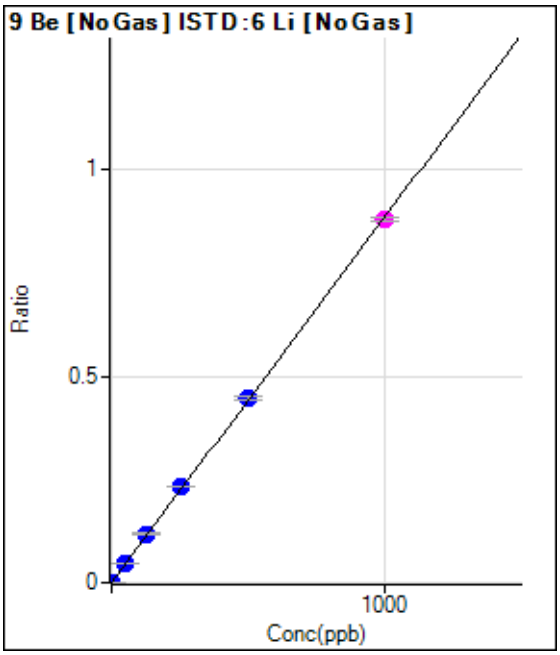
Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7020225 MS.b\
Analysis File: P7020225 MS.batch.bin
DA Date-Time: 2025-02-02 17:25:38
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-02-02 14:25:31
2	005CALS.d	S02	2025-02-02 14:28:50
3	006CALS.d	S03	2025-02-02 14:32:07
4	007CALS.d	S04	2025-02-02 14:35:10
5	008CALS.d	S05	2025-02-02 14:38:06
6	009CALS.d	S06	2025-02-02 14:40:52
7	010CALS.d	S07	2025-02-02 14:43:39
8	011CALS.d	S08	2025-02-02 14:46:23

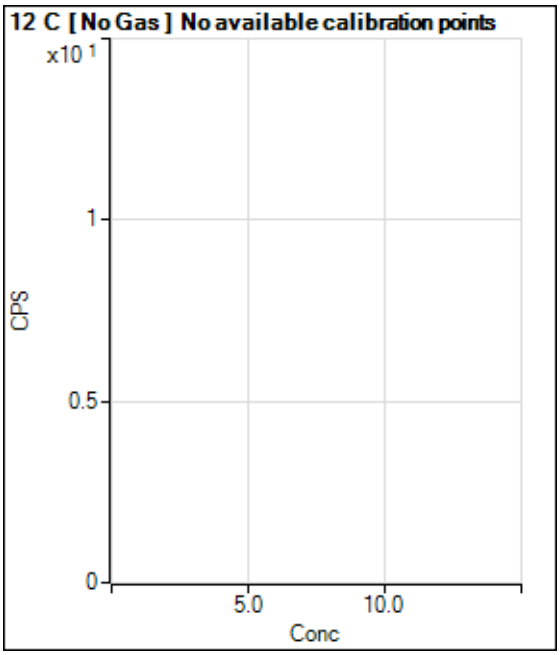
Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0001	P	26.5
2	☐	1.000	1.099	1113.38	0.0010	P	0.7
3	☐	50.000	54.304	53206.28	0.0480	P	1.1
4	☐	125.000	133.799	139065.22	0.1183	P	1.1
5	☐	250.000	261.735	273165.53	0.2313	P	0.8
6	☐	500.000	504.938	534355.31	0.4462	P	1.6
7	☐	1000.000	993.282	1038276.49	0.8776	M	1.2
8	☐			697.80	0.0006	P	19.3

y = 8.8350E-004 * x + 5.8946E-005
R = 0.9999
DL = 0.05303
BEC = 0.06672

Weight: <None>
Min Conc: 0



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

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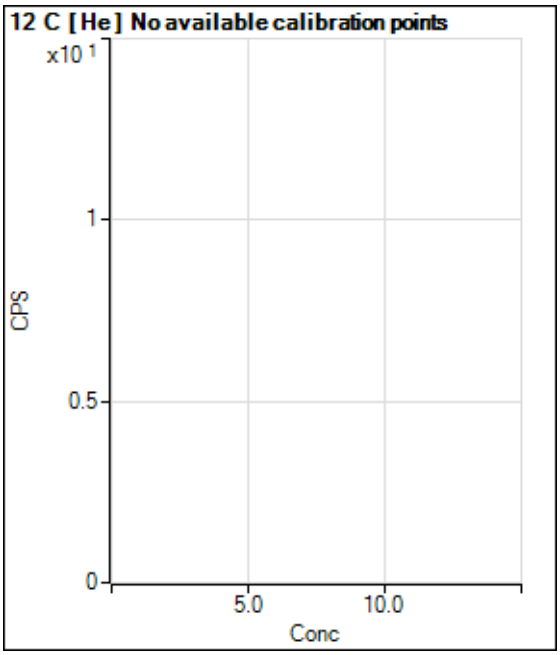

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐						
3	☐						
4	☐						
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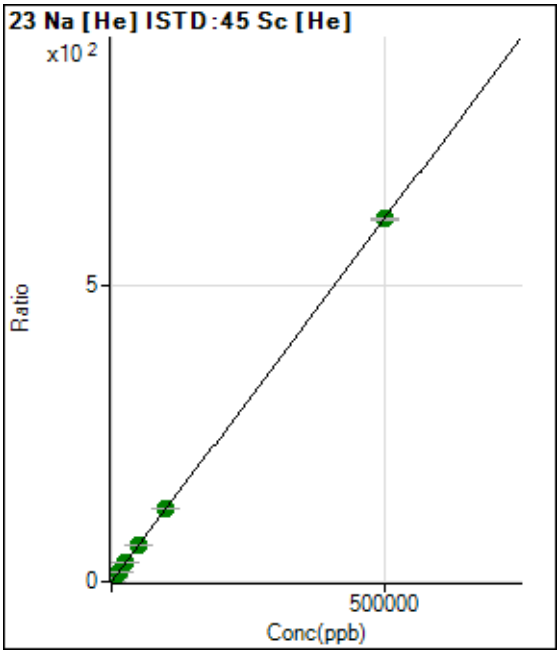
6	☐						
7	☐						
8	☐						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22326.27	0.0416	P	2.1
2	☐	500.000	494.835	349025.42	0.6461	P	0.8
3	☐	5000.000	4828.662	3150110.79	5.9397	A	0.5
4	☐	12500.000	12413.878	7885588.22	15.2047	A	1.0
5	☐	25000.000	25393.075	15038059.64	31.0583	A	1.5
6	☐	50000.000	50542.029	29511065.95	61.7768	A	0.7
7	☐	100000.00	100421.99	58940577.46	122.7032	A	0.9
8	☐	500000.00	499845.61	301202833.2	610.5839	A	0.6

y = 0.0012 * x + 0.0416
R = 1.0000
DL = 2.169
BEC = 34.09

Weight: <None>
Min Conc: 0

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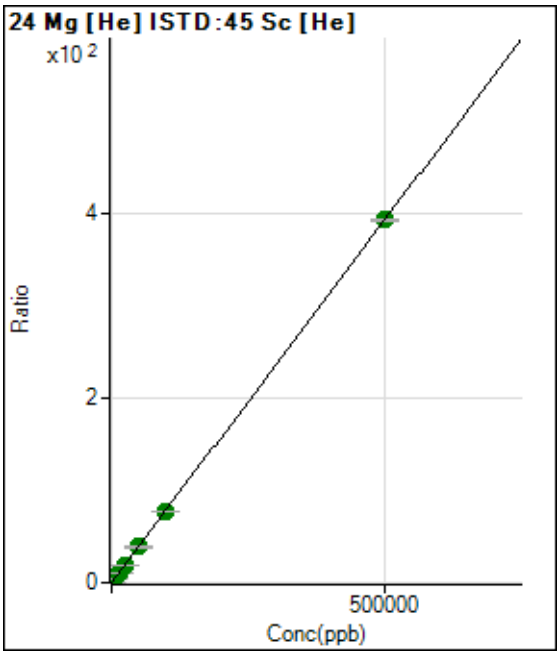
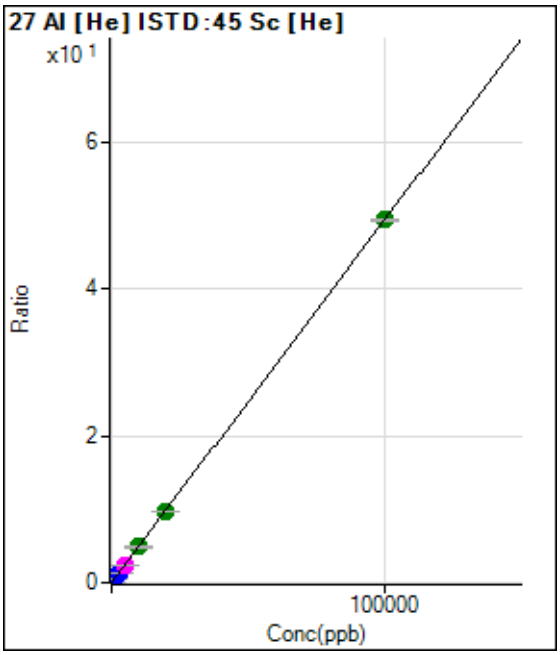


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1307.85	0.0024	P	6.3
2	☐	500.000	494.023	210667.26	0.3899	P	0.6
3	☐	5000.000	4738.193	1972354.36	3.7191	A	1.3
4	☐	12500.000	12098.798	4923125.79	9.4927	A	1.2
5	☐	25000.000	24643.509	9360745.14	19.3327	A	1.2
6	☐	50000.000	49144.450	18415919.31	38.5511	A	0.5
7	☐	100000.00	97675.901	36804220.01	76.6189	A	0.5
8	☐	500000.00	500580.85	193699852.6	392.6552	A	0.4

y = 7.8439E-004 * x + 0.0024
R = 1.0000
DL = 0.5858
BEC = 3.11

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	335.56	0.0006	P	7.8
2	☐	20.000	19.230	5462.13	0.0101	P	1.4
3	☐	1000.000	956.274	250484.69	0.4723	P	1.3
4	☐	2500.000	2433.664	622883.48	1.2010	P	1.2
5	☐	5000.000	4907.534	1172197.07	2.4213	M	2.9
6	☐	10000.000	9829.569	2316385.47	4.8490	A	0.5
7	☐	20000.000	19718.294	4672185.87	9.7266	A	0.9
8	☐	100000.00	100080.10	24351584.63	49.3648	A	0.4

y = 4.9325E-004 * x + 6.2573E-004
R = 1.0000
DL = 0.2973
BEC = 1.269

Weight: <None>
Min Conc: 0

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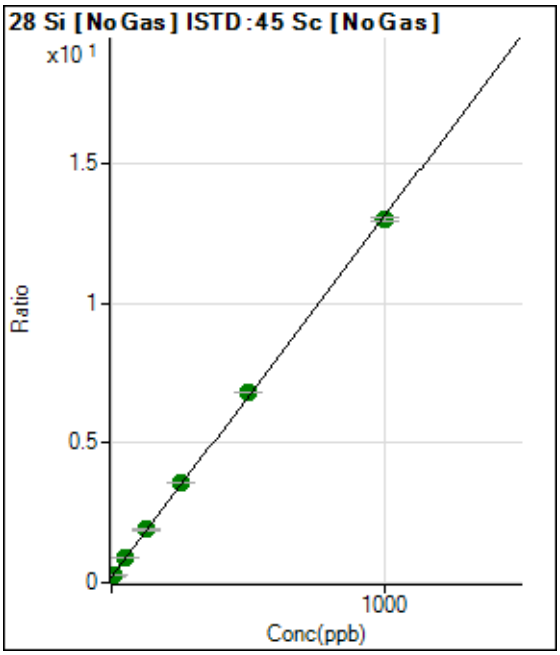
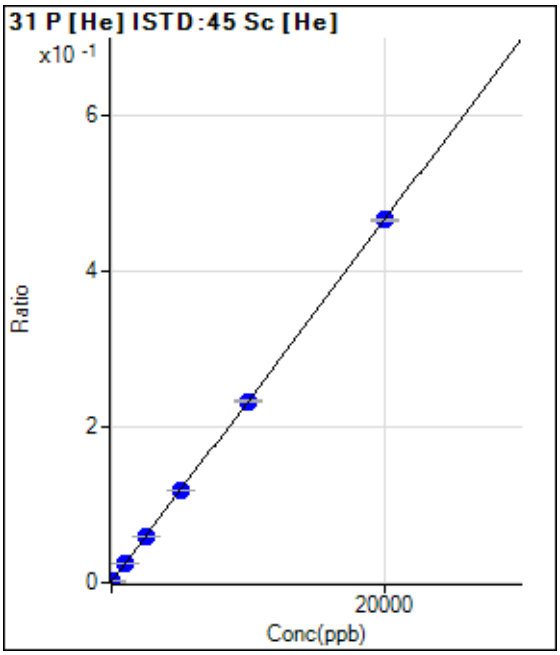


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	975196.83	0.2050	M	17.1
2	☐	10.000	3.651	1190998.19	0.2521	A	0.5
3	☐	50.000	53.383	4232514.45	0.8938	A	1.4
4	☐	125.000	131.719	8732228.69	1.9046	A	2.7
5	☐	250.000	259.857	15101667.28	3.5579	A	0.7
6	☐	500.000	512.275	27626435.70	6.8148	A	0.2
7	☐	1000.000	990.452	52495473.11	12.9845	A	0.9
8	☐			685501.15	0.1683	P	1.7

y = 0.0129 * x + 0.2050
R = 0.9998
DL = 8.148
BEC = 15.89

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-18.260	296.67	0.0006	P	7.1
2	☐	0.000	18.260	756.69	0.0014	P	4.4
3	☐	1000.000	991.843	12726.49	0.0240	P	2.4
4	☐	2500.000	2520.090	30841.11	0.0595	P	2.0
5	☐	5000.000	5052.950	57261.00	0.1183	P	1.0
6	☐	10000.000	9973.364	111045.82	0.2325	P	0.6
7	☐	20000.000	19997.977	223431.22	0.4651	P	0.2
8	☐			373.34	0.0008	P	15.7

y = 2.3210E-005 * x + 9.7702E-004
R = 1.0000
DL = 6.504
BEC = 42.09

Weight: <None>
Min Conc: 0

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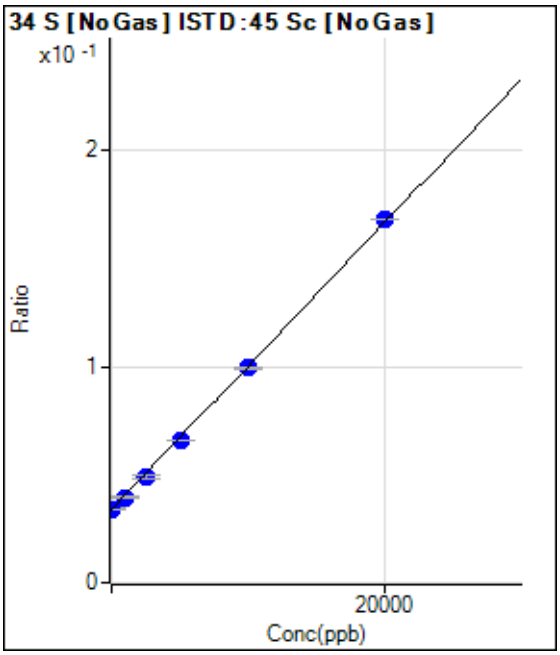
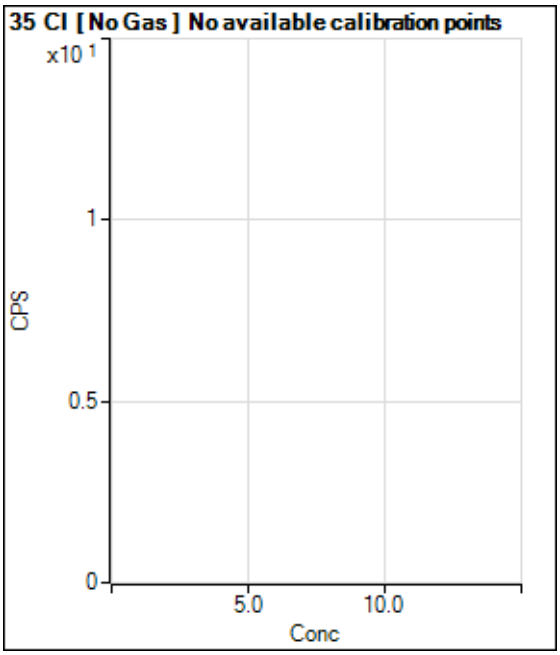


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	15.047	162126.38	0.0341	P	1.3
2	☐	0.000	-15.047	160197.21	0.0339	P	0.3
3	☐	1000.000	825.088	186992.89	0.0395	P	0.7
4	☐	2500.000	2259.201	224667.96	0.0490	P	2.2
5	☐	5000.000	4787.120	279164.14	0.0658	P	0.7
6	☐	10000.000	9828.936	402175.75	0.0992	P	0.5
7	☐	20000.000	20177.597	678592.33	0.1678	P	0.1
8	☐			124941.48	0.0307	P	3.3

y = 6.6327E-006 * x + 0.0340
R = 0.9998
DL = 123.9
BEC = 5128

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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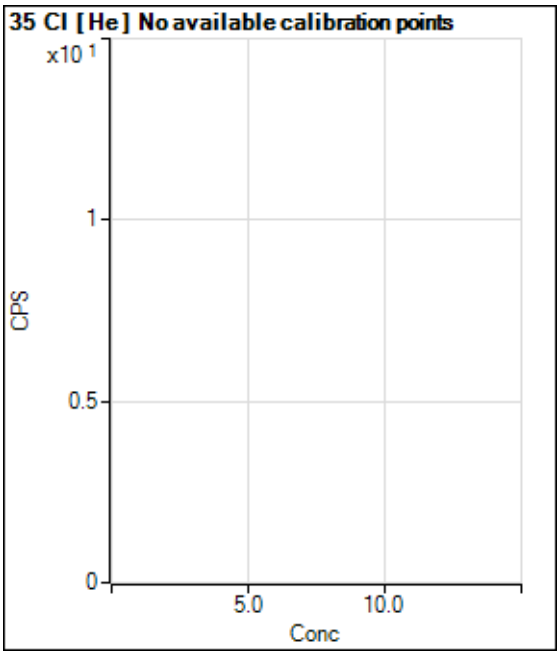

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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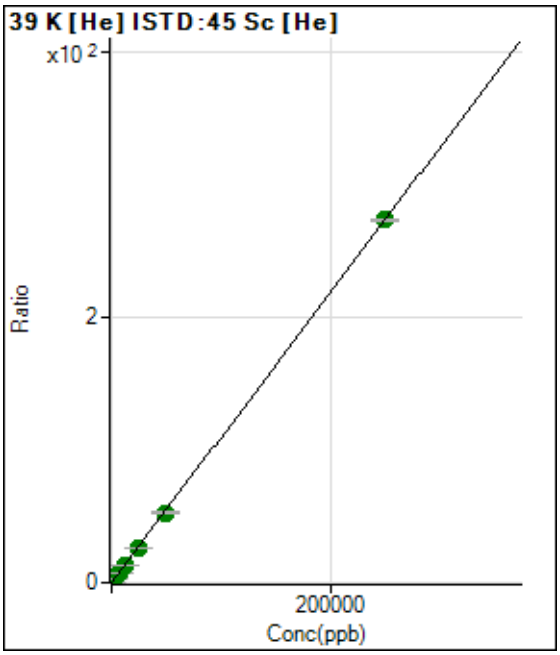
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67580.12	0.1260	P	1.9
2	☐	500.000	520.629	375271.73	0.6946	P	0.5
3	☐	2500.000	2378.434	1444515.85	2.7236	A	1.6
4	☐	6250.000	6081.801	3510218.70	6.7682	A	1.0
5	☐	12500.000	12062.292	6439841.50	13.2998	A	1.5
6	☐	25000.000	24123.003	12645649.68	26.4718	A	0.4
7	☐	50000.000	48303.236	25401308.79	52.8801	A	0.4
8	☐	250000.00	250454.31	134997872.4	273.6580	A	0.5

y = 0.0011 * x + 0.1260
R = 1.0000
DL = 6.708
BEC = 115.4

Weight: <None>
Min Conc: 0

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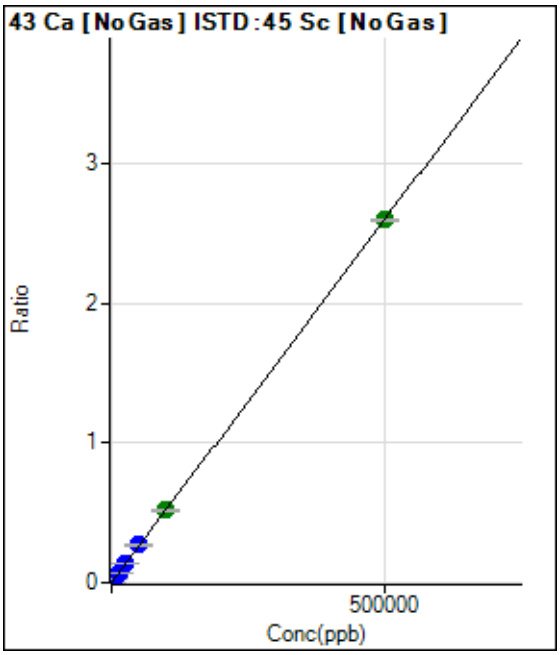
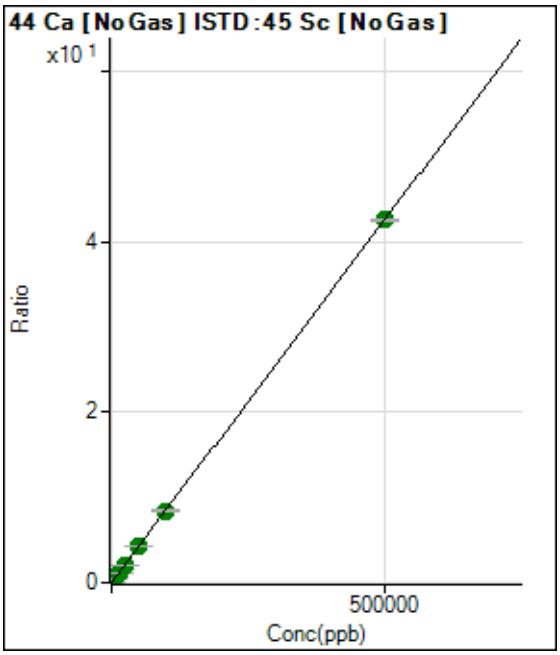


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	382.23	0.0001	P	14.7
2	☐	500.000	527.529	13308.16	0.0028	P	0.8
3	☐	5000.000	5000.225	123243.49	0.0260	P	0.7
4	☐	12500.000	12819.084	305259.54	0.0666	P	3.3
5	☐	25000.000	25846.141	569526.66	0.1342	P	0.7
6	☐	50000.000	51658.772	1086864.67	0.2681	P	0.3
7	☐	100000.00	99436.661	2086112.45	0.5160	A	0.7
8	☐	500000.00	499896.47	10565669.35	2.5937	A	0.3

y = 5.1883E-006 * x + 8.0428E-005
R = 1.0000
DL = 6.856
BEC = 15.5

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12062.08	0.0025	P	1.7
2	☐	500.000	528.381	224407.21	0.0475	P	1.1
3	☐	5000.000	4755.239	1928726.21	0.4073	A	0.1
4	☐	12500.000	12176.760	4763339.41	1.0389	A	2.5
5	☐	25000.000	24645.181	8913339.17	2.1001	A	1.2
6	☐	50000.000	49455.163	17073868.50	4.2117	A	0.3
7	☐	100000.00	99252.647	34162822.27	8.4500	A	0.4
8	☐	500000.00	500232.19	173445555.1	42.5778	A	0.4

y = 8.5111E-005 * x + 0.0025
R = 1.0000
DL = 1.558
BEC = 29.82

Weight: <None>
Min Conc: 0

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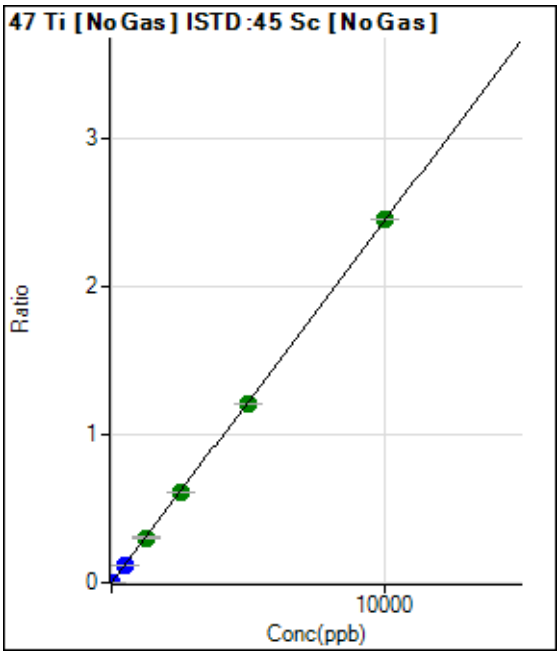
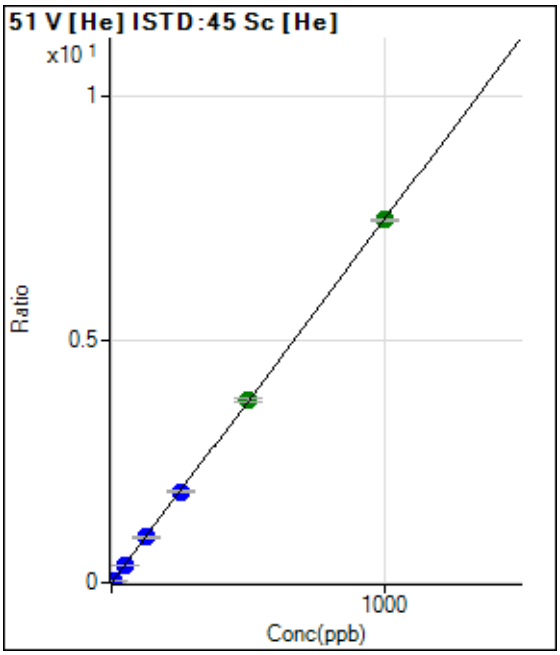


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0000	P	12.9
2	☐	5.000	5.160	6052.38	0.0013	P	2.9
3	☐	500.000	484.905	561482.12	0.1186	P	0.9
4	☐	1250.000	1237.544	1387361.61	0.3026	A	2.2
5	☐	2500.000	2487.058	2580956.19	0.6081	A	0.6
6	☐	5000.000	4944.447	4900498.64	1.2088	A	0.3
7	☐	10000.000	10033.323	9917146.52	2.4530	A	0.1
8	☐			5045.35	0.0012	P	17.5

y = 2.4448E-004 * x + 1.9639E-005
R = 1.0000
DL = 0.03108
BEC = 0.08033

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	33.7
2	☐	5.000	5.038	20361.61	0.0377	P	0.7
3	☐	50.000	49.152	194931.78	0.3676	P	1.5
4	☐	125.000	124.476	482750.62	0.9308	P	1.0
5	☐	250.000	250.742	907913.88	1.8750	P	0.6
6	☐	500.000	502.259	1794121.69	3.7558	A	1.7
7	☐	1000.000	998.793	3587659.39	7.4688	A	0.7
8	☐			1833.46	0.0037	P	7.6

y = 0.0075 * x + 1.8667E-005
R = 1.0000
DL = 0.002524
BEC = 0.002496

Weight: <None>
Min Conc: 0

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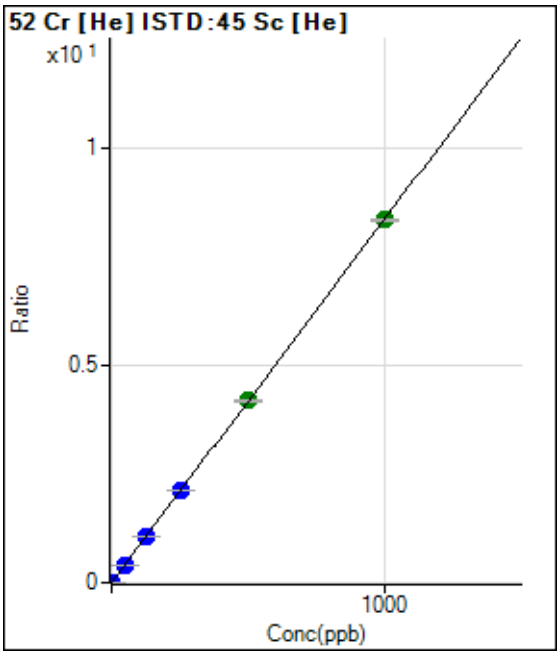
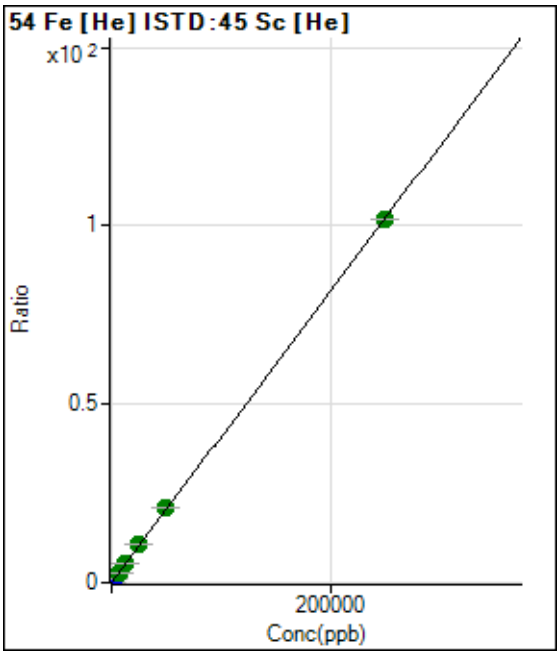


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1261.18	0.0024	P	1.7
2	☐	2.000	2.059	10567.11	0.0196	P	1.9
3	☐	50.000	49.266	219667.78	0.4142	P	0.3
4	☐	125.000	125.968	547343.54	1.0554	P	1.1
5	☐	250.000	253.780	1028399.09	2.1238	P	0.2
6	☐	500.000	501.152	2002344.94	4.1917	A	1.2
7	☐	1000.000	998.394	4010151.99	8.3483	A	0.8
8	☐			10784.84	0.0219	P	9.7

y = 0.0084 * x + 0.0024
R = 1.0000
DL = 0.01402
BEC = 0.2813

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3294.84	0.0061	P	0.5
2	☐	50.000	56.475	15753.90	0.0292	P	2.0
3	☐	2500.000	2617.556	569041.70	1.0730	P	0.5
4	☐	6250.000	6459.570	1368460.67	2.6388	A	2.9
5	☐	12500.000	13156.958	2599546.64	5.3684	A	0.6
6	☐	25000.000	26163.847	5096801.18	10.6695	A	0.5
7	☐	50000.000	51561.570	10097364.85	21.0207	A	0.8
8	☐	250000.00	249532.03	50171920.36	101.7060	A	0.1

y = 4.0756E-004 * x + 0.0061
R = 1.0000
DL = 0.2481
BEC = 15.08

Weight: <None>
Min Conc: 0

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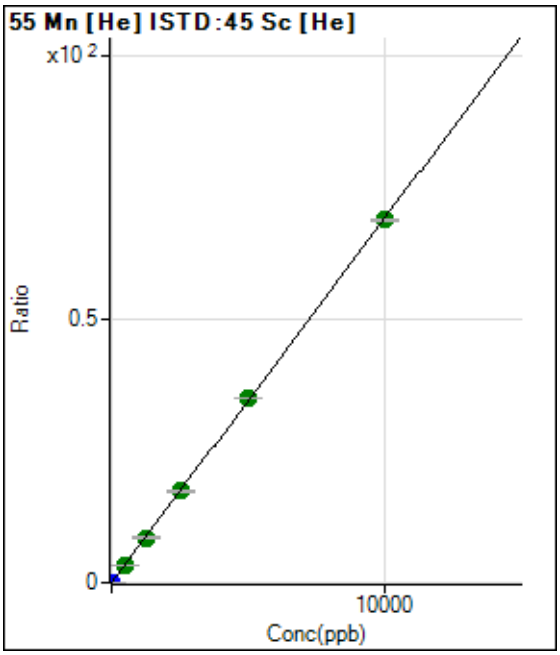
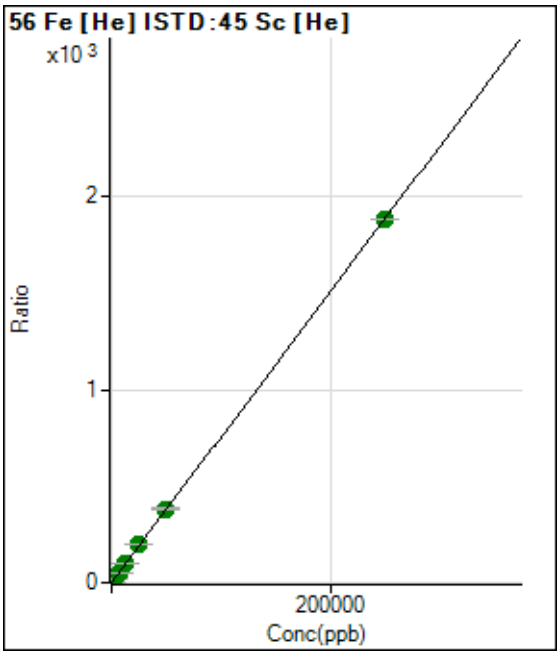


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	428.90	0.0008	P	11.9
2	☐	1.000	1.013	4219.52	0.0078	P	1.2
3	☐	500.000	483.232	1773702.61	3.3445	A	1.8
4	☐	1250.000	1237.326	4440676.22	8.5624	A	1.1
5	☐	2500.000	2520.756	8445664.67	17.4430	A	1.3
6	☐	5000.000	5068.935	16755250.31	35.0749	A	0.8
7	☐	10000.000	9962.766	33114616.73	68.9375	A	0.5
8	☐			25536.15	0.0518	P	3.0

y = 0.0069 * x + 7.9996E-004
R = 1.0000
DL = 0.04144
BEC = 0.1156

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26447.73	0.0493	P	1.6
2	☐	50.000	54.405	248133.17	0.4593	P	0.7
3	☐	2500.000	2486.902	9965203.53	18.7899	A	0.5
4	☐	6250.000	6381.441	24965858.24	48.1381	A	1.1
5	☐	12500.000	12831.367	46841895.41	96.7430	A	1.2
6	☐	25000.000	25885.017	93204370.83	195.1117	A	0.3
7	☐	50000.000	50918.994	184342281.7	383.7609	A	0.4
8	☐	250000.00	249707.97	928293132.8	1,881.780	A	0.2

y = 0.0075 * x + 0.0493
R = 1.0000
DL = 0.3072
BEC = 6.545

Weight: <None>
Min Conc: 0

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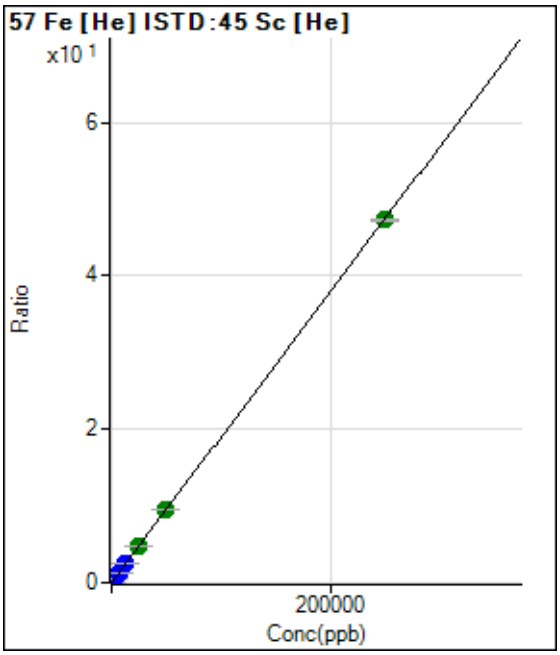
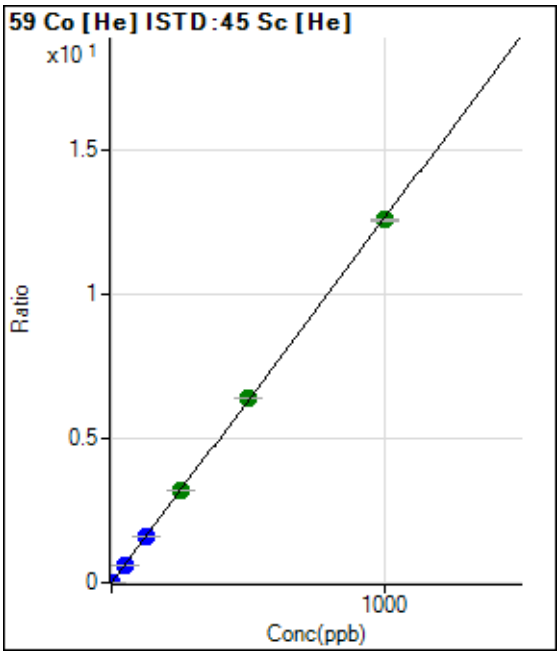


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1793.45	0.0033	P	5.5
2	☐	50.000	56.611	7597.55	0.0141	P	2.7
3	☐	2500.000	2571.189	259973.85	0.4902	P	0.5
4	☐	6250.000	6537.908	643766.41	1.2413	P	0.9
5	☐	12500.000	13212.747	1212992.02	2.5051	P	1.0
6	☐	25000.000	25563.231	2313808.56	4.8437	A	1.6
7	☐	50000.000	50572.570	4601436.91	9.5791	A	0.3
8	☐	250000.00	249785.61	23332602.43	47.2996	A	0.8

y = 1.8935E-004 * x + 0.0033
R = 1.0000
DL = 2.923
BEC = 17.66

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0003	P	8.3
2	☐	1.000	1.068	7427.47	0.0137	P	2.4
3	☐	50.000	49.408	330843.47	0.6238	P	0.3
4	☐	125.000	125.313	820375.48	1.5818	P	0.5
5	☐	250.000	252.877	1545395.72	3.1917	A	1.3
6	☐	500.000	507.910	3062220.17	6.4103	A	0.2
7	☐	1000.000	995.316	6034118.80	12.5616	A	0.5
8	☐			18167.74	0.0368	P	1.4

y = 0.0126 * x + 2.6941E-004
R = 0.9999
DL = 0.005309
BEC = 0.02135

Weight: <None>
Min Conc: 0

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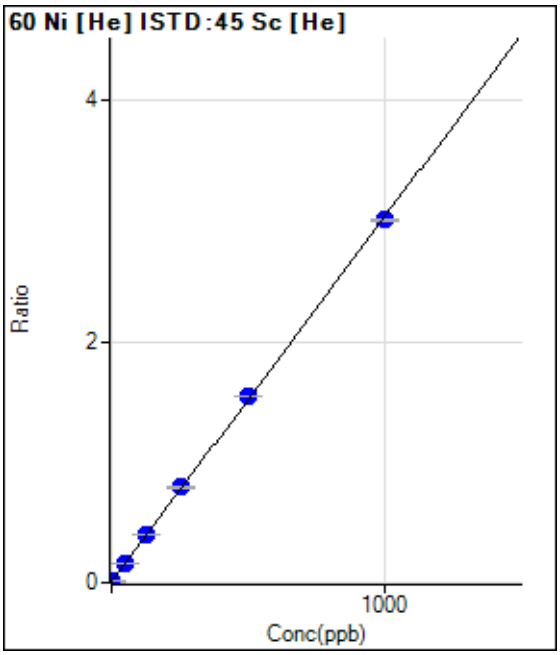
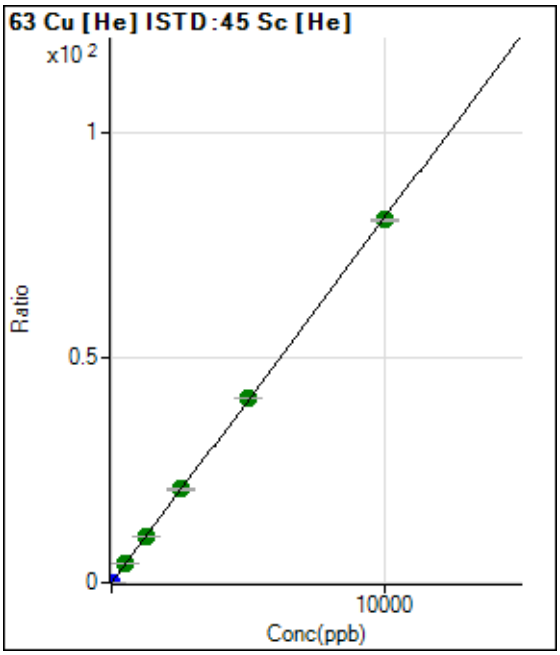


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3516.00	0.0066	P	4.8
2	☐	1.000	0.980	5145.38	0.0095	P	2.8
3	☐	50.000	51.007	85411.27	0.1610	P	0.9
4	☐	125.000	129.346	206588.38	0.3983	P	0.4
5	☐	250.000	259.643	383957.80	0.7930	P	1.0
6	☐	500.000	509.528	740358.66	1.5498	P	0.3
7	☐	1000.000	992.231	1446778.62	3.0119	P	0.2
8	☐			8861.58	0.0180	P	4.1

y = 0.0030 * x + 0.0066
R = 0.9999
DL = 0.3119
BEC = 2.165

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2693.61	0.0050	P	3.8
2	☐	2.000	2.428	13337.12	0.0247	P	2.2
3	☐	500.000	507.118	2180864.01	4.1121	A	0.5
4	☐	1250.000	1283.916	5395544.78	10.4034	A	0.8
5	☐	2500.000	2565.830	10063840.82	20.7855	A	1.6
6	☐	5000.000	5069.198	19614574.01	41.0602	A	0.5
7	☐	10000.000	9944.348	38689428.31	80.5438	A	0.9
8	☐			15131.06	0.0307	P	3.6

y = 0.0081 * x + 0.0050
R = 0.9999
DL = 0.07148
BEC = 0.6203

Weight: <None>
Min Conc: 0

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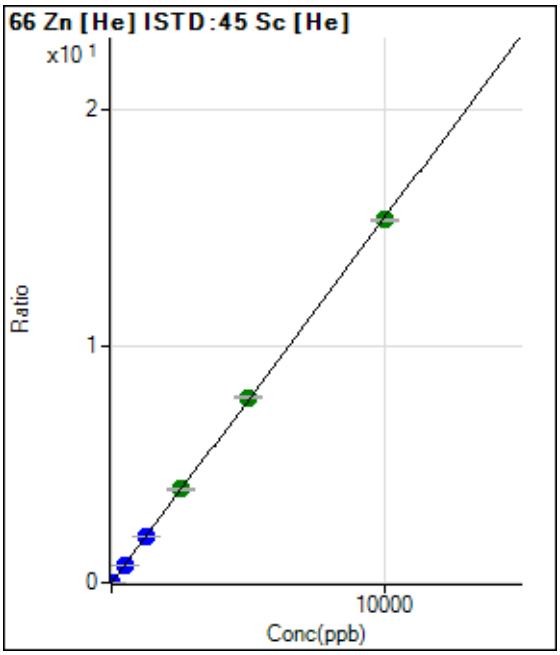
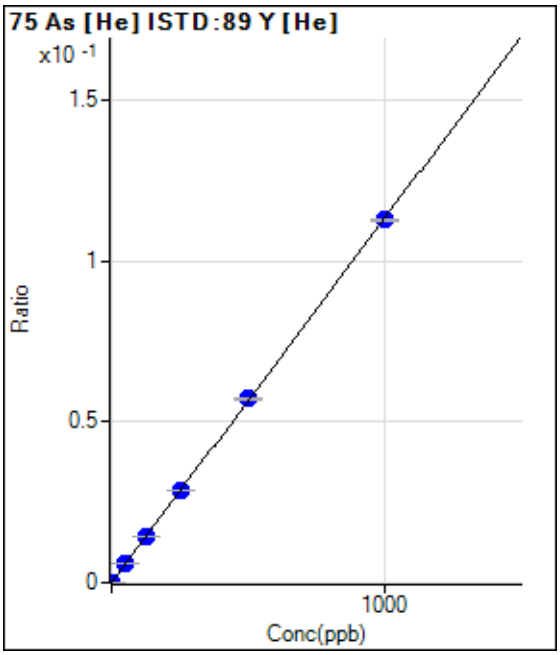


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600.02	0.0011	P	7.2
2	☐	2.000	5.221	4950.87	0.0092	P	1.6
3	☐	500.000	487.223	398771.12	0.7519	P	0.5
4	☐	1250.000	1247.836	997833.99	1.9240	P	0.8
5	☐	2500.000	2561.107	1911471.43	3.9476	A	1.0
6	☐	5000.000	5080.586	3740396.09	7.8300	A	0.3
7	☐	10000.000	9945.339	7362044.54	15.3264	A	0.8
8	☐			5108.70	0.0104	P	2.0

y = 0.0015 * x + 0.0011
R = 0.9999
DL = 0.1568
BEC = 0.726

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	53.6
2	☐	1.000	1.153	703.36	0.0001	P	4.5
3	☐	50.000	50.630	29882.30	0.0057	P	1.1
4	☐	125.000	127.982	73738.48	0.0145	P	1.3
5	☐	250.000	252.402	139396.22	0.0286	P	0.6
6	☐	500.000	505.403	275170.79	0.0573	P	0.5
7	☐	1000.000	996.294	549232.57	0.1129	P	0.4
8	☐			458.90	0.0001	P	12.7

y = 1.1334E-004 * x + 2.7667E-006
R = 1.0000
DL = 0.03929
BEC = 0.02441

Weight: <None>
Min Conc: 0

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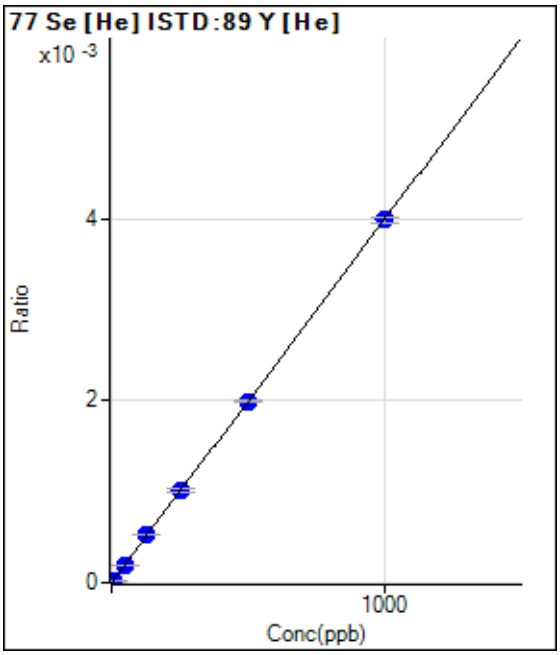
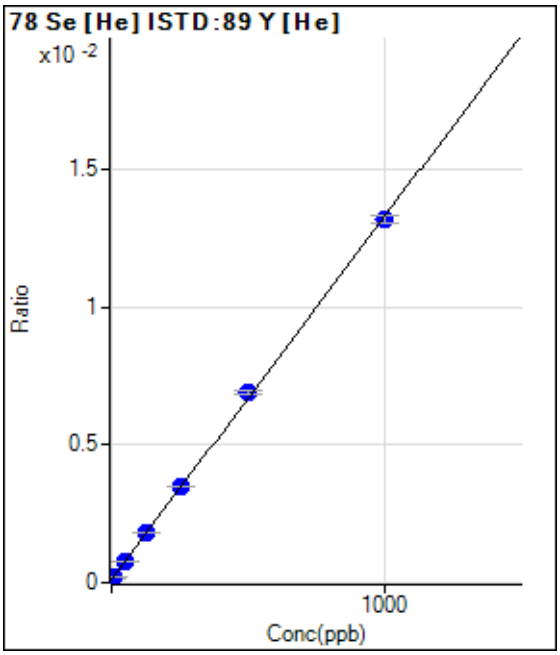


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.753	101.11	0.0000	P	29.0
3	☐	50.000	48.801	1013.38	0.0002	P	4.4
4	☐	125.000	131.729	2670.27	0.0005	P	1.7
5	☐	250.000	252.095	4897.52	0.0010	P	4.6
6	☐	500.000	499.294	9560.95	0.0020	P	1.2
7	☐	1000.000	999.049	19369.43	0.0040	P	1.7
8	☐			5.55	0.0000	P	69.9

y = 3.9861E-006 * x + 2.1491E-007
R = 1.0000
DL = 0.2802
BEC = 0.05392

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	621.13	0.0001	P	9.8
2	☐	5.000	6.156	1053.38	0.0002	P	7.9
3	☐	50.000	50.177	4052.82	0.0008	P	3.2
4	☐	125.000	128.410	9187.36	0.0018	P	1.9
5	☐	250.000	255.547	16954.26	0.0035	P	0.6
6	☐	500.000	514.028	33044.61	0.0069	P	1.8
7	☐	1000.000	991.158	63975.07	0.0132	P	2.0
8	☐			570.02	0.0001	P	14.6

y = 1.3151E-005 * x + 1.1892E-004
R = 0.9998
DL = 2.657
BEC = 9.042

Weight: <None>
Min Conc: 0

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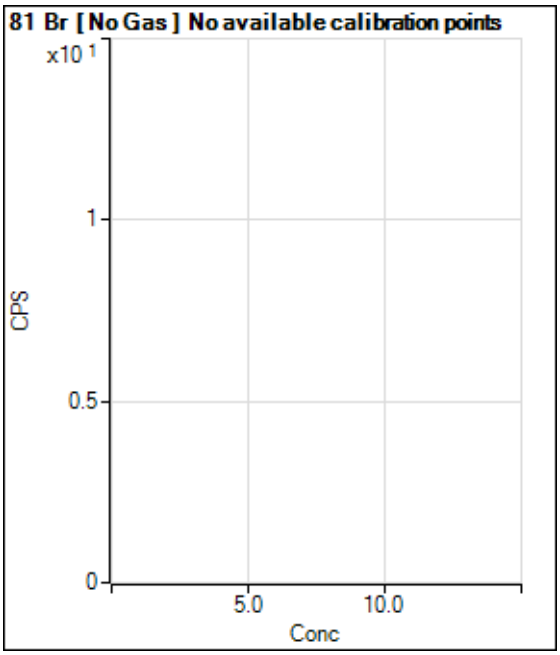
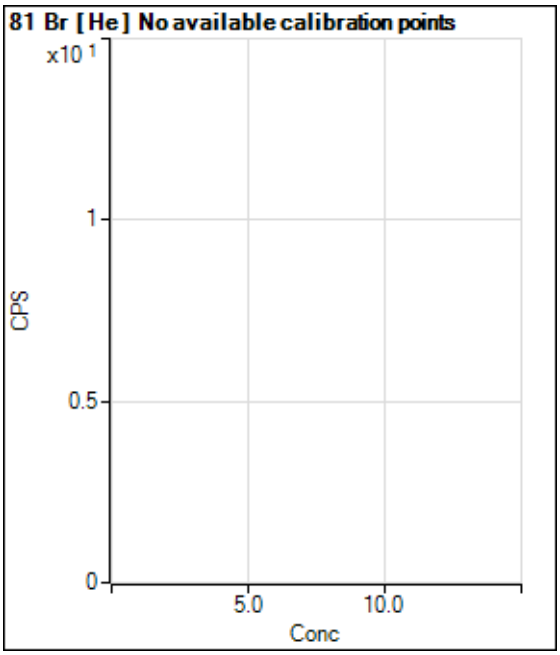


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			16123.33		P	1.2
2	☐			15764.09		P	1.5
3	☐			14914.30		P	3.0
4	☐			14232.53		P	3.0
5	☐			12895.72		P	1.9
6	☐			12502.05		P	0.8
7	☐			12795.63		P	2.9
8	☐			14292.55		P	3.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			150.00		P	17.4
2	☐			111.11		P	24.2
3	☐			121.11		P	18.7
4	☐			101.11		P	6.9
5	☐			95.56		P	10.7
6	☐			104.45		P	12.9
7	☐			101.11		P	29.7
8	☐			126.67		P	5.3

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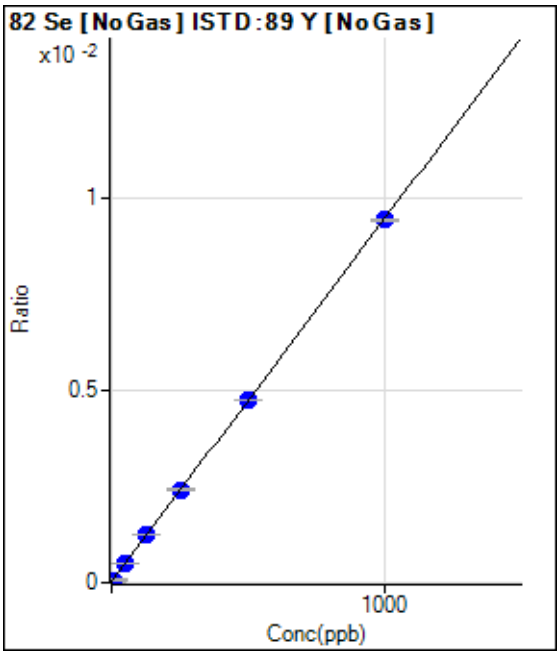
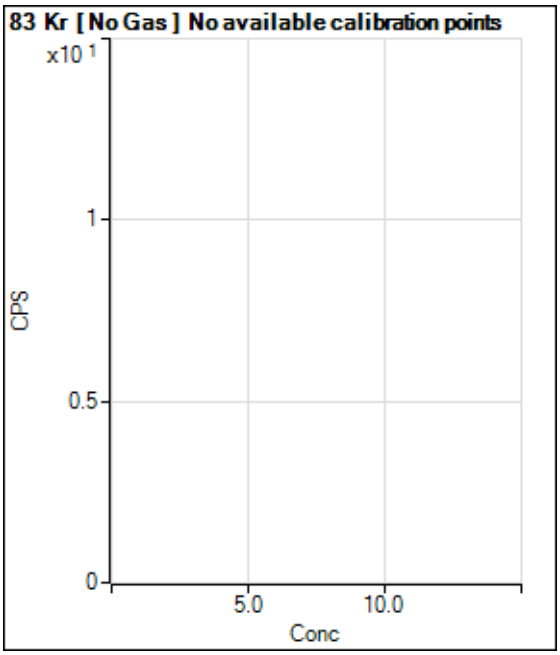


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	387.83	0.0000	P	12.6
2	☐	5.000	5.159	1161.05	0.0001	P	7.7
3	☐	50.000	50.063	7882.15	0.0005	P	1.8
4	☐	125.000	129.119	19413.35	0.0012	P	2.2
5	☐	250.000	254.309	35955.53	0.0024	P	1.1
6	☐	500.000	502.026	69066.80	0.0048	P	0.6
7	☐	1000.000	997.391	136857.94	0.0094	P	0.9
8	☐			509.48	0.0000	P	10.2

y = 9.4348E-006 * x + 2.4451E-005
R = 1.0000
DL = 0.9801
BEC = 2.592

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			231.11		P	13.9
2	☐			215.56		P	16.7
3	☐			215.56		P	14.9
4	☐			188.89		P	1.0
5	☐			201.11		P	20.7
6	☐			182.23		P	14.2
7	☐			192.23		P	18.2
8	☐			255.56		P	12.3

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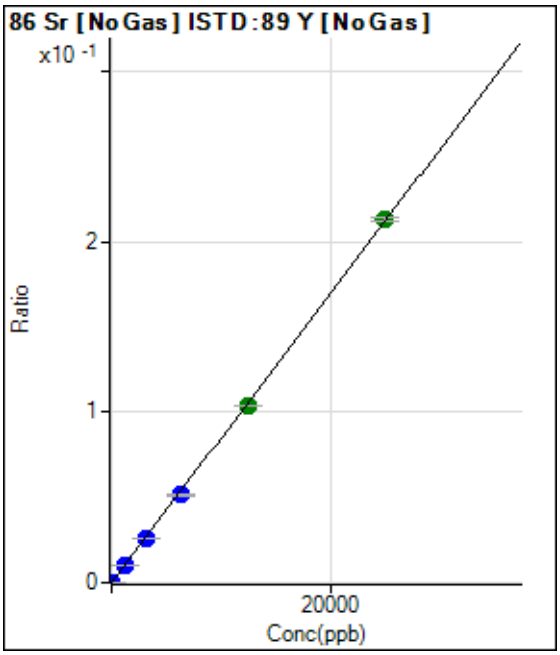
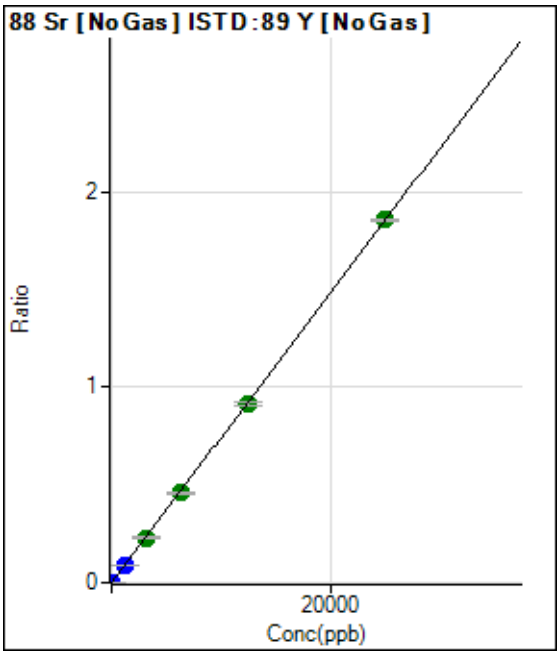


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	385.56	0.0000	P	13.3
2	☐	1.000	23.765	3578.25	0.0002	P	0.5
3	☐	1250.000	1188.074	159870.32	0.0101	P	1.1
4	☐	3125.000	3043.497	402672.13	0.0258	P	1.4
5	☐	6250.000	6100.495	765931.44	0.0516	P	1.5
6	☐	12500.000	12281.526	1507658.36	0.1039	A	0.5
7	☐	25000.000	25159.896	3088031.41	0.2129	A	1.0
8	☐			10859.62	0.0008	P	0.1

y = 8.4602E-006 * x + 2.4315E-005
R = 0.9999
DL = 1.149
BEC = 2.874

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.11	0.0000	P	5.3
2	☐	1.000	23.738	28130.25	0.0018	P	0.2
3	☐	1250.000	1189.947	1398774.60	0.0882	P	1.7
4	☐	3125.000	3100.287	3588200.40	0.2297	A	1.7
5	☐	6250.000	6213.787	6828705.45	0.4603	A	1.1
6	☐	12500.000	12358.790	13280856.89	0.9155	A	1.4
7	☐	25000.000	25085.749	26956367.38	1.8583	A	0.5
8	☐			92453.63	0.0065	P	1.6

y = 7.4076E-005 * x + 1.3304E-005
R = 1.0000
DL = 0.02857
BEC = 0.1796

Weight: <None>
Min Conc: 0

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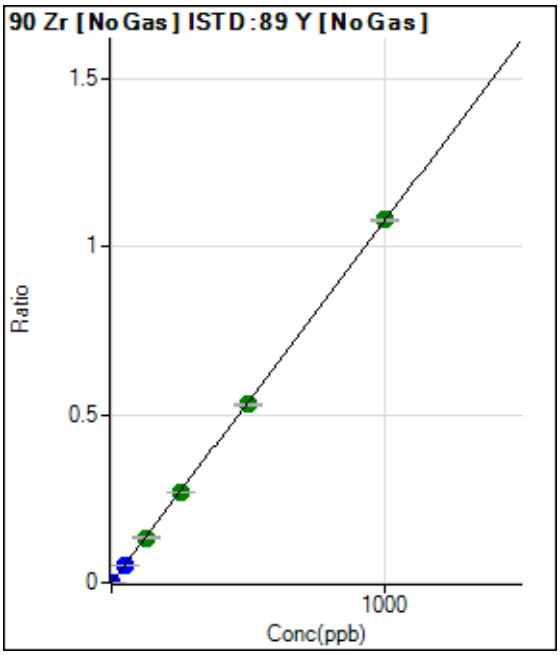
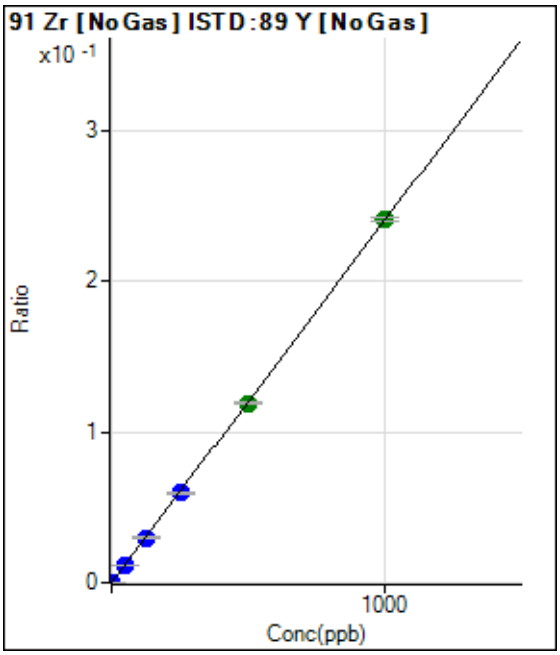


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0000	P	10.7
2	☐	1.000	0.963	16930.94	0.0011	P	1.7
3	☐	50.000	47.800	816711.83	0.0515	P	1.9
4	☐	125.000	124.621	2095861.93	0.1342	A	2.0
5	☐	250.000	249.820	3988822.13	0.2689	A	1.2
6	☐	500.000	493.389	7703665.86	0.5310	A	0.8
7	☐	1000.000	1003.508	15667376.57	1.0801	A	0.7
8	☐			33586.17	0.0024	P	4.4

y = 0.0011 * x + 3.0405E-005
R = 1.0000
DL = 0.009065
BEC = 0.02825

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.33	0.0000	P	26.1
2	☐	1.000	0.980	3837.21	0.0002	P	5.5
3	☐	50.000	47.861	182379.01	0.0115	P	1.5
4	☐	125.000	123.938	464863.54	0.0298	P	1.9
5	☐	250.000	247.328	880705.20	0.0594	P	1.5
6	☐	500.000	496.450	1728723.01	0.1192	A	1.4
7	☐	1000.000	1002.683	3491226.47	0.2407	A	1.0
8	☐			7418.60	0.0005	P	4.7

y = 2.4003E-004 * x + 6.5290E-006
R = 1.0000
DL = 0.02128
BEC = 0.0272

Weight: <None>
Min Conc: 0

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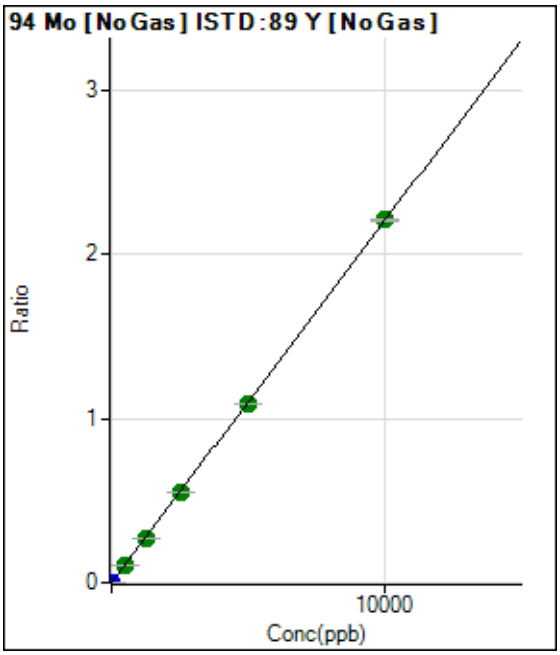
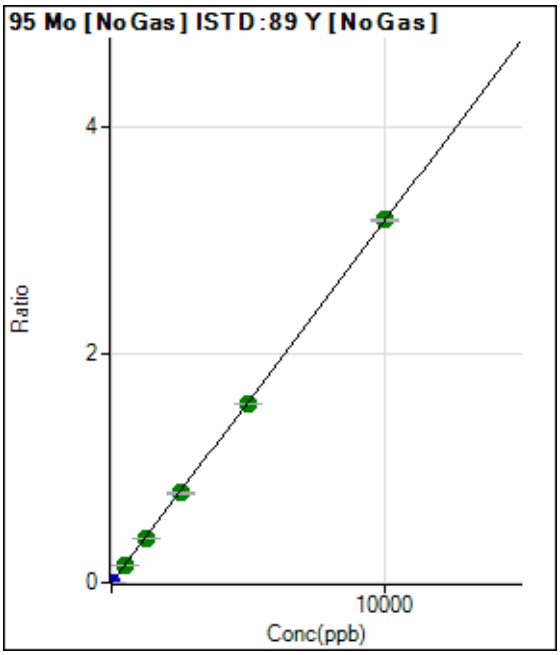


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0000	P	8.5
2	☐	5.000	5.769	20414.30	0.0013	P	0.4
3	☐	500.000	483.801	1691558.62	0.1066	A	1.6
4	☐	1250.000	1235.236	4252140.74	0.2722	A	2.1
5	☐	2500.000	2490.940	8141877.94	0.5489	A	1.3
6	☐	5000.000	4945.265	15807029.49	1.0896	A	0.8
7	☐	10000.000	10032.287	32065352.85	2.2105	A	0.6
8	☐			26950.59	0.0019	P	11.2

y = 2.2034E-004 * x + 1.4613E-005
R = 1.0000
DL = 0.01687
BEC = 0.06632

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	135.56	0.0000	P	10.7
2	☐	5.000	4.917	24904.55	0.0016	P	1.3
3	☐	500.000	483.744	2435084.10	0.1535	A	2.3
4	☐	1250.000	1237.840	6135771.23	0.3927	A	1.6
5	☐	2500.000	2476.807	11656332.88	0.7858	A	1.4
6	☐	5000.000	4945.737	22762283.83	1.5691	A	0.9
7	☐	10000.000	10035.262	46184987.65	3.1838	A	0.2
8	☐			24238.26	0.0017	P	16.7

y = 3.1726E-004 * x + 8.5464E-006
R = 1.0000
DL = 0.008645
BEC = 0.02694

Weight: <None>
Min Conc: 0

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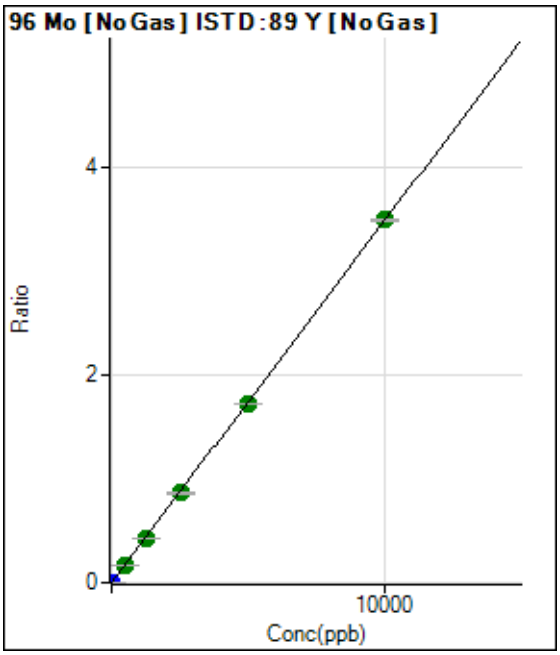
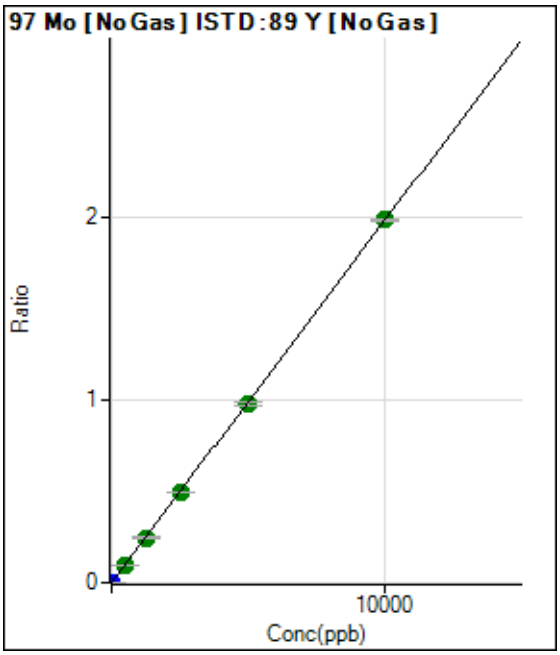


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0000	P	15.2
2	☐	5.000	5.013	27931.14	0.0018	P	1.2
3	☐	500.000	482.085	2665916.04	0.1680	A	1.0
4	☐	1250.000	1234.193	6720095.73	0.4301	A	1.6
5	☐	2500.000	2487.162	12856711.75	0.8668	A	1.7
6	☐	5000.000	4954.103	25045417.13	1.7265	A	0.5
7	☐	10000.000	10029.030	50699254.25	3.4950	A	0.5
8	☐			37510.80	0.0026	P	12.7

y = 3.4849E-004 * x + 1.2161E-005
R = 1.0000
DL = 0.0159
BEC = 0.03489

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	32.3
2	☐	5.000	4.999	15835.31	0.0010	P	0.2
3	☐	500.000	479.005	1506970.86	0.0950	A	1.4
4	☐	1250.000	1242.160	3847771.43	0.2463	A	1.8
5	☐	2500.000	2504.073	7364802.88	0.4965	A	1.4
6	☐	5000.000	4942.652	14215981.32	0.9800	A	1.2
7	☐	10000.000	10029.685	28846145.40	1.9886	A	0.6
8	☐			15066.94	0.0011	P	18.7

y = 1.9827E-004 * x + 6.2980E-006
R = 1.0000
DL = 0.03076
BEC = 0.03177

Weight: <None>
Min Conc: 0

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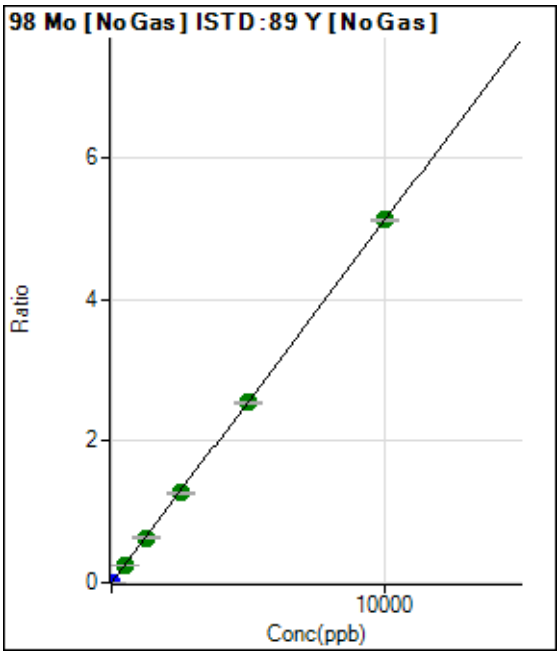
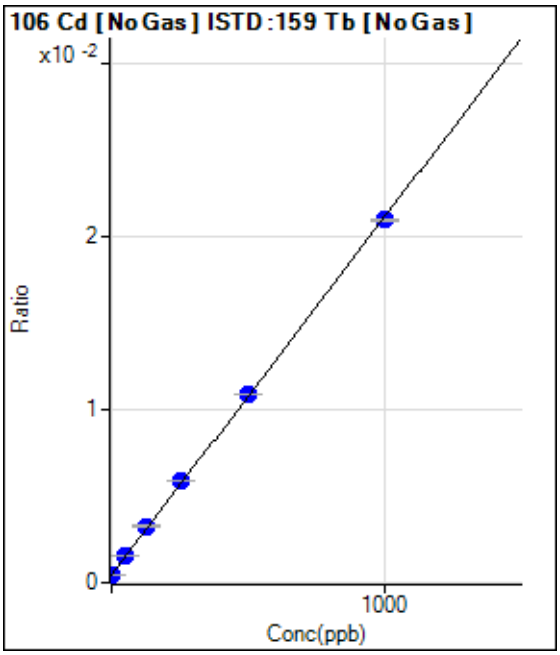


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	218.89	0.0000	P	11.2
2	☐	5.000	4.931	40263.08	0.0025	P	1.0
3	☐	500.000	482.480	3915405.88	0.2468	A	2.0
4	☐	1250.000	1241.424	9919255.48	0.6349	A	2.2
5	☐	2500.000	2481.050	18824390.97	1.2690	A	1.0
6	☐	5000.000	4972.318	36892040.28	2.5431	A	0.8
7	☐	10000.000	10020.527	74343114.45	5.1250	A	0.9
8	☐			38209.94	0.0027	P	18.4

y = 5.1145E-004 * x + 1.3786E-005
R = 1.0000
DL = 0.00906
BEC = 0.02695

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5233.22	0.0004	P	2.2
2	☐	1.000	1.151	5506.64	0.0005	P	3.9
3	☐	50.000	55.616	18959.14	0.0016	P	1.1
4	☐	125.000	135.620	39246.18	0.0032	P	2.2
5	☐	250.000	261.985	69704.87	0.0059	P	0.8
6	☐	500.000	505.949	129517.61	0.0109	P	0.7
7	☐	1000.000	992.421	252049.76	0.0210	P	0.4
8	☐			5040.92	0.0004	P	5.6

y = 2.0665E-005 * x + 4.4188E-004
R = 0.9999
DL = 1.402
BEC = 21.38

Weight: <None>
Min Conc: 0

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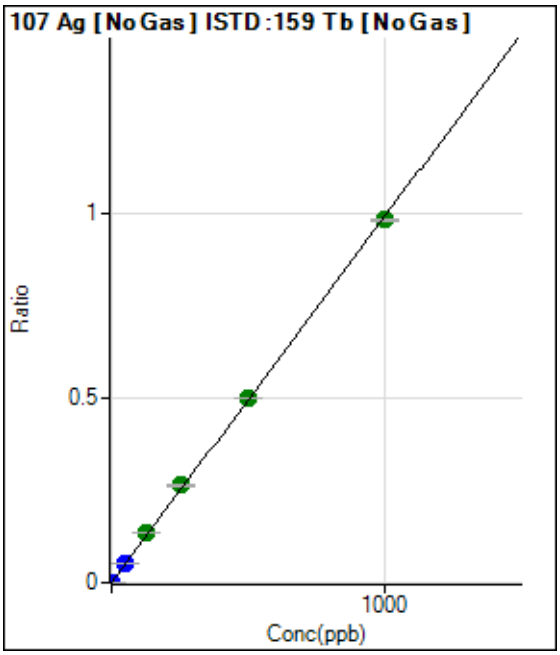
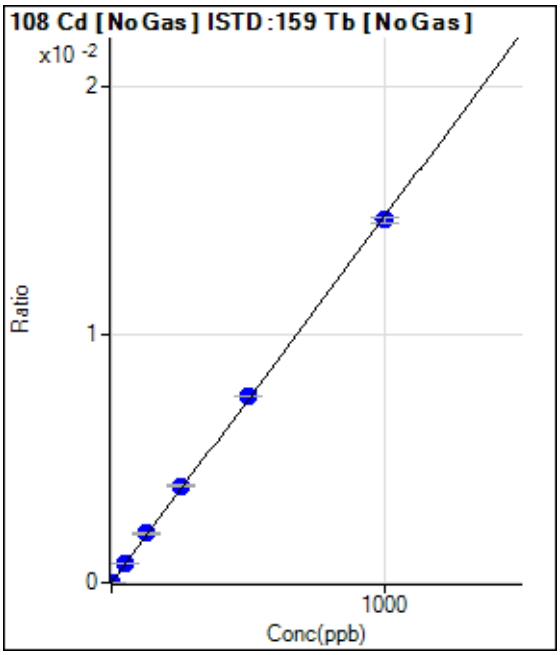


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0000	P	28.7
2	☐	1.000	1.057	12445.44	0.0011	P	1.0
3	☐	50.000	53.691	632526.07	0.0531	P	0.9
4	☐	125.000	136.804	1636264.11	0.1353	A	1.5
5	☐	250.000	265.661	3126286.45	0.2626	A	0.6
6	☐	500.000	505.646	5941184.15	0.4999	A	0.5
7	☐	1000.000	991.602	11793989.54	0.9803	A	0.5
8	☐			5773.45	0.0005	P	19.3

y = 9.8860E-004 * x + 7.2267E-006
R = 0.9998
DL = 0.006305
BEC = 0.00731

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.66	0.0000	P	33.9
2	☐	1.000	1.091	206.67	0.0000	P	12.8
3	☐	50.000	52.730	9276.36	0.0008	P	2.4
4	☐	125.000	134.006	23906.42	0.0020	P	3.1
5	☐	250.000	263.718	46280.17	0.0039	P	1.4
6	☐	500.000	509.207	89211.88	0.0075	P	0.9
7	☐	1000.000	990.705	175681.51	0.0146	P	1.7
8	☐			152.22	0.0000	P	13.3

y = 1.4739E-005 * x + 1.4049E-006
R = 0.9998
DL = 0.09681
BEC = 0.09532

Weight: <None>
Min Conc: 0

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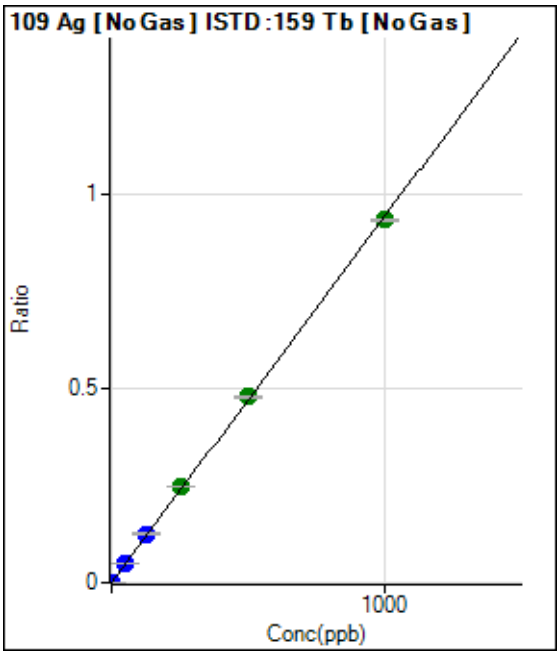
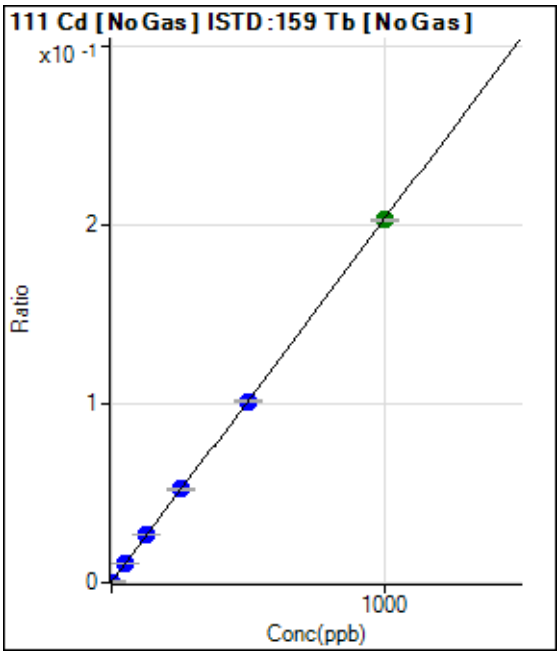


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	16.8
2	☐	1.000	1.037	11550.23	0.0010	P	1.3
3	☐	50.000	52.837	591828.85	0.0497	P	1.3
4	☐	125.000	132.904	1511261.70	0.1249	P	2.2
5	☐	250.000	263.388	2947319.68	0.2476	A	0.7
6	☐	500.000	508.440	5680474.71	0.4779	A	0.6
7	☐	1000.000	991.303	11210744.28	0.9319	A	0.9
8	☐			5415.54	0.0005	P	19.7

y = 9.4002E-004 * x + 2.4370E-006
R = 0.9998
DL = 0.001308
BEC = 0.002593

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3658.25	0.0003	P	2.2
2	☐	1.000	1.125	6350.25	0.0005	P	3.1
3	☐	50.000	52.728	131119.40	0.0110	P	0.5
4	☐	125.000	132.235	328216.87	0.0271	P	1.7
5	☐	250.000	256.724	623507.23	0.0524	P	1.7
6	☐	500.000	498.693	1205886.51	0.1015	P	1.2
7	☐	1000.000	997.932	2439020.72	0.2027	A	0.7
8	☐			4621.05	0.0004	P	10.4

y = 2.0284E-004 * x + 3.0889E-004
R = 1.0000
DL = 0.1012
BEC = 1.523

Weight: <None>
Min Conc: 0

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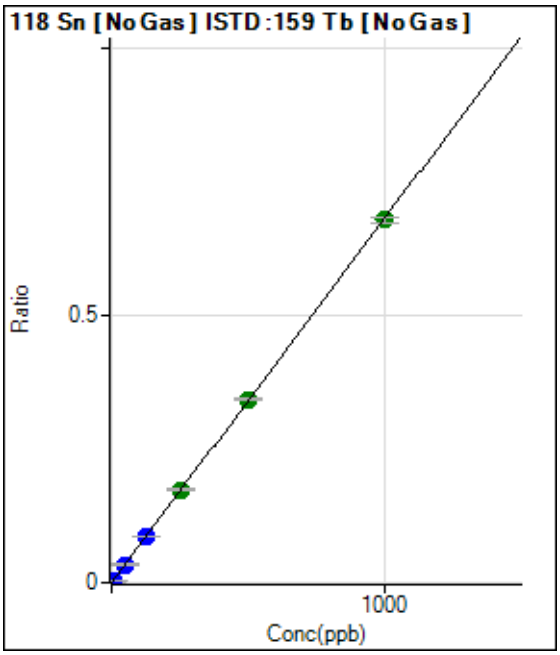
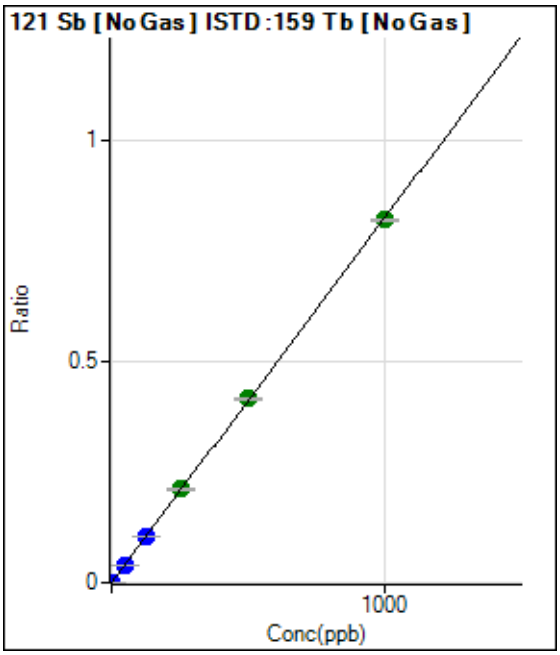


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1388.97	0.0001	P	4.4
2	☐	5.000	5.095	42476.89	0.0036	P	0.6
3	☐	50.000	49.935	407244.73	0.0342	P	1.0
4	☐	125.000	126.445	1044732.15	0.0864	P	2.2
5	☐	250.000	256.014	2080048.03	0.1747	A	0.8
6	☐	500.000	503.799	4085632.30	0.3438	A	1.3
7	☐	1000.000	996.419	8178179.11	0.6798	A	1.4
8	☐			5441.09	0.0005	P	15.4

y = 6.8211E-004 * x + 1.1726E-004
R = 1.0000
DL = 0.0228
BEC = 0.1719

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	19.9
2	☐	2.000	2.037	19851.53	0.0017	P	0.9
3	☐	50.000	49.577	486000.22	0.0408	P	1.1
4	☐	125.000	125.876	1252623.85	0.1036	P	2.5
5	☐	250.000	257.234	2518811.28	0.2116	A	1.5
6	☐	500.000	505.174	4939225.80	0.4156	A	1.1
7	☐	1000.000	995.516	9852949.23	0.8190	A	0.5
8	☐			7269.70	0.0006	P	15.0

y = 8.2266E-004 * x + 3.2844E-006
R = 0.9999
DL = 0.002381
BEC = 0.003992

Weight: <None>
Min Conc: 0

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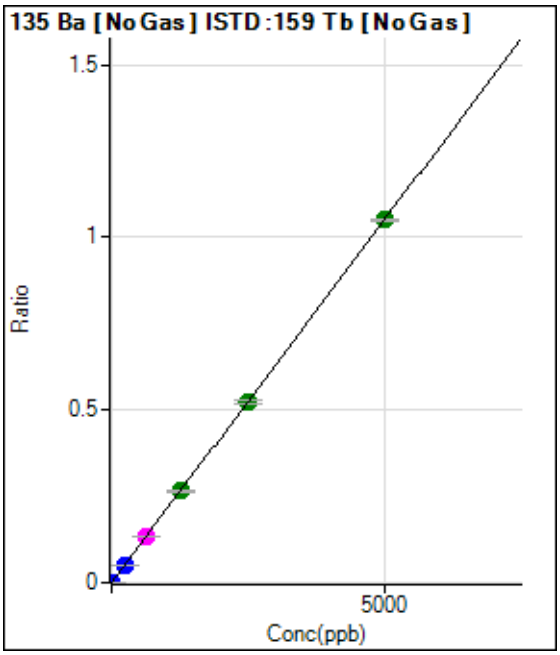
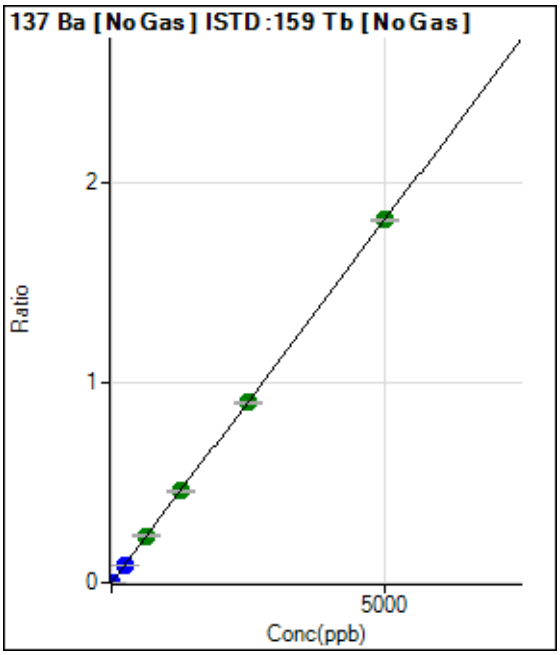


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	5.5
2	☐	10.000	10.100	25171.16	0.0021	P	1.3
3	☐	250.000	242.907	608603.50	0.0511	P	1.1
4	☐	625.000	634.454	1613812.46	0.1334	M	2.9
5	☐	1250.000	1265.495	3167238.98	0.2661	A	2.6
6	☐	2500.000	2494.158	6232587.89	0.5244	A	1.7
7	☐	5000.000	4998.220	12643646.48	1.0509	A	0.4
8	☐			8958.45	0.0008	P	10.6

y = 2.1026E-004 * x + 5.2533E-006
R = 1.0000
DL = 0.004104
BEC = 0.02498

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	115.56	0.0000	P	16.2
2	☐	10.000	10.188	43838.39	0.0037	P	0.9
3	☐	250.000	243.161	1051752.26	0.0883	P	1.0
4	☐	625.000	642.460	2820732.32	0.2332	A	2.7
5	☐	1250.000	1263.264	5458086.72	0.4585	A	1.0
6	☐	2500.000	2480.442	10700410.68	0.9003	A	1.0
7	☐	5000.000	5004.622	21854641.62	1.8166	A	0.7
8	☐			15904.64	0.0014	P	12.1

y = 3.6297E-004 * x + 9.7634E-006
R = 1.0000
DL = 0.0131
BEC = 0.0269

Weight: <None>
Min Conc: 0

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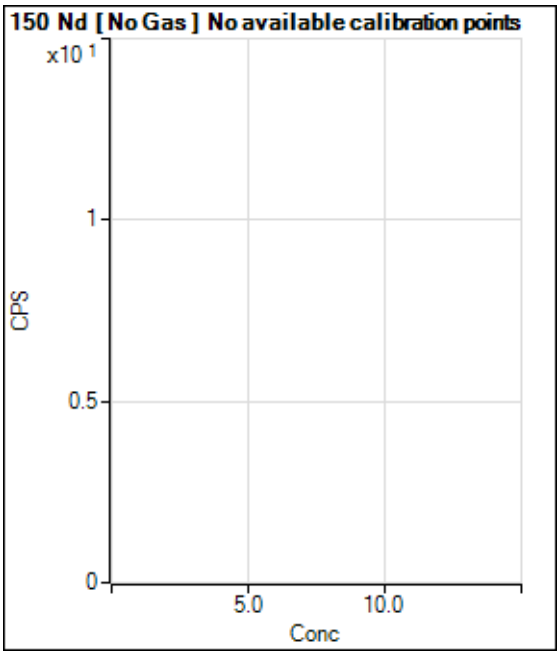
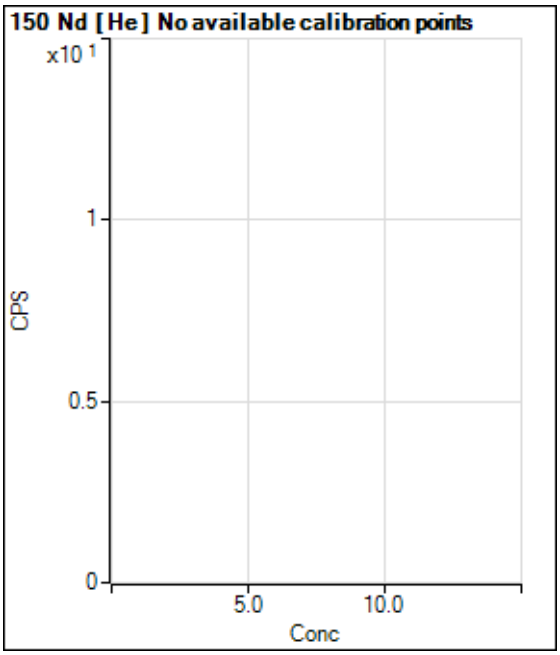


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.44		P	114.
2	☐			10.00		P	88.2
3	☐			58.89		P	14.2
4	☐			127.78		P	14.4
5	☐			217.78		P	15.1
6	☐			465.57		P	5.4
7	☐			845.59		P	4.5
8	☐			181.11		P	10.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			17.78		P	65.8
4	☐			35.56		P	39.0
5	☐			80.00		P	20.8
6	☐			156.67		P	16.6
7	☐			303.34		P	4.0
8	☐			140.00		P	10.4

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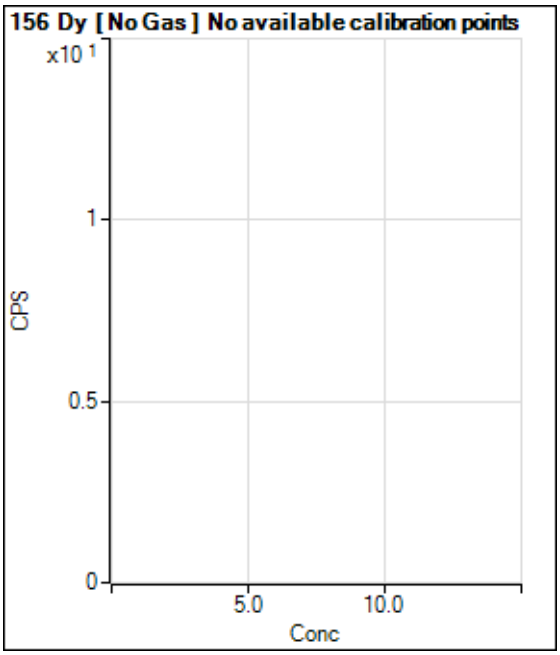

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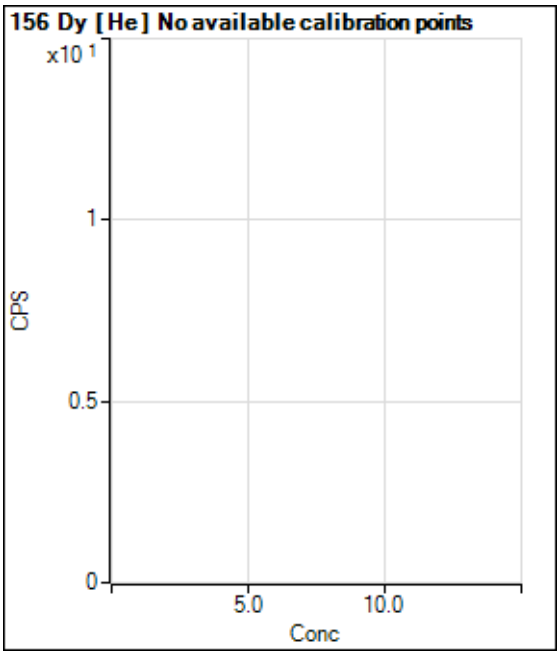
1	☐			10.00		P	66.7
2	☐			10.00		P	88.2
3	☐			26.67		P	37.5
4	☐			44.44		P	41.3
5	☐			82.22		P	23.8
6	☐			153.34		P	11.5
7	☐			296.67		P	3.0
8	☐			370.01		P	10.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.
2	☐			13.34		P	43.3
3	☐			63.33		P	22.9
4	☐			106.67		P	18.7
5	☐			203.34		P	13.4
6	☐			477.79		P	9.5
7	☐			840.03		P	4.3
8	☐			370.01		P	5.6

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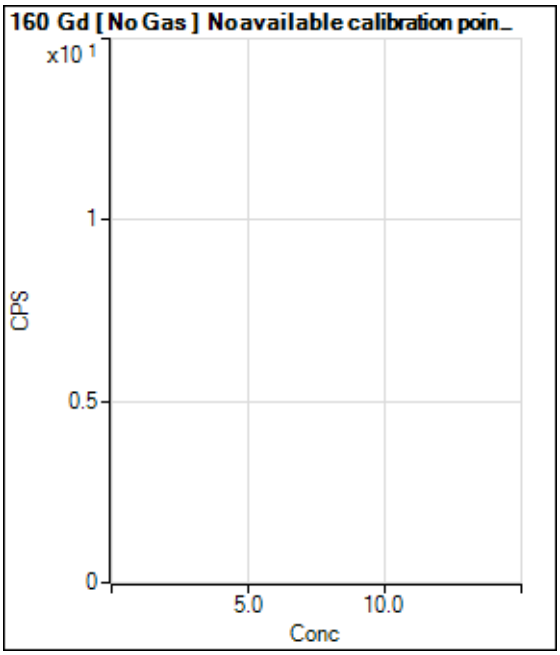
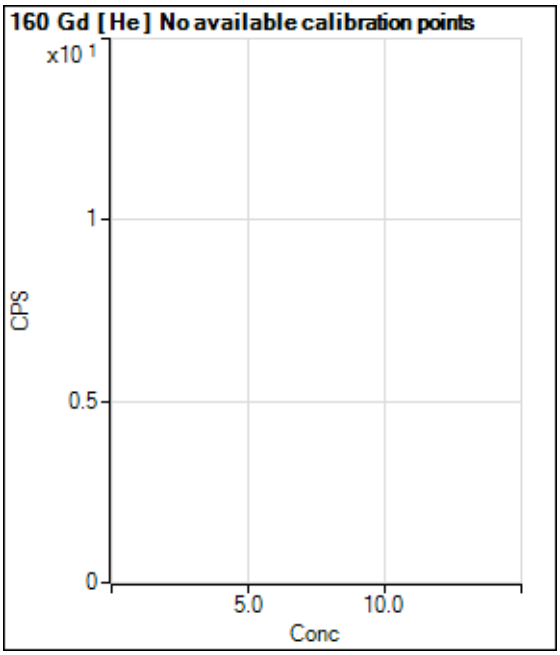


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			41.11		P	16.9
2	☐			44.45		P	15.6
3	☐			60.00		P	16.7
4	☐			64.44		P	25.5
5	☐			92.22		P	30.7
6	☐			121.11		P	6.9
7	☐			190.00		P	11.5
8	☐			376.68		P	13.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			471.13		P	4.8
2	☐			465.57		P	19.4
3	☐			461.13		P	4.2
4	☐			470.01		P	6.2
5	☐			493.35		P	8.9
6	☐			463.35		P	11.2
7	☐			552.24		P	8.0
8	☐			747.81		P	9.1

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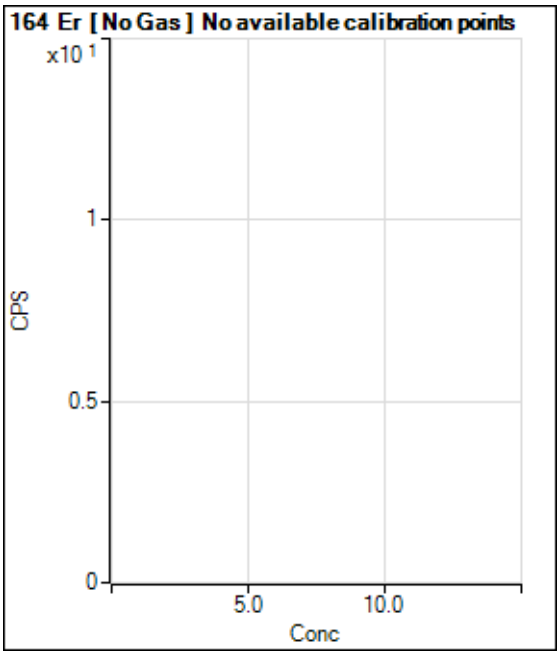
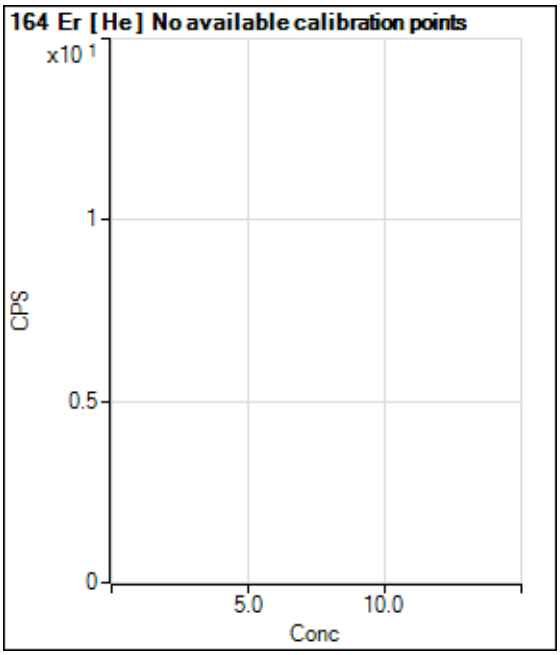


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			60.00		P	20.0
2	☐			52.22		P	13.3
3	☐			68.89		P	2.8
4	☐			87.78		P	8.8
5	☐			100.00		P	26.0
6	☐			151.11		P	18.0
7	☐			278.89		P	15.2
8	☐			418.90		P	7.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			38.89		P	40.5
2	☐			52.22		P	37.4
3	☐			58.89		P	22.9
4	☐			44.45		P	15.6
5	☐			77.78		P	13.1
6	☐			112.22		P	6.9
7	☐			180.00		P	1.9
8	☐			342.23		P	5.6

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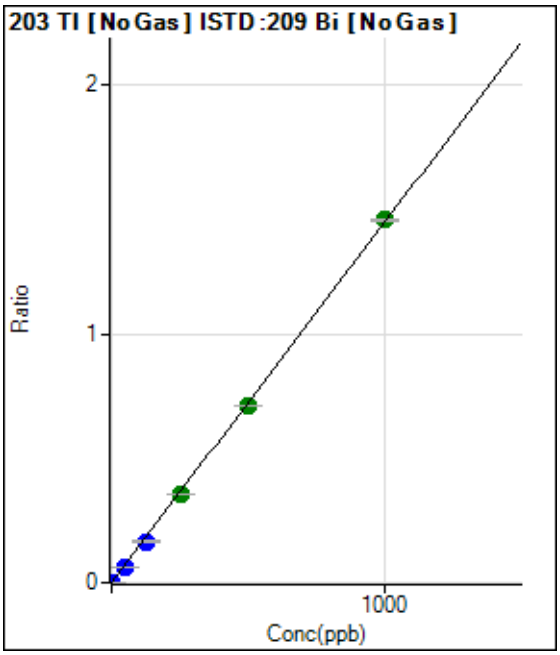
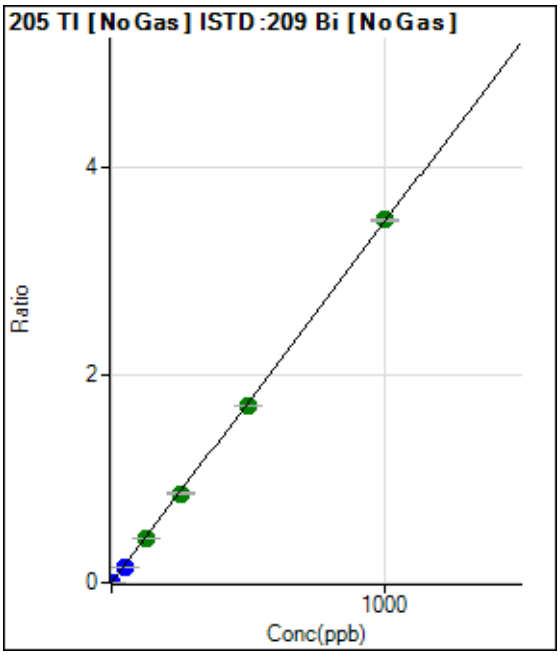


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0000	P	15.2
2	☐	1.000	0.885	9353.28	0.0013	P	0.8
3	☐	50.000	44.061	462377.06	0.0638	P	1.5
4	☐	125.000	113.822	1230321.68	0.1648	P	2.5
5	☐	250.000	246.580	2639981.52	0.3570	A	0.6
6	☐	500.000	491.208	5253392.94	0.7111	A	0.6
7	☐	1000.000	1006.945	10648944.49	1.4578	A	0.4
8	☐			4720.89	0.0007	P	24.8

y = 0.0014 * x + 1.9888E-005
R = 0.9999
DL = 0.006283
BEC = 0.01374

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.12	0.0000	P	17.6
2	☐	1.000	0.866	21927.75	0.0031	P	1.2
3	☐	50.000	43.600	1098384.87	0.1516	P	1.7
4	☐	125.000	120.984	3139876.20	0.4205	A	1.5
5	☐	250.000	246.347	6331427.47	0.8562	A	1.5
6	☐	500.000	490.251	12587200.37	1.7039	A	0.5
7	☐	1000.000	1006.610	25557325.17	3.4985	A	0.5
8	☐			10955.77	0.0017	P	21.3

y = 0.0035 * x + 4.1070E-005
R = 0.9999
DL = 0.00623
BEC = 0.01182

Weight: <None>
Min Conc: 0

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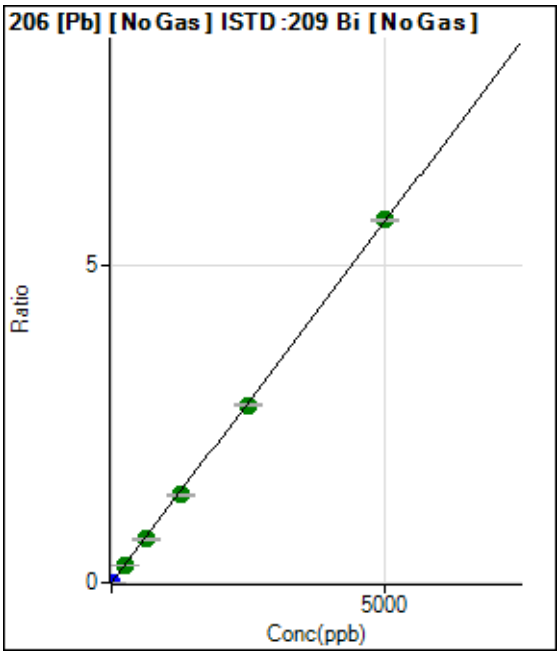
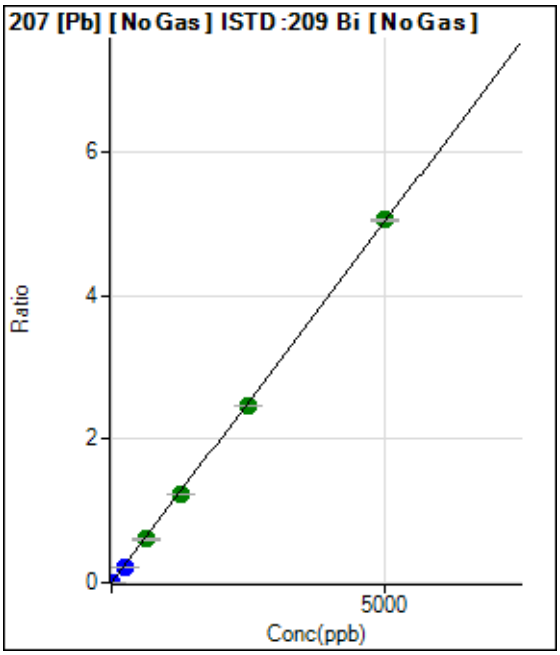


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	627.80	0.0001	P	6.8
2	☐	1.000	0.915	8092.48	0.0011	P	3.1
3	☐	250.000	233.821	1920912.96	0.2651	A	0.5
4	☐	625.000	604.729	5117317.53	0.6854	A	2.2
5	☐	1250.000	1219.978	10224824.15	1.3826	A	1.2
6	☐	2500.000	2460.268	20598120.25	2.7882	A	1.2
7	☐	5000.000	5030.714	41646987.99	5.7012	A	0.4
8	☐			19022.62	0.0030	P	17.8

y = 0.0011 * x + 8.8542E-005
R = 0.9999
DL = 0.016
BEC = 0.07813

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	541.13	0.0001	P	2.9
2	☐	1.000	0.902	7061.89	0.0010	P	2.5
3	☐	250.000	218.651	1591505.69	0.2196	P	1.1
4	☐	625.000	605.372	4538794.86	0.6079	A	2.0
5	☐	1250.000	1225.647	9101208.13	1.2307	A	0.7
6	☐	2500.000	2461.854	18260707.09	2.4720	A	0.1
7	☐	5000.000	5029.182	36887527.23	5.0497	A	0.6
8	☐			16320.14	0.0026	P	18.8

y = 0.0010 * x + 7.6301E-005
R = 0.9999
DL = 0.006686
BEC = 0.07599

Weight: <None>
Min Conc: 0

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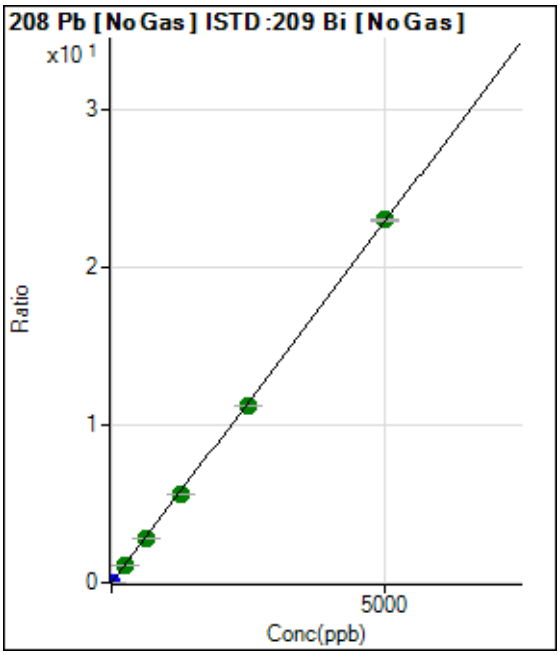
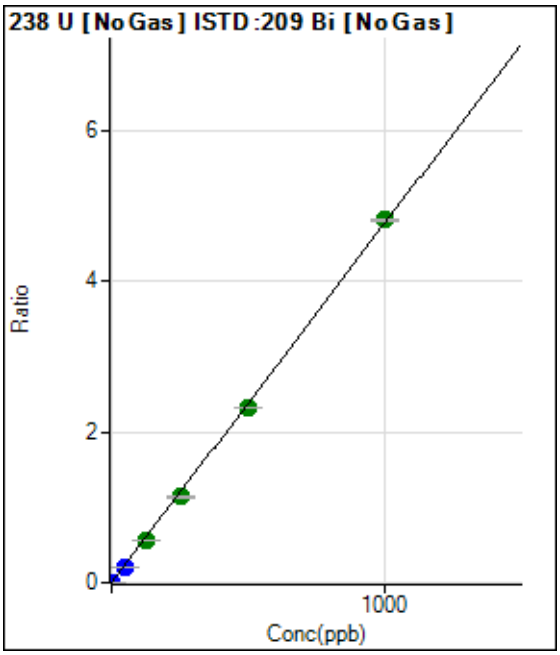


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2463.45	0.0003	P	6.0
2	☐	1.000	0.909	32382.07	0.0045	P	2.0
3	☐	250.000	231.691	7684759.63	1.0604	A	1.1
4	☐	625.000	606.645	20726523.34	2.7760	A	1.9
5	☐	1250.000	1225.297	41462815.56	5.6066	A	0.5
6	☐	2500.000	2458.293	83093572.79	11.2482	A	0.3
7	☐	5000.000	5030.239	168130233.8	23.0160	A	0.4
8	☐			75393.13	0.0119	P	18.0

y = 0.0046 * x + 3.4742E-004
R = 0.9999
DL = 0.01356
BEC = 0.07593

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0000	P	48.2
2	☐	1.000	0.840	28871.22	0.0040	P	0.1
3	☐	50.000	41.043	1417722.23	0.1956	P	1.4
4	☐	125.000	116.641	4150704.49	0.5560	A	2.6
5	☐	250.000	238.999	8424344.74	1.1392	A	1.2
6	☐	500.000	487.653	17171006.69	2.3244	A	0.4
7	☐	1000.000	1010.417	35181966.42	4.8161	A	0.4
8	☐			13651.78	0.0021	P	21.1

y = 0.0048 * x + 1.0512E-005
R = 0.9998
DL = 0.003186
BEC = 0.002205

Weight: <None>
Min Conc: 0

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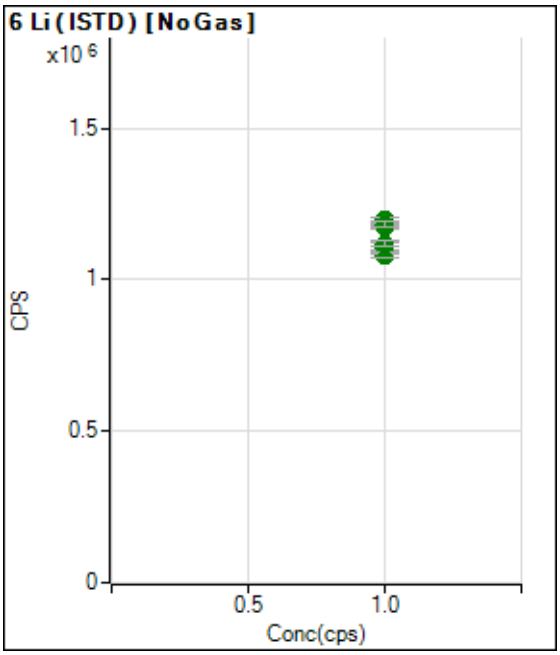

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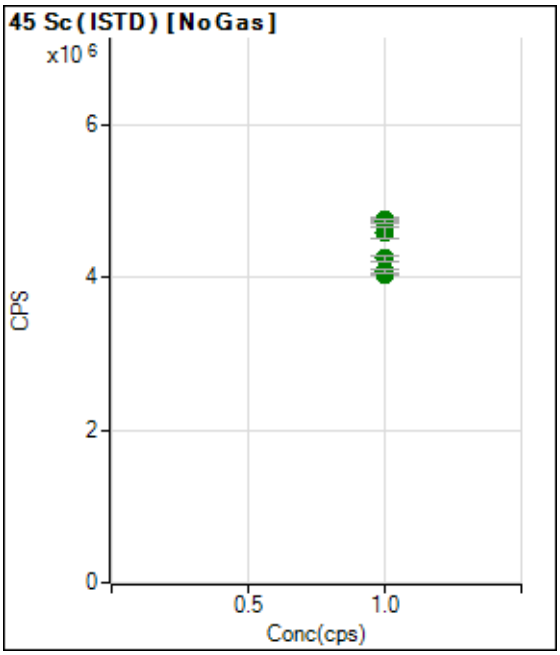
1	☐	1.000		1094306.95		A	0.5
2	☐	1.000		1081102.86		A	1.1
3	☐	1.000		1107810.16		A	2.3
4	☐	1.000		1175878.03		A	0.9
5	☐	1.000		1181028.34		A	0.6
6	☐	1.000		1197799.65		A	1.4
7	☐	1.000		1183078.16		A	1.4
8	☐	1.000		1120272.28		A	1.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4752899.48		A	1.0
2	☐	1.000		4723591.46		A	0.4
3	☐	1.000		4735877.08		A	1.4
4	☐	1.000		4587141.81		A	2.9
5	☐	1.000		4244976.01		A	2.1
6	☐	1.000		4053909.10		A	0.1
7	☐	1.000		4042926.85		A	0.0
8	☐	1.000		4073477.34		A	1.4

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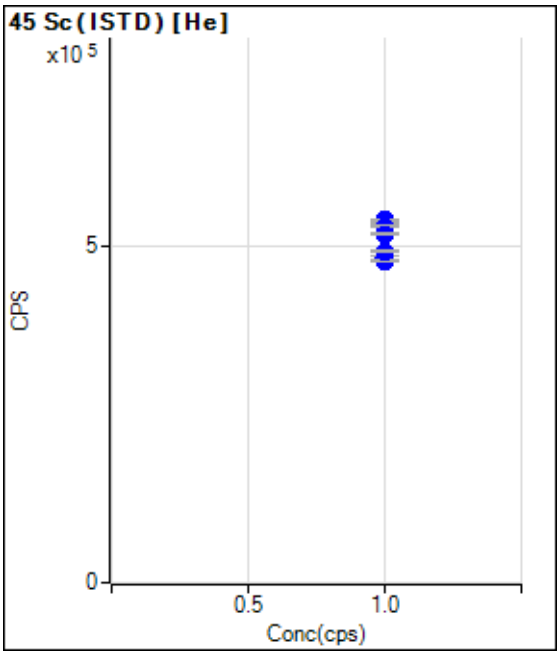
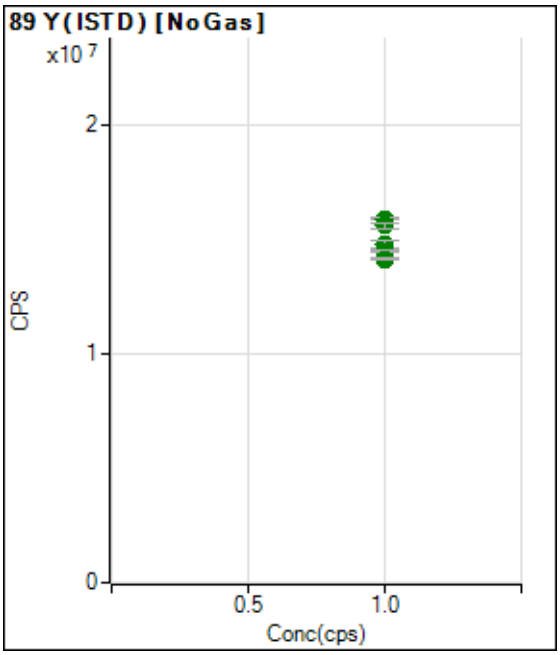


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		536225.88		P	0.4
2	☐	1.000		540251.02		P	0.5
3	☐	1.000		530352.76		P	0.4
4	☐	1.000		518649.81		P	0.6
5	☐	1.000		484234.38		P	1.2
6	☐	1.000		477699.94		P	0.2
7	☐	1.000		480359.37		P	0.3
8	☐	1.000		493303.97		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15877093.51		A	1.9
2	☐	1.000		15877354.35		A	0.1
3	☐	1.000		15868415.46		A	1.2
4	☐	1.000		15626232.82		A	1.7
5	☐	1.000		14836629.36		A	2.2
6	☐	1.000		14506899.64		A	0.4
7	☐	1.000		14506405.20		A	0.7
8	☐	1.000		14162797.01		A	0.6

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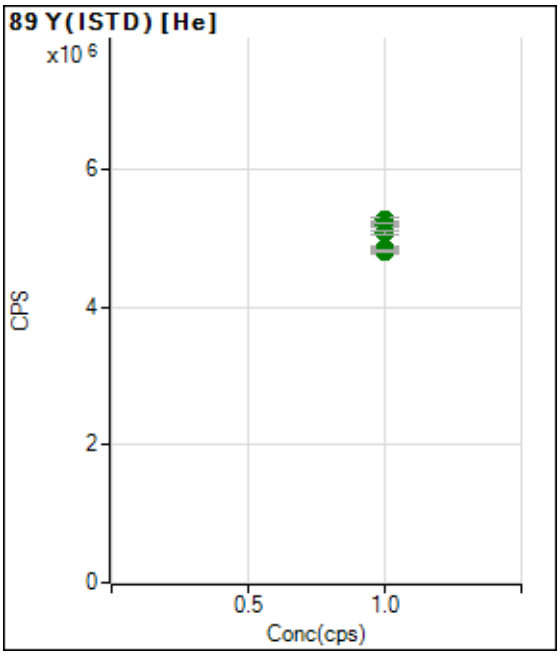

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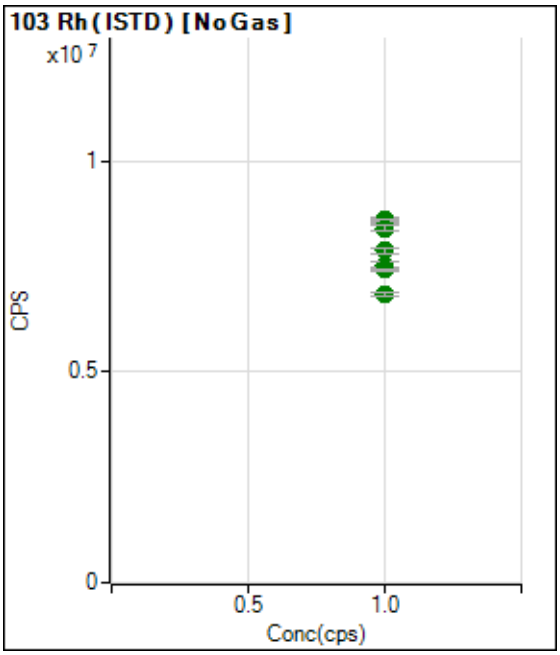
1	☐	1.000		5227078.60		A	1.4
2	☐	1.000		5270452.77		A	1.4
3	☐	1.000		5205011.21		A	1.2
4	☐	1.000		5082887.49		A	0.9
5	☐	1.000		4872314.55		A	0.3
6	☐	1.000		4803596.18		A	0.6
7	☐	1.000		4863842.95		A	0.5
8	☐	1.000		4826228.75		A	0.5



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1	☐	1.000		8584727.51		A	1.4
2	☐	1.000		8609272.86		A	1.5
3	☐	1.000		8596786.75		A	0.3
4	☐	1.000		8414921.05		A	2.0
5	☐	1.000		7872037.87		A	2.1
6	☐	1.000		7551338.71		A	1.7
7	☐	1.000		7415253.85		A	0.5
8	☐	1.000		6836461.70		A	1.5

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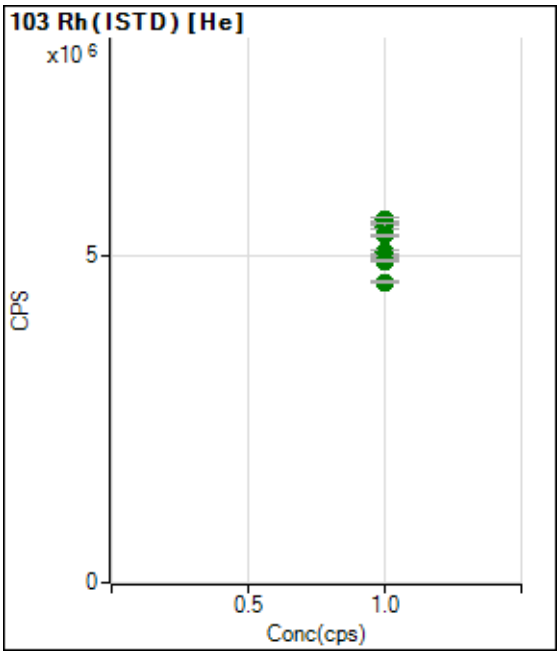

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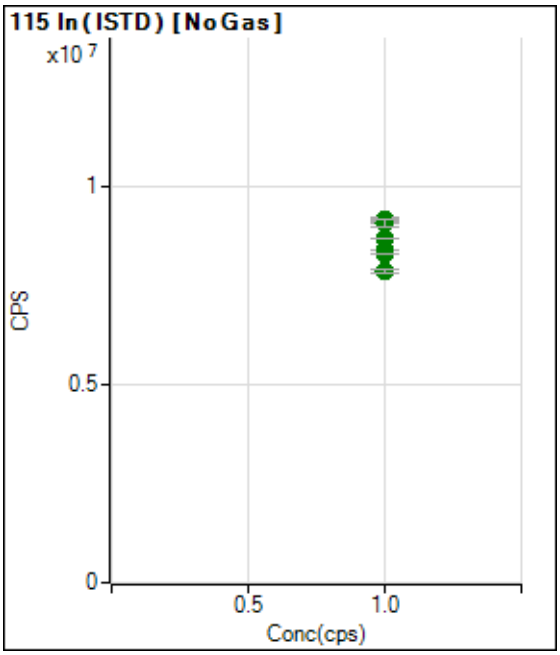
1	☐	1.000		5512469.36		A	0.8
2	☐	1.000		5557992.76		A	1.3
3	☐	1.000		5458740.68		A	1.4
4	☐	1.000		5318094.12		A	0.7
5	☐	1.000		5063118.47		A	1.2
6	☐	1.000		5003898.19		A	0.5
7	☐	1.000		4931893.61		A	0.9
8	☐	1.000		4608106.49		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9124502.01		A	0.3
2	☐	1.000		9163196.12		A	1.7
3	☐	1.000		9173721.51		A	0.9
4	☐	1.000		9072745.96		A	2.2
5	☐	1.000		8696720.93		A	0.4
6	☐	1.000		8416389.21		A	0.5
7	☐	1.000		8309800.82		A	0.2
8	☐	1.000		7874993.13		A	1.2

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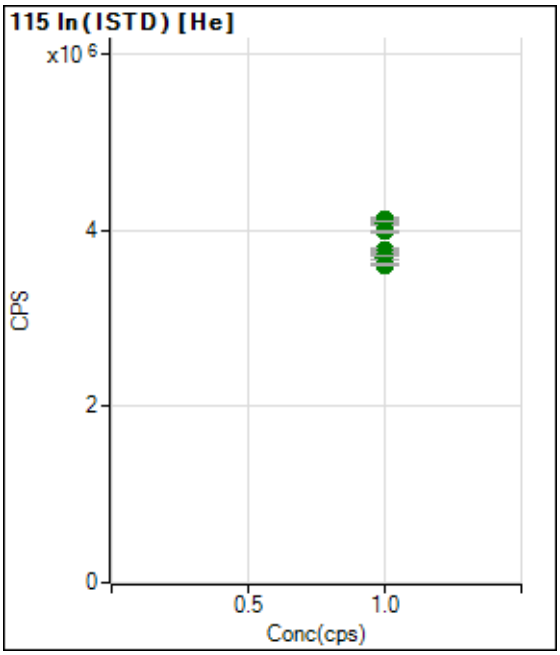

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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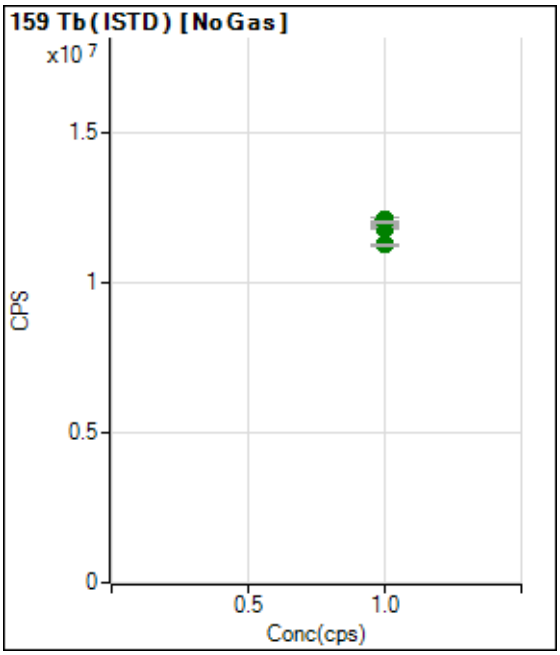
2	☐	1.000		4120190.64		A	0.5
3	☐	1.000		4079812.07		A	1.1
4	☐	1.000		3988009.97		A	0.7
5	☐	1.000		3784073.01		A	0.6
6	☐	1.000		3743790.06		A	0.3
7	☐	1.000		3692121.15		A	0.8
8	☐	1.000		3611102.79		A	0.3



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1	☐	1.000		11841771.22		A	0.9
2	☐	1.000		11823989.27		A	0.7
3	☐	1.000		11915433.30		A	0.4
4	☐	1.000		12099660.93		A	1.9
5	☐	1.000		11903703.85		A	1.0
6	☐	1.000		11885208.71		A	0.6
7	☐	1.000		12030999.68		A	0.5
8	☐	1.000		11278060.67		A	0.5

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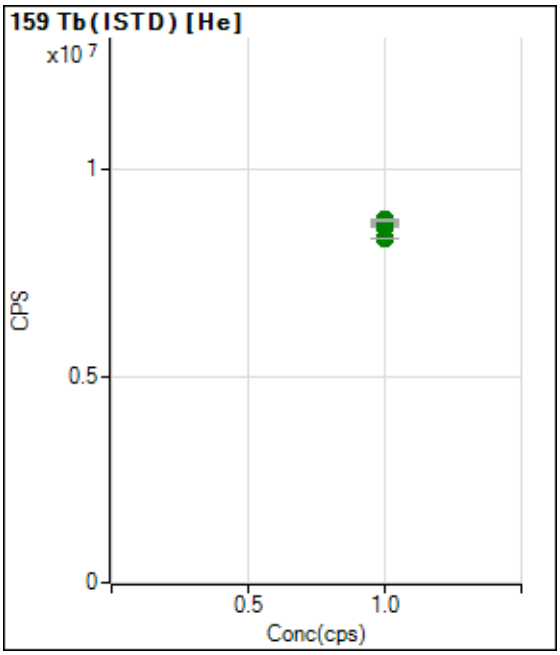

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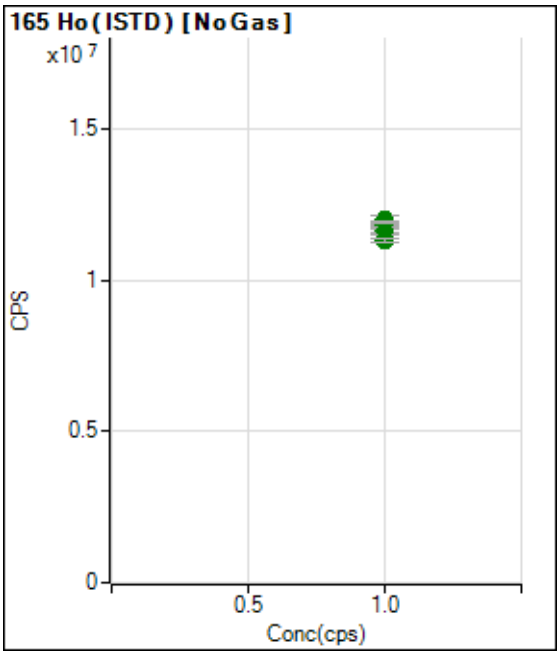
1	☐	1.000		8626397.72		A	0.5
2	☐	1.000		8652015.84		A	0.4
3	☐	1.000		8720301.53		A	0.5
4	☐	1.000		8741976.40		A	0.9
5	☐	1.000		8630591.26		A	0.5
6	☐	1.000		8716953.06		A	0.6
7	☐	1.000		8782472.23		A	0.8
8	☐	1.000		8330541.12		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11622799.82		A	1.2
2	☐	1.000		11617170.10		A	1.7
3	☐	1.000		11831901.77		A	0.3
4	☐	1.000		11985772.18		A	2.0
5	☐	1.000		11772920.79		A	0.2
6	☐	1.000		11799863.30		A	0.9
7	☐	1.000		11919096.21		A	0.2
8	☐	1.000		11300927.61		A	1.2

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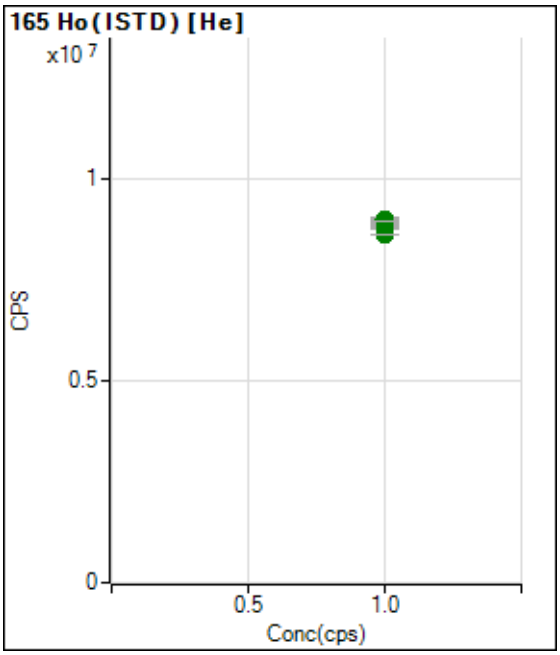
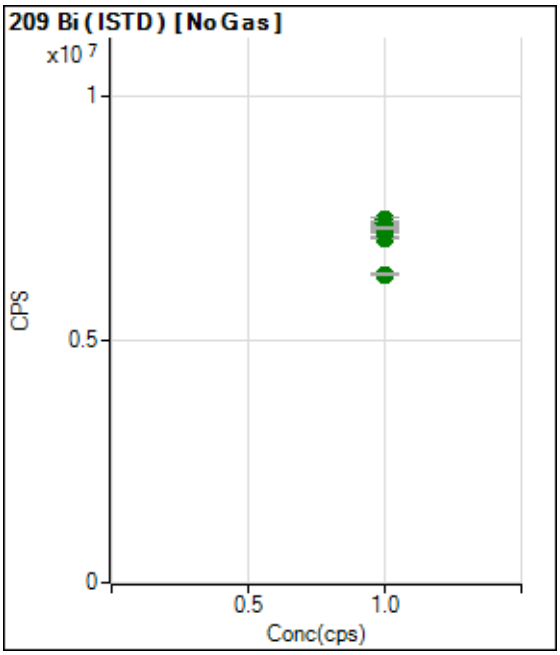


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8781980.91		A	0.4
2	☐	1.000		8867128.83		A	0.4
3	☐	1.000		8919450.56		A	1.4
4	☐	1.000		8961922.71		A	0.9
5	☐	1.000		8860476.05		A	0.6
6	☐	1.000		8965214.52		A	1.2
7	☐	1.000		8932317.99		A	0.3
8	☐	1.000		8585733.62		A	0.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7092126.01		A	0.6
2	☐	1.000		7188312.05		A	0.1
3	☐	1.000		7246932.53		A	0.5
4	☐	1.000		7467442.74		A	1.5
5	☐	1.000		7395335.93		A	1.0
6	☐	1.000		7387149.96		A	1.2
7	☐	1.000		7305018.78		A	0.6
8	☐	1.000		6348631.16		A	0.2

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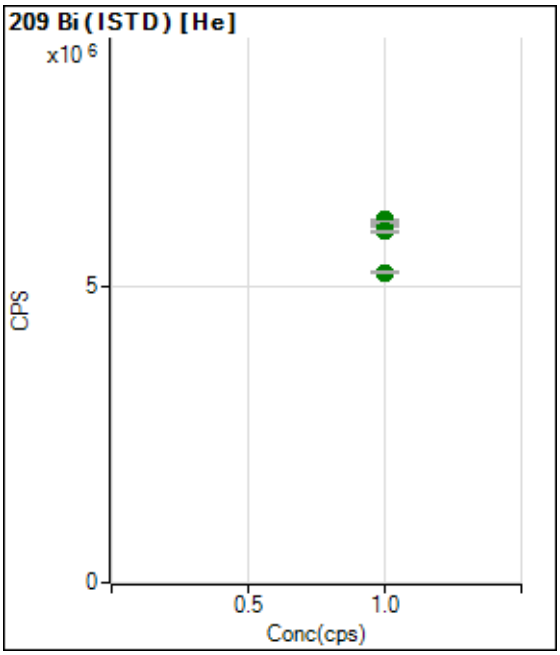


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5994938.18		A	0.0
2	☐	1.000		6020745.05		A	0.7
3	☐	1.000		6066476.02		A	0.1
4	☐	1.000		6112976.86		A	0.2
5	☐	1.000		6123001.37		A	0.3
6	☐	1.000		6082896.64		A	0.5
7	☐	1.000		5927646.02		A	0.4
8	☐	1.000		5237048.36		A	0.2

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7
ClientSampleId :TUNE002

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7020225 MS.b
Acq. Date-Time	2025-02-02 13:51:44
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		6022	60215.58			0.597	5.000
24		84784	847843.98			0.588	5.000
25		10889	108888.52			0.303	5.000
26		12442	124417.46			0.491	5.000
59		85335	853349.74			1.128	5.000
113		12700	127001.97			0.230	5.000
115		158502	1585015.98			0.269	5.000
206		35026	350260.00			0.652	5.000
207		30697	306972.06			0.629	5.000
208		72969	729690.44			0.456	5.000
220		0	2.60			43.853	

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	6012	5970	6048	6015	6063
24	84083	85428	84666	84701	85044
25	10851	10861	10911	10893	10929
26	12388	12371	12454	12483	12514
59	85222	86797	85546	84174	84935
113	12684	12665	12692	12736	12724
115	159246	158244	158471	158273	158274
206	34787	34767	35168	35185	35223
207	30640	30421	30669	30923	30833
208	72485	72757	73181	73211	73212

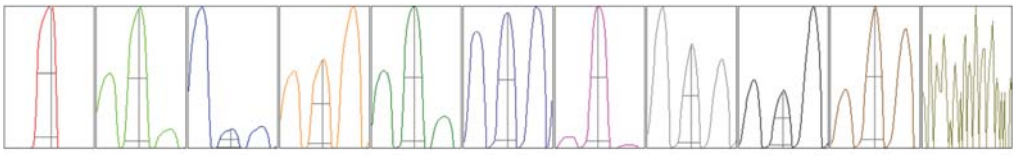
Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7
ClientSampleId :TUNE002

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	9794.14	9.10	8.90 - 9.10	
24	141810.10	23.95	23.90 - 24.10	
25	18375.56	24.95	24.90 - 25.10	
26	21258.11	25.95	25.90 - 26.10	
59	146724.83	58.95	58.90 - 59.10	
113	23449.79	113.00	112.90 - 113.10	
115	297881.98	114.95	114.90 - 115.10	
206	69766.43	206.00	205.90 - 206.10	
207	59838.48	207.00	206.90 - 207.10	
208	145001.34	208.00	207.90 - 208.10	
220	0.00	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.768	0.900	
24	0.64	0.828	0.900	
25	0.62	0.747	0.900	
26	0.62	0.780	0.900	
59	0.61	0.781	0.900	
113	0.56	0.736	0.900	
115	0.53	0.781	0.900	
206	0.52	0.744	0.900	
207	0.53	0.755	0.900	
208	0.52	0.765	0.900	
220	0.35	0.350		

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

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7
ClientSampleId :TUNE002

US EPA Tune Check Report

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	9.2 V	Deflect	14.8 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	140 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.2 mm		

EM

Discriminator	4.8 mV	Analog HV	2267 V	Pulse HV	1066 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		32133	321333.04			2.105	
89		83981	839805.90			2.335	
205		36354	363538.30			1.940	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	32608	32461	30950	32214	32434
89	85675	84068	80650	84429	85081
205	36937	36519	35144	36424	36746

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	8.7 V	Deflect	3.4 V

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7
ClientSampleId :TUNE002

US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	139	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	0.2 mm

EM

Discriminator	4.8 mV	Analog HV	2267 V	Pulse HV	1066 V

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.09	-0.01	0.11	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.01	0.02	-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	-0.02	0.02	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	0.04	-0.02	-0.02	0.00	N/A	ppb
Cadmium	106-1	0.26	0.27	-0.54	0.00	N/A	ppb
Cadmium	111-1	0.02	0.02	-0.04	0.00	N/A	ppb
Calcium	43-1	-2.57	1.80	0.77	0.00	N/A	ppb
Calcium	44-1	0.30	-0.60	0.30	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	0.02	-0.02	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	0.04	-0.12	0.08	0.00	N/A	ppb
Iron	57-2	-0.45	-0.67	1.12	0.00	N/A	ppb
Iron	54-2	0.09	-0.07	-0.02	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.00	0.01	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	0.01	0.00	0.00	N/A	ppb
Lithium	6-1				100		%
Magnesium	24-2	0.23	-0.10	-0.12	0.00	N/A	ppb
Manganese	55-2	0.00	-0.01	0.01	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	-0.01	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	-0.01	0.00	N/A	ppb
Molybdenum	97-1	0.00	-0.01	0.01	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	-0.06	-0.06	0.12	0.00	N/A	ppb
Phosphorus	31-2	-20.04	-18.10	-16.65	-18.26		ppb
Potassium	39-2	2.57	-1.51	-1.06	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.13	-0.24	0.37	0.00	N/A	ppb
Selenium	77-2	-0.05	-0.05	0.11	0.00	N/A	ppb
Selenium	78-2	-0.59	-0.43	1.02	0.00	N/A	ppb
Silicon	28-1	-1.70	3.13	-1.43	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	0.80	-0.20	-0.60	0.00	N/A	ppb
Strontium	86-1	-0.40	0.37	0.03	0.00	N/A	ppb
Strontium	88-1	-0.01	0.01	0.00	0.00	N/A	ppb
Sulfur	34-1	-11.01	-35.46	91.61	15.05	448.09	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	0.01	0.00	-0.01	0.00	N/A	ppb
Titanium	47-1	-0.01	0.01	0.00	0.00	N/A	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	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	-0.05	0.06	-0.01	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	-0.01	0.00	0.01	0.00	N/A	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.52	19.23	18.94	19.23	1.52	ppb
Antimony	121-1	2.03	2.06	2.02	2.04	0.88	ppb
Arsenic	75-2	1.12	1.13	1.21	1.15	4.56	ppb
Barium	135-1	9.95	10.17	10.17	10.10	1.26	ppb
Barium	137-1	10.19	10.28	10.10	10.19	0.88	ppb
Beryllium	9-1	1.10	1.09	1.11	1.10	0.73	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.92	1.16	1.20	1.09	13.94	ppb
Cadmium	106-1	2.06	0.32	1.07	1.15	75.84	ppb
Cadmium	111-1	1.21	1.04	1.12	1.12	7.37	ppb
Calcium	43-1	525.93	532.23	524.43	527.53	0.78	ppb
Calcium	44-1	521.64	533.24	530.26	528.38	1.14	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.11	2.02	2.05	2.06	2.15	ppb
Cobalt	59-2	1.10	1.05	1.05	1.07	2.40	ppb
Copper	63-2	2.50	2.37	2.42	2.43	2.72	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				101		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	54.85	54.36	53.99	54.40	0.79	ppb
Iron	57-2	57.68	54.27	57.88	56.61	3.58	ppb
Iron	54-2	57.74	56.79	54.89	56.47	2.56	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.88	0.93	0.94	0.92	3.35	ppb
Lead	207-1	0.88	0.93	0.90	0.90	2.70	ppb
Lead	208-1	0.89	0.92	0.92	0.91	2.15	ppb
Lithium	6-1				99		%
Magnesium	24-2	496.69	494.38	491.00	494.02	0.58	ppb
Manganese	55-2	1.00	1.02	1.02	1.01	1.38	ppb
Molybdenum	94-1	5.76	5.80	5.75	5.77	0.42	ppb
Molybdenum	95-1	4.88	4.88	4.99	4.92	1.28	ppb
Molybdenum	96-1	4.99	5.08	4.96	5.01	1.22	ppb
Molybdenum	97-1	5.01	4.99	5.00	5.00	0.20	ppb
Molybdenum	98-1	4.98	4.88	4.94	4.93	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.03	0.88	1.03	0.98	8.91	ppb
Phosphorus	31-2	21.28	16.42	17.08	18.26	14.43	ppb
Potassium	39-2	524.39	518.57	518.93	520.63	0.63	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	4.49	5.33	5.66	5.16	11.60	ppb
Selenium	77-2	3.28	6.05	4.93	4.75	29.31	ppb
Selenium	78-2	4.77	6.75	6.94	6.16	19.57	ppb
Silicon	28-1	3.74	3.67	3.55	3.65	2.67	ppb
Silver	107-1	1.06	1.06	1.04	1.06	1.04	ppb
Silver	109-1	1.05	1.02	1.04	1.04	1.30	ppb
Sodium	23-2	498.75	490.53	495.22	494.83	0.83	ppb
Strontium	86-1	23.60	23.85	23.85	23.76	0.61	ppb
Strontium	88-1	23.68	23.74	23.79	23.74	0.23	ppb
Sulfur	34-1	-32.17	-3.34	-9.63	-15.05		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.88	0.89	0.89	0.89	0.83	ppb
Thallium	205-1	0.86	0.87	0.88	0.87	1.19	ppb
Tin	118-1	5.10	5.12	5.06	5.09	0.59	ppb
Titanium	47-1	5.31	5.17	5.01	5.16	2.95	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.84	0.84	0.84	0.84	0.07	ppb
Vanadium	51-2	5.07	5.05	5.00	5.04	0.75	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	5.11	5.27	5.28	5.22	1.82	ppb
Zirconium	90-1	0.96	0.98	0.95	0.96	1.74	ppb
Zirconium	91-1	0.99	0.92	1.03	0.98	5.69	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	968.96	944.85	955.01	956.27	1.27	ppb
Antimony	121-1	48.97	49.85	49.91	49.58	1.06	ppb
Arsenic	75-2	50.57	50.12	51.19	50.63	1.06	ppb
Barium	135-1	239.77	244.75	244.20	242.91	1.13	ppb
Barium	137-1	240.51	243.94	245.03	243.16	0.97	ppb
Beryllium	9-1	54.70	54.58	53.63	54.30	1.08	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	51.30	53.36	53.53	52.73	2.36	ppb
Cadmium	106-1	54.63	56.19	56.02	55.62	1.54	ppb
Cadmium	111-1	52.40	52.93	52.85	52.73	0.55	ppb
Calcium	43-1	5030.86	4965.49	5004.33	5000.23	0.66	ppb
Calcium	44-1	4753.86	4752.68	4759.18	4755.24	0.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.41	49.32	49.07	49.27	0.35	ppb
Cobalt	59-2	49.59	49.26	49.38	49.41	0.34	ppb
Copper	63-2	509.24	504.08	508.03	507.12	0.53	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				102		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	2497.92	2472.82	2489.97	2486.90	0.52	ppb
Iron	57-2	2585.98	2560.15	2567.43	2571.19	0.52	ppb
Iron	54-2	2622.35	2603.84	2626.48	2617.56	0.46	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	232.42	234.44	234.60	233.82	0.52	ppb
Lead	207-1	216.05	219.30	220.60	218.65	1.07	ppb
Lead	208-1	229.01	231.92	234.14	231.69	1.11	ppb
Lithium	6-1				101		%
Magnesium	24-2	4692.27	4714.16	4808.15	4738.19	1.30	ppb
Manganese	55-2	490.50	473.87	485.32	483.23	1.76	ppb
Molybdenum	94-1	474.77	489.12	487.51	483.80	1.63	ppb
Molybdenum	95-1	473.12	495.09	483.02	483.74	2.27	ppb
Molybdenum	96-1	476.65	483.78	485.82	482.08	1.00	ppb
Molybdenum	97-1	471.78	485.42	479.81	479.01	1.43	ppb
Molybdenum	98-1	472.74	491.54	483.17	482.48	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	50.55	50.99	51.48	51.01	0.91	ppb
Phosphorus	31-2	990.48	967.55	1017.50	991.84	2.52	ppb
Potassium	39-2	2417.41	2379.34	2338.55	2378.43	1.66	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	49.10	50.96	50.13	50.06	1.86	ppb
Selenium	77-2	47.32	47.81	51.27	48.80	4.42	ppb
Selenium	78-2	48.39	49.93	52.21	50.18	3.83	ppb
Silicon	28-1	53.23	52.52	54.40	53.38	1.78	ppb
Silver	107-1	53.11	54.00	53.96	53.69	0.94	ppb
Silver	109-1	52.19	52.80	53.52	52.84	1.26	ppb
Sodium	23-2	4801.99	4839.26	4844.73	4828.66	0.48	ppb
Strontium	86-1	1173.05	1196.92	1194.24	1188.07	1.10	ppb
Strontium	88-1	1168.54	1209.84	1191.46	1189.95	1.74	ppb
Sulfur	34-1	791.76	810.03	873.48	825.09	5.20	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	43.32	44.33	44.53	44.06	1.47	ppb
Thallium	205-1	42.78	43.88	44.15	43.60	1.66	ppb
Tin	118-1	49.37	50.33	50.11	49.94	1.00	ppb
Titanium	47-1	482.67	481.89	490.15	484.91	0.94	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	40.42	41.13	41.58	41.04	1.43	ppb
Vanadium	51-2	49.06	48.45	49.95	49.15	1.53	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	489.39	484.75	487.53	487.22	0.48	ppb
Zirconium	90-1	46.77	48.28	48.35	47.80	1.87	ppb
Zirconium	91-1	47.04	48.23	48.31	47.86	1.49	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2400.10	2451.28	2449.61	2433.66	1.19	ppb
Antimony	121-1	122.33	127.99	127.31	125.88	2.46	ppb
Arsenic	75-2	129.88	126.60	127.47	127.98	1.33	ppb
Barium	135-1	624.83	622.65	655.88	634.45	2.93	ppb
Barium	137-1	622.30	650.79	654.29	642.46	2.73	ppb
Beryllium	9-1	132.36	133.76	135.27	133.80	1.09	ppb
Bismuth	209-1				105		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	129.59	137.82	134.60	134.01	3.09	ppb
Cadmium	106-1	131.61	138.09	137.17	135.62	2.59	ppb
Cadmium	111-1	129.61	133.69	133.40	132.23	1.72	ppb
Calcium	43-1	12339.69	12959.51	13158.05	12819.08	3.33	ppb
Calcium	44-1	11837.30	12278.43	12414.55	12176.76	2.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	124.49	126.35	127.07	125.97	1.06	ppb
Cobalt	59-2	124.64	125.59	125.71	125.31	0.47	ppb
Copper	63-2	1278.07	1277.26	1296.42	1283.92	0.84	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				102		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	6351.16	6330.82	6462.34	6381.44	1.11	ppb
Iron	57-2	6475.89	6552.85	6584.99	6537.91	0.86	ppb
Iron	54-2	6314.30	6395.71	6668.70	6459.57	2.87	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	589.85	610.14	614.20	604.73	2.16	ppb
Lead	207-1	591.66	610.07	614.40	605.37	1.99	ppb
Lead	208-1	593.69	610.96	615.29	606.65	1.88	ppb
Lithium	6-1				107		%
Magnesium	24-2	11942.10	12132.25	12222.04	12098.80	1.18	ppb
Manganese	55-2	1221.70	1241.70	1248.58	1237.33	1.13	ppb
Molybdenum	94-1	1205.02	1250.70	1249.98	1235.24	2.12	ppb
Molybdenum	95-1	1215.89	1253.34	1244.29	1237.84	1.58	ppb
Molybdenum	96-1	1214.78	1253.34	1234.46	1234.19	1.56	ppb
Molybdenum	97-1	1217.23	1257.38	1251.87	1242.16	1.75	ppb
Molybdenum	98-1	1209.28	1256.55	1258.45	1241.42	2.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	128.79	129.49	129.76	129.35	0.39	ppb
Phosphorus	31-2	2492.99	2486.73	2580.55	2520.09	2.08	ppb
Potassium	39-2	6054.19	6038.91	6152.31	6081.80	1.01	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	125.80	130.82	130.74	129.12	2.22	ppb
Selenium	77-2	129.30	133.64	132.24	131.73	1.68	ppb
Selenium	78-2	131.48	126.59	127.16	128.41	2.08	ppb
Silicon	28-1	127.15	134.44	133.56	131.72	3.02	ppb
Silver	107-1	134.80	139.01	136.59	136.80	1.55	ppb
Silver	109-1	129.56	134.30	134.85	132.90	2.19	ppb
Sodium	23-2	12267.87	12459.55	12514.21	12413.88	1.04	ppb
Strontium	86-1	2996.28	3072.19	3062.02	3043.50	1.35	ppb
Strontium	88-1	3038.97	3127.20	3134.69	3100.29	1.72	ppb
Sulfur	34-1	2072.49	2323.61	2381.50	2259.20	7.27	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	111.13	113.60	116.74	113.82	2.47	ppb
Thallium	205-1	118.91	122.05	121.99	120.98	1.48	ppb
Tin	118-1	123.35	127.52	128.47	126.45	2.15	ppb
Titanium	47-1	1208.09	1244.25	1260.29	1237.54	2.16	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	113.46	117.07	119.39	116.64	2.56	ppb
Vanadium	51-2	123.08	124.80	125.54	124.48	1.01	ppb
Yttrium	89-1				98		%
Yttrium	89-2				97		%
Zinc	66-2	1237.31	1250.69	1255.51	1247.84	0.76	ppb
Zirconium	90-1	121.83	126.26	125.77	124.62	1.95	ppb
Zirconium	91-1	121.26	125.18	125.38	123.94	1.88	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4873.68	5064.21	4784.72	4907.53	2.91	ppb
Antimony	121-1	252.84	260.61	258.25	257.23	1.55	ppb
Arsenic	75-2	253.32	253.25	250.64	252.40	0.61	ppb
Barium	135-1	1255.34	1302.29	1238.85	1265.49	2.60	ppb
Barium	137-1	1253.88	1278.07	1257.84	1263.26	1.03	ppb
Beryllium	9-1	262.39	263.42	259.40	261.73	0.80	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	259.44	266.76	264.95	263.72	1.45	ppb
Cadmium	106-1	261.54	264.38	260.04	261.98	0.84	ppb
Cadmium	111-1	253.06	261.66	255.45	256.72	1.73	ppb
Calcium	43-1	25716.77	25758.34	26063.31	25846.14	0.73	ppb
Calcium	44-1	24434.06	24502.73	24998.76	24645.18	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	253.67	254.44	253.23	253.78	0.24	ppb
Cobalt	59-2	253.40	255.89	249.34	252.88	1.31	ppb
Copper	63-2	2556.50	2611.76	2529.23	2565.83	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				101		%
Holmium	165-2				101		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	56-2	12788.15	13007.61	12698.35	12831.37	1.24	ppb
Iron	57-2	13205.69	13344.20	13088.35	13212.75	0.97	ppb
Iron	54-2	13061.41	13186.93	13222.53	13156.96	0.64	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1205.09	1221.66	1233.18	1219.98	1.16	ppb
Lead	207-1	1220.42	1221.65	1234.87	1225.65	0.65	ppb
Lead	208-1	1217.67	1228.19	1230.03	1225.30	0.54	ppb
Lithium	6-1				108		%
Magnesium	24-2	24645.24	24944.02	24341.28	24643.51	1.22	ppb
Manganese	55-2	2514.95	2557.04	2490.28	2520.76	1.34	ppb
Molybdenum	94-1	2455.56	2500.25	2517.01	2490.94	1.28	ppb
Molybdenum	95-1	2445.24	2473.21	2511.97	2476.81	1.35	ppb
Molybdenum	96-1	2450.53	2479.32	2531.63	2487.16	1.65	ppb
Molybdenum	97-1	2464.28	2514.76	2533.18	2504.07	1.42	ppb
Molybdenum	98-1	2454.86	2483.38	2504.91	2481.05	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	259.09	262.52	257.32	259.64	1.02	ppb
Phosphorus	31-2	5076.43	5089.36	4993.07	5052.95	1.03	ppb
Potassium	39-2	12180.46	12151.93	11854.49	12062.29	1.50	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				89		%
Scandium	45-2				90		%
Selenium	82-1	251.47	254.29	257.17	254.31	1.12	ppb
Selenium	77-2	264.26	241.05	250.97	252.09	4.62	ppb
Selenium	78-2	257.10	255.75	253.80	255.55	0.65	ppb
Silicon	28-1	258.20	259.41	261.96	259.86	0.74	ppb
Silver	107-1	263.99	266.25	266.74	265.66	0.55	ppb
Silver	109-1	264.19	264.74	261.23	263.39	0.72	ppb
Sodium	23-2	25469.34	25734.55	24975.33	25393.08	1.52	ppb
Strontium	86-1	6024.16	6077.54	6199.78	6100.49	1.48	ppb
Strontium	88-1	6132.21	6259.53	6249.62	6213.79	1.14	ppb
Sulfur	34-1	4834.69	4702.15	4824.53	4787.12	1.54	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	247.80	245.11	246.83	246.58	0.55	ppb
Thallium	205-1	247.06	242.42	249.55	246.35	1.47	ppb
Tin	118-1	253.73	257.78	256.54	256.01	0.81	ppb
Titanium	47-1	2476.00	2481.10	2504.08	2487.06	0.60	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	235.87	239.35	241.77	239.00	1.24	ppb
Vanadium	51-2	249.36	252.31	250.56	250.74	0.59	ppb
Yttrium	89-1				93		%
Yttrium	89-2				93		%
Zinc	66-2	2566.77	2582.74	2533.82	2561.11	0.97	ppb
Zirconium	90-1	247.05	249.23	253.17	249.82	1.24	ppb
Zirconium	91-1	243.66	247.49	250.83	247.33	1.45	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9847.87	9769.65	9871.19	9829.57	0.54	ppb
Antimony	121-1	499.66	505.37	510.49	505.17	1.07	ppb
Arsenic	75-2	507.48	502.93	505.80	505.40	0.46	ppb
Barium	135-1	2449.94	2497.38	2535.15	2494.16	1.71	ppb
Barium	137-1	2457.71	2476.15	2507.47	2480.44	1.01	ppb
Beryllium	9-1	505.71	512.39	496.71	504.94	1.56	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	507.55	505.73	514.33	509.21	0.89	ppb
Cadmium	106-1	502.21	509.38	506.26	505.95	0.71	ppb
Cadmium	111-1	494.22	496.67	505.19	498.69	1.15	ppb
Calcium	43-1	51474.77	51698.68	51802.87	51658.77	0.32	ppb
Calcium	44-1	49328.13	49630.35	49407.00	49455.16	0.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	496.61	508.03	498.82	501.15	1.21	ppb
Cobalt	59-2	508.58	508.33	506.82	507.91	0.19	ppb
Copper	63-2	5094.00	5047.25	5066.34	5069.20	0.46	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				102		%
Indium	115-1				92		%
Indium	115-2				91		%
Iron	56-2	25787.88	25914.39	25952.78	25885.02	0.33	ppb
Iron	57-2	25425.00	26031.63	25233.07	25563.23	1.63	ppb
Iron	54-2	26016.74	26272.98	26201.82	26163.85	0.51	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2433.52	2490.08	2457.21	2460.27	1.15	ppb
Lead	207-1	2459.76	2465.98	2459.83	2461.85	0.15	ppb
Lead	208-1	2451.46	2459.08	2464.34	2458.29	0.26	ppb
Lithium	6-1				109		%
Magnesium	24-2	49277.89	49292.91	48862.54	49144.45	0.50	ppb
Manganese	55-2	5061.41	5034.68	5110.72	5068.93	0.76	ppb
Molybdenum	94-1	4903.47	4951.18	4981.15	4945.27	0.79	ppb
Molybdenum	95-1	4909.82	4933.36	4994.03	4945.74	0.88	ppb
Molybdenum	96-1	4941.81	4939.96	4980.53	4954.10	0.46	ppb
Molybdenum	97-1	4908.63	4910.13	5009.19	4942.65	1.17	ppb
Molybdenum	98-1	4971.79	4930.80	5014.37	4972.32	0.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	509.23	511.30	508.06	509.53	0.32	ppb
Phosphorus	31-2	9934.08	10045.72	9940.29	9973.36	0.63	ppb
Potassium	39-2	24222.20	24053.84	24092.97	24123.00	0.37	ppb
Rhodium	103-1				88		%
Rhodium	103-2				91		%
Scandium	45-1				85		%
Scandium	45-2				89		%
Selenium	82-1	498.91	502.77	504.40	502.03	0.56	ppb
Selenium	77-2	505.10	493.04	499.74	499.29	1.21	ppb
Selenium	78-2	524.60	511.64	505.85	514.03	1.87	ppb
Silicon	28-1	513.45	512.40	510.98	512.28	0.24	ppb
Silver	107-1	503.98	504.28	508.68	505.65	0.52	ppb
Silver	109-1	505.14	509.91	510.27	508.44	0.56	ppb
Sodium	23-2	50898.95	50568.90	50158.24	50542.03	0.73	ppb
Strontium	86-1	12246.80	12238.46	12359.31	12281.53	0.55	ppb
Strontium	88-1	12206.58	12324.65	12545.13	12358.79	1.39	ppb
Sulfur	34-1	9837.12	9895.63	9754.06	9828.94	0.72	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	490.04	489.21	494.38	491.21	0.57	ppb
Thallium	205-1	488.70	493.06	488.99	490.25	0.50	ppb
Tin	118-1	496.62	505.79	508.99	503.80	1.28	ppb
Titanium	47-1	4928.36	4958.53	4946.46	4944.45	0.31	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	485.78	487.59	489.58	487.65	0.39	ppb
Vanadium	51-2	495.51	511.54	499.72	502.26	1.66	ppb
Yttrium	89-1				91		%
Yttrium	89-2				92		%
Zinc	66-2	5070.74	5096.91	5074.11	5080.59	0.28	ppb
Zirconium	90-1	489.12	493.85	497.19	493.39	0.82	ppb
Zirconium	91-1	491.17	494.15	504.03	496.45	1.36	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19828.33	19813.50	19513.05	19718.29	0.90	ppb
Antimony	121-1	989.76	998.41	998.38	995.52	0.50	ppb
Arsenic	75-2	997.54	991.60	999.74	996.29	0.42	ppb
Barium	135-1	4985.63	5019.34	4989.69	4998.22	0.37	ppb
Barium	137-1	4964.45	5034.27	5015.15	5004.62	0.72	ppb
Beryllium	9-1	980.37	1004.40	995.07	993.28	1.22	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	971.37	1001.61	999.14	990.70	1.69	ppb
Cadmium	106-1	992.32	988.59	996.35	992.42	0.39	ppb
Cadmium	111-1	995.36	992.82	1005.62	997.93	0.68	ppb
Calcium	43-1	99541.83	100104.45	98663.71	99436.66	0.73	ppb
Calcium	44-1	98995.24	99685.48	99077.22	99252.65	0.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1006.93	997.47	990.78	998.39	0.81	ppb
Cobalt	59-2	998.62	990.09	997.24	995.32	0.46	ppb
Copper	63-2	9914.24	10041.10	9877.70	9944.35	0.86	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				102		%
Indium	115-1				91		%
Indium	115-2				90		%
Iron	56-2	51150.15	50855.49	50751.34	50918.99	0.41	ppb
Iron	57-2	50650.95	50409.58	50657.18	50572.57	0.28	ppb
Iron	54-2	51967.45	51562.26	51154.99	51561.57	0.79	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5022.00	5017.82	5052.31	5030.71	0.37	ppb
Lead	207-1	5030.48	5000.43	5056.64	5029.18	0.56	ppb
Lead	208-1	5021.79	5017.43	5051.50	5030.24	0.37	ppb
Lithium	6-1				108		%
Magnesium	24-2	98001.10	97924.69	97101.91	97675.90	0.51	ppb
Manganese	55-2	10018.85	9939.36	9930.08	9962.77	0.49	ppb
Molybdenum	94-1	10096.98	10002.59	9997.29	10032.29	0.56	ppb
Molybdenum	95-1	10060.49	10028.42	10016.87	10035.26	0.23	ppb
Molybdenum	96-1	10079.44	9986.65	10021.01	10029.03	0.47	ppb
Molybdenum	97-1	10096.94	9978.95	10013.17	10029.69	0.61	ppb
Molybdenum	98-1	10115.54	9944.30	10001.74	10020.53	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	990.67	994.81	991.22	992.23	0.23	ppb
Phosphorus	31-2	20050.08	19953.05	19990.80	19997.98	0.24	ppb
Potassium	39-2	48499.91	48274.00	48135.80	48303.24	0.38	ppb
Rhodium	103-1				86		%
Rhodium	103-2				89		%
Scandium	45-1				85		%
Scandium	45-2				90		%
Selenium	82-1	1007.15	993.52	991.50	997.39	0.85	ppb
Selenium	77-2	1006.58	979.37	1011.20	999.05	1.72	ppb
Selenium	78-2	1009.05	970.30	994.12	991.16	1.97	ppb
Silicon	28-1	1001.43	985.21	984.71	990.45	0.96	ppb
Silver	107-1	986.36	995.40	993.04	991.60	0.47	ppb
Silver	109-1	983.11	990.39	1000.41	991.30	0.88	ppb
Sodium	23-2	100917.01	100991.06	99357.92	100422.00	0.92	ppb
Strontium	86-1	25419.25	25126.37	24934.06	25159.90	0.97	ppb
Strontium	88-1	25219.86	25043.31	24994.08	25085.75	0.47	ppb
Sulfur	34-1	20200.66	20137.24	20194.89	20177.60	0.17	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	1010.92	1007.04	1002.87	1006.95	0.40	ppb
Thallium	205-1	1002.65	1012.76	1004.42	1006.61	0.54	ppb
Tin	118-1	980.42	1000.89	1007.94	996.42	1.43	ppb
Titanium	47-1	10021.25	10042.60	10036.12	10033.32	0.11	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1012.47	1012.89	1005.90	1010.42	0.39	ppb
Vanadium	51-2	1001.82	1003.45	991.10	998.79	0.67	ppb
Yttrium	89-1				91		%
Yttrium	89-2				93		%
Zinc	66-2	9979.77	9998.83	9857.42	9945.34	0.77	ppb
Zirconium	90-1	1009.94	1003.79	996.80	1003.51	0.65	ppb
Zirconium	91-1	1014.62	996.63	996.80	1002.68	1.03	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99965.94	100547.14	99727.23	100080.10	0.42	ppb
Antimony	121-1	0.91	0.76	0.67	0.78	15.11	ppb
Arsenic	75-2	0.87	0.88	0.69	0.81	13.09	ppb
Barium	135-1	4.19	3.67	3.40	3.75	10.63	ppb
Barium	137-1	4.35	3.81	3.41	3.86	12.23	ppb
Beryllium	9-1	0.79	0.57	0.55	0.64	21.31	ppb
Bismuth	209-1				90		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.85	0.92	0.69	0.82	14.79	ppb
Cadmium	106-1	1.56	-0.84	0.03	0.25	486.26	ppb
Cadmium	111-1	0.74	0.39	0.36	0.50	42.19	ppb
Calcium	43-1	498337.16	501238.79	500113.49	499896.48	0.29	ppb
Calcium	44-1	497995.89	501892.65	500808.05	500232.20	0.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.60	2.30	2.10	2.33	10.84	ppb
Cobalt	59-2	2.87	2.94	2.87	2.90	1.39	ppb
Copper	63-2	3.27	3.22	3.01	3.17	4.34	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				86		%
Indium	115-2				88		%
Iron	56-2	249321.98	249673.76	250128.19	249707.98	0.16	ppb
Iron	57-2	248933.05	252071.73	248352.07	249785.61	0.80	ppb
Iron	54-2	249173.47	249882.46	249540.17	249532.04	0.14	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	3.08	2.46	2.16	2.57	18.31	ppb
Lead	207-1	3.00	2.40	2.05	2.48	19.38	ppb
Lead	208-1	3.02	2.44	2.09	2.52	18.54	ppb
Lithium	6-1				102		%
Magnesium	24-2	498800.02	500578.35	502364.19	500580.85	0.36	ppb
Manganese	55-2	7.55	7.43	7.12	7.37	3.03	ppb
Molybdenum	94-1	9.62	8.40	7.70	8.57	11.28	ppb
Molybdenum	95-1	6.33	5.23	4.55	5.37	16.76	ppb
Molybdenum	96-1	8.60	7.41	6.69	7.57	12.76	ppb
Molybdenum	97-1	6.40	5.22	4.40	5.34	18.79	ppb
Molybdenum	98-1	6.28	5.12	4.35	5.25	18.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.03	3.54	3.73	3.77	6.50	ppb
Phosphorus	31-2	-15.27	-7.61	-5.60	-9.49		ppb
Potassium	39-2	251345.59	248978.35	251039.02	250454.32	0.51	ppb
Rhodium	103-1				80		%
Rhodium	103-2				84		%
Scandium	45-1				86		%
Scandium	45-2				92		%
Selenium	82-1	1.27	0.81	1.58	1.22	31.74	ppb
Selenium	77-2	0.47	0.12	0.12	0.24	85.91	ppb
Selenium	78-2	-0.64	1.44	-0.99	-0.06		ppb
Silicon	28-1	-2.60	-2.92	-3.02	-2.85		ppb
Silver	107-1	0.61	0.50	0.42	0.51	19.53	ppb
Silver	109-1	0.62	0.49	0.42	0.51	19.85	ppb
Sodium	23-2	496848.83	502375.98	500312.04	499845.62	0.56	ppb
Strontium	86-1	87.63	87.84	87.81	87.76	0.13	ppb
Strontium	88-1	89.11	88.40	86.34	87.95	1.63	ppb
Sulfur	34-1	-640.95	-534.27	-340.39	-505.21		ppb
Terbium	159-1				95		%
Terbium	159-2				97		%
Thallium	203-1	0.64	0.47	0.39	0.50	25.46	ppb
Thallium	205-1	0.60	0.47	0.39	0.48	21.78	ppb
Tin	118-1	0.66	0.49	0.45	0.54	20.33	ppb
Titanium	47-1	5.98	4.75	4.25	4.99	17.77	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.55	0.44	0.36	0.45	21.25	ppb
Vanadium	51-2	0.53	0.49	0.46	0.49	7.63	ppb
Yttrium	89-1				89		%
Yttrium	89-2				92		%
Zinc	66-2	6.12	6.01	5.85	5.99	2.20	ppb
Zirconium	90-1	2.27	2.18	2.08	2.18	4.44	ppb
Zirconium	91-1	2.26	2.14	2.06	2.16	4.76	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	499.37	496.88	494.99	497.08	0.44	ppb
Antimony	121-1	204.07	207.60	210.60	207.42	1.57	ppb
Arsenic	75-2	210.57	213.04	209.62	211.08	0.84	ppb
Barium	135-1	101.01	104.12	103.13	102.76	1.55	ppb
Barium	137-1	101.75	103.42	103.91	103.03	1.10	ppb
Beryllium	9-1	105.41	107.76	105.73	106.30	1.20	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	97.92	96.34	97.75	97.34	0.89	ppb
Cadmium	106-1	92.04	94.89	94.54	93.82	1.65	ppb
Cadmium	111-1	104.39	107.08	108.94	106.80	2.14	ppb
Calcium	43-1	2390.55	2301.43	2223.86	2305.28	3.62	ppb
Calcium	44-1	2402.14	2310.50	2269.51	2327.38	2.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	104.16	102.91	102.24	103.10	0.94	ppb
Cobalt	59-2	103.05	102.67	102.69	102.80	0.21	ppb
Copper	63-2	107.34	107.82	106.08	107.08	0.84	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				100		%
Indium	115-2				98		%
Iron	56-2	2123.14	2139.94	2113.88	2125.65	0.62	ppb
Iron	57-2	2176.57	2182.58	2153.27	2170.81	0.71	ppb
Iron	54-2	2289.21	2297.71	2261.21	2282.71	0.84	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	192.38	192.23	194.28	192.97	0.59	ppb
Lead	207-1	181.06	179.84	183.31	181.40	0.97	ppb
Lead	208-1	194.79	193.59	195.74	194.71	0.55	ppb
Lithium	6-1				113		%
Magnesium	24-2	1185.88	1175.38	1154.71	1171.99	1.35	ppb
Manganese	55-2	102.37	101.69	102.36	102.14	0.38	ppb
Molybdenum	94-1	1.16	0.71	0.51	0.79	42.06	ppb
Molybdenum	95-1	1.17	0.67	0.54	0.80	41.57	ppb
Molybdenum	96-1	1.16	0.73	0.61	0.83	34.62	ppb
Molybdenum	97-1	1.05	0.67	0.58	0.77	32.41	ppb
Molybdenum	98-1	1.16	0.69	0.57	0.80	38.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	108.71	107.32	106.51	107.52	1.04	ppb
Phosphorus	31-2	-12.03	-12.66	-14.91	-13.20		ppb
Potassium	39-2	1982.86	1986.39	1959.79	1976.35	0.73	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	209.02	214.55	215.20	212.92	1.60	ppb
Selenium	77-2	216.62	226.50	215.14	219.42	2.81	ppb
Selenium	78-2	213.73	220.04	212.27	215.35	1.92	ppb
Silicon	28-1	-4.03	-4.02	-4.14	-4.06		ppb
Silver	107-1	49.74	51.19	52.05	51.00	2.29	ppb
Silver	109-1	49.67	50.90	51.12	50.56	1.54	ppb
Sodium	23-2	2050.91	2097.24	2094.47	2080.87	1.25	ppb
Strontium	86-1	8.04	7.66	7.13	7.61	6.02	ppb
Strontium	88-1	8.61	7.37	7.25	7.74	9.72	ppb
Sulfur	34-1	-199.23	-158.65	-247.60	-201.83		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	197.93	197.67	197.26	197.62	0.17	ppb
Thallium	205-1	196.93	197.18	196.84	196.98	0.09	ppb
Tin	118-1	0.12	0.06	0.05	0.08	49.14	ppb
Titanium	47-1	1.05	0.48	0.37	0.64	57.48	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.08	0.04	0.03	0.05	59.69	ppb
Vanadium	51-2	100.08	99.56	98.49	99.38	0.82	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	206.50	204.07	202.55	204.38	0.98	ppb
Zirconium	90-1	0.13	0.07	0.06	0.08	44.09	ppb
Zirconium	91-1	0.15	0.12	0.09	0.12	23.08	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.10	1.07	0.90	1.03	10.70	ppb
Antimony	121-1	0.16	0.13	0.12	0.14	15.95	ppb
Arsenic	75-2	0.03	0.04	0.05	0.04	22.46	ppb
Barium	135-1	0.05	0.06	0.05	0.05	9.40	ppb
Barium	137-1	0.05	0.05	0.03	0.05	24.83	ppb
Beryllium	9-1	0.13	0.07	0.08	0.09	33.37	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	0.02	-0.04	0.00		ppb
Cadmium	106-1	-0.33	-0.81	0.22	-0.31		ppb
Cadmium	111-1	0.05	-0.01	0.06	0.03	110.08	ppb
Calcium	43-1	6.90	3.41	4.56	4.95	35.87	ppb
Calcium	44-1	6.59	5.22	3.29	5.03	32.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.04	0.01	0.02	49.48	ppb
Cobalt	59-2	0.03	0.01	0.02	0.02	46.21	ppb
Copper	63-2	0.00	-0.03	0.02	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				102		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	3.95	3.38	3.14	3.49	11.84	ppb
Iron	57-2	0.38	0.70	0.99	0.69	43.65	ppb
Iron	54-2	4.32	3.53	3.84	3.90	10.15	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.17	0.15	0.12	0.14	18.87	ppb
Lead	207-1	0.14	0.14	0.11	0.13	11.98	ppb
Lead	208-1	0.16	0.14	0.12	0.14	13.79	ppb
Lithium	6-1				112		%
Magnesium	24-2	5.42	4.36	4.58	4.78	11.69	ppb
Manganese	55-2	0.05	0.02	0.02	0.03	51.25	ppb
Molybdenum	94-1	0.07	0.07	0.07	0.07	6.28	ppb
Molybdenum	95-1	0.08	0.06	0.06	0.07	18.94	ppb
Molybdenum	96-1	0.08	0.06	0.06	0.07	14.03	ppb
Molybdenum	97-1	0.07	0.05	0.06	0.06	11.36	ppb
Molybdenum	98-1	0.07	0.06	0.06	0.06	15.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.37	-0.26	-0.18	-0.27		ppb
Phosphorus	31-2	-17.01	-13.70	-15.79	-15.50		ppb
Potassium	39-2	-2.59	-1.82	-1.96	-2.13		ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	-0.54	-0.19	-0.02	-0.25		ppb
Selenium	77-2	-0.05	-0.05	0.11	0.00		ppb
Selenium	78-2	0.28	0.30	-1.57	-0.33		ppb
Silicon	28-1	-3.94	-4.02	-4.10	-4.02		ppb
Silver	107-1	0.05	0.04	0.03	0.04	18.93	ppb
Silver	109-1	0.05	0.04	0.03	0.04	21.67	ppb
Sodium	23-2	28.83	28.06	28.32	28.41	1.37	ppb
Strontium	86-1	-0.04	0.04	-0.27	-0.09		ppb
Strontium	88-1	0.03	0.06	0.05	0.05	28.65	ppb
Sulfur	34-1	-220.07	-243.35	-259.45	-240.96		ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.10	0.07	0.05	0.08	31.99	ppb
Thallium	205-1	0.09	0.07	0.06	0.07	26.91	ppb
Tin	118-1	0.02	0.01	0.00	0.01	105.23	ppb
Titanium	47-1	0.03	0.04	0.03	0.03	23.58	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	56.86	ppb
Vanadium	51-2	0.01	0.02	0.02	0.02	27.92	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	0.17	0.05	0.10	0.11	53.84	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	39.63	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	47.75	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88590.01	87943.01	87787.57	88106.86	0.48	ppb
Antimony	121-1	1.05	1.02	1.07	1.04	2.35	ppb
Arsenic	75-2	0.34	0.32	0.33	0.33	2.82	ppb
Barium	135-1	1.32	1.31	1.34	1.32	1.42	ppb
Barium	137-1	1.37	1.37	1.32	1.35	1.98	ppb
Beryllium	9-1	0.30	0.33	0.27	0.30	10.25	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.49	7.70	8.66	8.29	6.16	ppb
Cadmium	106-1	-1.56	-2.59	-2.46	-2.20		ppb
Cadmium	111-1	0.19	0.26	0.15	0.20	27.69	ppb
Calcium	43-1	94535.36	96761.71	94802.55	95366.54	1.27	ppb
Calcium	44-1	93815.69	96829.30	95479.24	95374.74	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.45	19.23	19.32	19.33	0.57	ppb
Cobalt	59-2	1.25	1.21	1.21	1.22	1.80	ppb
Copper	63-2	7.31	7.38	7.38	7.36	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				102		%
Holmium	165-2				102		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	56-2	101574.69	100380.62	101700.73	101218.68	0.72	ppb
Iron	57-2	100520.95	98313.72	98863.58	99232.75	1.16	ppb
Iron	54-2	102082.48	100918.32	100249.32	101083.37	0.92	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.88	4.73	4.71	4.77	1.91	ppb
Lead	207-1	4.31	4.18	4.14	4.21	2.15	ppb
Lead	208-1	4.55	4.39	4.35	4.43	2.44	ppb
Lithium	6-1				110		%
Magnesium	24-2	89825.46	89279.91	88639.28	89248.22	0.67	ppb
Manganese	55-2	7.76	7.64	7.60	7.66	1.08	ppb
Molybdenum	94-1	1525.45	1550.03	1551.05	1542.18	0.94	ppb
Molybdenum	95-1	1872.96	1914.61	1890.51	1892.69	1.10	ppb
Molybdenum	96-1	1834.12	1888.56	1848.05	1856.91	1.52	ppb
Molybdenum	97-1	1839.46	1899.93	1888.04	1875.81	1.71	ppb
Molybdenum	98-1	1852.81	1922.21	1873.63	1882.88	1.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.52	4.40	4.64	4.52	2.69	ppb
Phosphorus	31-2	101024.71	99381.10	99816.46	100074.09	0.85	ppb
Potassium	39-2	94887.22	93544.28	94066.50	94166.00	0.72	ppb
Rhodium	103-1				88		%
Rhodium	103-2				91		%
Scandium	45-1				89		%
Scandium	45-2				93		%
Selenium	82-1	-0.08	0.45	0.19	0.19	142.43	ppb
Selenium	77-2	0.11	0.27	-0.05	0.11	147.53	ppb
Selenium	78-2	-1.38	-1.13	-0.53	-1.01		ppb
Silicon	28-1	-3.96	-3.73	-3.71	-3.80		ppb
Silver	107-1	0.05	0.04	0.03	0.04	28.85	ppb
Silver	109-1	0.05	0.04	0.04	0.05	17.37	ppb
Sodium	23-2	97402.41	95592.71	96691.90	96562.34	0.94	ppb
Strontium	86-1	751.62	780.15	759.87	763.88	1.92	ppb
Strontium	88-1	756.56	774.78	773.81	768.38	1.33	ppb
Sulfur	34-1	102506.19	102729.78	102232.48	102489.48	0.24	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.17	0.16	0.16	0.16	4.35	ppb
Thallium	205-1	0.16	0.17	0.15	0.16	4.97	ppb
Tin	118-1	0.42	0.41	0.36	0.40	8.22	ppb
Titanium	47-1	1910.00	1988.34	1972.76	1957.03	2.12	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.02	0.01	0.01	9.75	ppb
Vanadium	51-2	0.20	0.21	0.21	0.21	3.57	ppb
Yttrium	89-1				93		%
Yttrium	89-2				96		%
Zinc	66-2	10.51	10.46	10.87	10.61	2.09	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	25.99	ppb
Zirconium	91-1	0.02	0.00	0.02	0.02	61.33	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88934.77	89745.23	89204.94	89294.98	0.46	ppb
Antimony	121-1	20.27	20.18	20.06	20.17	0.52	ppb
Arsenic	75-2	20.08	19.91	20.47	20.15	1.44	ppb
Barium	135-1	21.03	21.16	20.47	20.89	1.75	ppb
Barium	137-1	21.07	21.37	20.71	21.05	1.56	ppb
Beryllium	9-1	19.63	19.77	20.12	19.84	1.27	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	24.73	25.79	24.96	25.16	2.22	ppb
Cadmium	106-1	14.91	14.23	13.71	14.28	4.22	ppb
Cadmium	111-1	19.58	19.01	18.90	19.17	1.91	ppb
Calcium	43-1	97613.64	99425.99	99527.54	98855.72	1.09	ppb
Calcium	44-1	97944.50	98357.52	98792.34	98364.79	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.64	39.35	39.32	39.10	1.03	ppb
Cobalt	59-2	20.54	21.03	20.79	20.79	1.16	ppb
Copper	63-2	26.64	27.24	27.16	27.01	1.20	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				104		%
Holmium	165-2				104		%
Indium	115-1				96		%
Indium	115-2				96		%
Iron	56-2	101158.58	102593.12	103789.07	102513.59	1.28	ppb
Iron	57-2	100681.47	102466.89	101922.61	101690.32	0.90	ppb
Iron	54-2	101572.52	104354.15	102782.31	102902.99	1.36	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	23.66	23.90	23.86	23.81	0.55	ppb
Lead	207-1	22.18	22.42	22.49	22.36	0.73	ppb
Lead	208-1	22.54	22.83	22.94	22.77	0.92	ppb
Lithium	6-1				108		%
Magnesium	24-2	89940.66	90603.39	89442.73	89995.59	0.65	ppb
Manganese	55-2	27.32	27.54	27.47	27.44	0.41	ppb
Molybdenum	94-1	1555.80	1550.03	1595.93	1567.25	1.60	ppb
Molybdenum	95-1	1894.38	1893.40	1948.11	1911.96	1.64	ppb
Molybdenum	96-1	1836.86	1861.47	1919.14	1872.49	2.26	ppb
Molybdenum	97-1	1891.60	1912.83	1946.82	1917.09	1.45	ppb
Molybdenum	98-1	1885.04	1902.74	1973.41	1920.40	2.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.59	24.63	24.31	24.18	2.20	ppb
Phosphorus	31-2	100572.28	100224.02	101042.44	100612.91	0.41	ppb
Potassium	39-2	96159.54	97300.19	95376.84	96278.86	1.00	ppb
Rhodium	103-1				90		%
Rhodium	103-2				93		%
Scandium	45-1				90		%
Scandium	45-2				94		%
Selenium	82-1	19.63	18.25	20.09	19.32	4.96	ppb
Selenium	77-2	18.77	20.83	18.10	19.23	7.42	ppb
Selenium	78-2	18.34	18.09	19.37	18.60	3.63	ppb
Silicon	28-1	-3.34	-3.14	-3.12	-3.20		ppb
Silver	107-1	18.51	19.01	18.62	18.71	1.42	ppb
Silver	109-1	18.64	18.74	18.28	18.55	1.30	ppb
Sodium	23-2	97731.43	98743.51	97516.10	97997.01	0.67	ppb
Strontium	86-1	777.53	772.05	803.28	784.29	2.13	ppb
Strontium	88-1	778.98	778.92	801.28	786.39	1.64	ppb
Sulfur	34-1	104483.99	105196.73	103247.17	104309.30	0.95	ppb
Terbium	159-1				102		%
Terbium	159-2				104		%
Thallium	203-1	18.30	18.76	18.67	18.57	1.30	ppb
Thallium	205-1	18.24	18.57	18.66	18.49	1.22	ppb
Tin	118-1	0.21	0.20	0.18	0.20	7.51	ppb
Titanium	47-1	1967.68	2061.73	2013.43	2014.28	2.33	ppb

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On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	3.33	ppb
Vanadium	51-2	19.68	19.53	19.47	19.56	0.56	ppb
Yttrium	89-1				96		%
Yttrium	89-2				97		%
Zinc	66-2	30.57	30.06	30.20	30.28	0.88	ppb
Zirconium	90-1	0.04	0.02	0.01	0.02	49.36	ppb
Zirconium	91-1	0.03	0.02	0.01	0.02	35.09	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49628.27	49536.46	49441.63	49535.45	0.19	ppb
Antimony	121-1	469.52	497.71	502.10	489.78	3.61	ppb
Arsenic	75-2	507.54	517.42	514.31	513.09	0.99	ppb
Barium	135-1	2434.45	2527.35	2548.58	2503.46	2.42	ppb
Barium	137-1	2413.04	2511.09	2569.07	2497.74	3.16	ppb
Beryllium	9-1	479.14	490.91	486.10	485.38	1.22	ppb
Bismuth	209-1				101		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	475.68	500.52	514.30	496.83	3.94	ppb
Cadmium	106-1	485.88	498.83	514.78	499.83	2.90	ppb
Cadmium	111-1	469.81	489.01	499.60	486.14	3.11	ppb
Calcium	43-1	236097.26	250521.99	247262.85	244627.37	3.09	ppb
Calcium	44-1	238692.46	251958.97	249622.38	246757.94	2.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	509.58	507.52	507.84	508.32	0.22	ppb
Cobalt	59-2	512.46	515.49	513.82	513.92	0.29	ppb
Copper	63-2	5034.28	5045.04	4995.08	5024.80	0.52	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				105		%
Holmium	165-2				102		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	56-2	128867.44	129320.33	127870.70	128686.16	0.58	ppb
Iron	57-2	127633.07	128784.07	126461.44	127626.19	0.91	ppb
Iron	54-2	128712.26	129789.57	127897.72	128799.85	0.74	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2449.85	2540.23	2593.86	2527.98	2.88	ppb
Lead	207-1	2432.91	2538.36	2589.94	2520.40	3.18	ppb
Lead	208-1	2439.51	2554.59	2591.56	2528.55	3.14	ppb
Lithium	6-1				107		%
Magnesium	24-2	251993.98	249821.04	252028.29	251281.10	0.50	ppb
Manganese	55-2	5010.51	5015.12	4949.21	4991.61	0.74	ppb
Molybdenum	94-1	4812.47	5045.72	5052.07	4970.09	2.75	ppb
Molybdenum	95-1	4809.19	5068.99	5044.15	4974.11	2.88	ppb
Molybdenum	96-1	4838.02	5032.01	5077.59	4982.54	2.55	ppb
Molybdenum	97-1	4850.65	5001.82	5057.78	4970.08	2.16	ppb
Molybdenum	98-1	4851.32	4998.21	5080.30	4976.61	2.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	500.30	503.70	498.63	500.88	0.52	ppb
Phosphorus	31-2	9958.27	9979.95	9875.67	9937.96	0.55	ppb
Potassium	39-2	123684.39	124002.32	123931.18	123872.63	0.13	ppb
Rhodium	103-1				89		%
Rhodium	103-2				88		%
Scandium	45-1				92		%
Scandium	45-2				93		%
Selenium	82-1	473.73	498.27	504.59	492.20	3.31	ppb
Selenium	77-2	490.34	498.29	499.02	495.88	0.97	ppb
Selenium	78-2	495.37	506.19	493.33	498.30	1.39	ppb
Silicon	28-1	496.39	514.82	512.22	507.81	1.96	ppb
Silver	107-1	469.53	489.62	491.96	483.70	2.55	ppb
Silver	109-1	464.93	490.67	498.22	484.61	3.60	ppb
Sodium	23-2	253050.88	254308.11	252809.67	253389.56	0.32	ppb
Strontium	86-1	12151.34	12678.64	12712.05	12514.01	2.51	ppb
Strontium	88-1	12134.97	12649.37	12710.77	12498.37	2.53	ppb
Sulfur	34-1	8818.34	9439.99	9404.46	9220.93	3.79	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	495.99	512.05	516.25	508.10	2.10	ppb
Thallium	205-1	493.05	509.77	521.67	508.16	2.83	ppb
Tin	118-1	478.31	500.83	504.26	494.47	2.85	ppb
Titanium	47-1	4751.95	4933.32	4924.96	4870.08	2.10	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	497.23	523.77	523.32	514.77	2.95	ppb
Vanadium	51-2	510.94	515.50	501.35	509.26	1.42	ppb
Yttrium	89-1				96		%
Yttrium	89-2				95		%
Zinc	66-2	4908.58	4944.64	4883.89	4912.37	0.62	ppb
Zirconium	90-1	485.78	512.52	511.92	503.41	3.03	ppb
Zirconium	91-1	484.47	509.99	510.85	501.77	2.99	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.72	7.89	7.47	8.03	7.97	ppb
Antimony	121-1	0.07	0.06	0.05	0.06	16.24	ppb
Arsenic	75-2	0.02	0.02	0.00	0.02	62.87	ppb
Barium	135-1	0.17	0.14	0.13	0.15	14.97	ppb
Barium	137-1	0.16	0.14	0.11	0.14	18.85	ppb
Beryllium	9-1	0.12	0.07	0.09	0.09	24.21	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.07	0.03	0.00	0.03	108.55	ppb
Cadmium	106-1	-0.01	-3.33	-1.76	-1.70		ppb
Cadmium	111-1	0.03	-0.21	-0.09	-0.09		ppb
Calcium	43-1	42.26	23.37	21.24	28.95	39.97	ppb
Calcium	44-1	40.29	22.30	18.84	27.14	42.41	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	43.32	ppb
Cobalt	59-2	0.02	0.02	0.01	0.02	26.71	ppb
Copper	63-2	0.12	0.14	0.12	0.13	8.78	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				104		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	12.90	12.65	11.15	12.23	7.76	ppb
Iron	57-2	9.45	10.80	6.84	9.03	22.28	ppb
Iron	54-2	13.49	14.61	12.01	13.37	9.74	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.62	0.23	0.19	0.35	68.37	ppb
Lead	207-1	0.75	0.22	0.23	0.40	75.66	ppb
Lead	208-1	0.74	0.23	0.21	0.39	77.06	ppb
Lithium	6-1				112		%
Magnesium	24-2	16.32	15.71	13.91	15.31	8.20	ppb
Manganese	55-2	0.19	0.19	0.17	0.18	4.72	ppb
Molybdenum	94-1	0.60	0.52	0.42	0.51	18.29	ppb
Molybdenum	95-1	0.60	0.47	0.45	0.50	16.55	ppb
Molybdenum	96-1	0.60	0.48	0.41	0.50	19.04	ppb
Molybdenum	97-1	0.64	0.49	0.42	0.52	21.72	ppb
Molybdenum	98-1	0.61	0.45	0.45	0.50	18.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.26	-0.32	-0.45	-0.34		ppb
Phosphorus	31-2	-15.65	-13.67	-14.17	-14.49		ppb
Potassium	39-2	5.45	5.00	2.01	4.16	45.05	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				93		%
Scandium	45-2				97		%
Selenium	82-1	-0.03	0.17	0.05	0.06	162.14	ppb
Selenium	77-2	-0.05	0.27	-0.05	0.05	345.52	ppb
Selenium	78-2	-1.01	-1.77	-0.46	-1.08		ppb
Silicon	28-1	-4.21	-4.15	-4.21	-4.19		ppb
Silver	107-1	0.06	0.06	0.05	0.05	12.12	ppb
Silver	109-1	0.06	0.05	0.04	0.05	23.49	ppb
Sodium	23-2	49.38	47.98	46.83	48.06	2.66	ppb
Strontium	86-1	0.30	0.57	0.59	0.49	33.74	ppb
Strontium	88-1	1.02	0.74	0.66	0.80	23.43	ppb
Sulfur	34-1	-520.53	-495.04	-512.02	-509.20		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.08	0.08	0.07	0.08	8.34	ppb
Thallium	205-1	0.11	0.07	0.07	0.09	23.38	ppb
Tin	118-1	0.11	0.01	0.03	0.05	116.59	ppb
Titanium	47-1	0.83	0.53	0.37	0.58	40.47	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.09	0.02	0.02	0.04	86.37	ppb
Vanadium	51-2	0.01	0.03	0.03	0.02	34.72	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	0.24	0.35	0.20	0.26	29.24	ppb
Zirconium	90-1	0.05	0.04	0.03	0.04	23.88	ppb
Zirconium	91-1	0.05	0.03	0.02	0.03	44.49	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.44	3.91	3.29	3.88	14.74	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	10.84	ppb
Arsenic	75-2	-0.01	0.00	0.02	0.00	8412.15	ppb
Barium	135-1	0.05	0.06	0.04	0.05	25.58	ppb
Barium	137-1	0.05	0.05	0.05	0.05	6.68	ppb
Beryllium	9-1	0.04	0.03	0.05	0.04	28.62	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.04	-0.04	0.00	-0.03		ppb
Cadmium	106-1	-0.78	-2.26	-0.98	-1.34		ppb
Cadmium	111-1	-0.04	-0.14	-0.05	-0.08		ppb
Calcium	43-1	5.70	10.82	0.53	5.68	90.54	ppb
Calcium	44-1	8.98	7.62	7.25	7.95	11.48	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	129.88	ppb
Copper	63-2	0.00	0.02	-0.01	0.00	283.05	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				105		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	56-2	5.91	5.53	5.00	5.48	8.37	ppb
Iron	57-2	2.28	2.84	2.64	2.59	10.99	ppb
Iron	54-2	5.79	6.02	5.39	5.73	5.56	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.13	0.13	0.14	0.13	5.26	ppb
Lead	207-1	0.11	0.13	0.11	0.12	8.19	ppb
Lead	208-1	0.12	0.12	0.12	0.12	1.98	ppb
Lithium	6-1				111		%
Magnesium	24-2	6.73	6.97	5.92	6.54	8.38	ppb
Manganese	55-2	0.06	0.04	0.04	0.05	28.59	ppb
Molybdenum	94-1	0.22	0.20	0.19	0.20	7.26	ppb
Molybdenum	95-1	0.23	0.21	0.18	0.21	10.37	ppb
Molybdenum	96-1	0.22	0.23	0.17	0.21	15.36	ppb
Molybdenum	97-1	0.23	0.21	0.18	0.21	13.13	ppb
Molybdenum	98-1	0.22	0.21	0.19	0.21	7.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.43	-0.38	-0.40	-0.40		ppb
Phosphorus	31-2	-13.29	-15.54	-12.15	-13.66		ppb
Potassium	39-2	-1.30	-3.29	-1.93	-2.17		ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	-0.33	0.32	0.04	0.01	3161.48	ppb
Selenium	77-2	0.26	-0.05	-0.05	0.05	353.22	ppb
Selenium	78-2	-0.34	0.03	1.47	0.39	248.46	ppb
Silicon	28-1	-4.17	-4.27	-4.22	-4.22		ppb
Silver	107-1	0.02	0.02	0.01	0.02	24.86	ppb
Silver	109-1	0.02	0.02	0.02	0.02	4.84	ppb
Sodium	23-2	31.41	29.73	28.89	30.01	4.28	ppb
Strontium	86-1	0.29	0.19	-0.26	0.07	414.02	ppb
Strontium	88-1	0.32	0.24	0.26	0.27	16.59	ppb
Sulfur	34-1	-445.91	-417.16	-425.99	-429.69		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.05	0.04	0.05	11.32	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	6.35	ppb
Tin	118-1	-0.01	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.23	0.23	0.17	0.21	16.10	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.01	0.01	0.01	11.51	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	47.03	ppb
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	0.16	0.04	0.13	0.11	55.75	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	3.82	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	58.31	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.43	39.49	39.62	39.51	0.25	ppb
Antimony	121-1	3.78	3.88	3.86	3.84	1.36	ppb
Arsenic	75-2	1.98	2.17	2.00	2.05	5.05	ppb
Barium	135-1	19.36	19.46	18.99	19.27	1.28	ppb
Barium	137-1	18.99	18.97	19.09	19.02	0.36	ppb
Beryllium	9-1	1.94	2.00	2.02	1.99	2.02	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.15	2.11	2.32	2.19	4.88	ppb
Cadmium	106-1	1.25	0.86	-0.23	0.63	121.68	ppb
Cadmium	111-1	2.00	1.91	1.89	1.93	3.00	ppb
Calcium	43-1	992.16	1018.51	990.38	1000.35	1.57	ppb
Calcium	44-1	1004.82	1014.27	1021.44	1013.51	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.76	3.82	3.88	3.82	1.59	ppb
Cobalt	59-2	2.01	1.98	2.03	2.01	1.34	ppb
Copper	63-2	4.34	4.38	4.33	4.35	0.59	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				104		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	56-2	421.54	419.34	408.45	416.44	1.68	ppb
Iron	57-2	423.76	428.62	431.03	427.80	0.87	ppb
Iron	54-2	435.80	434.09	432.76	434.22	0.35	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.87	1.91	1.97	1.92	2.63	ppb
Lead	207-1	1.83	1.83	1.87	1.84	1.21	ppb
Lead	208-1	1.84	1.87	1.89	1.87	1.59	ppb
Lithium	6-1				113		%
Magnesium	24-2	918.34	915.36	915.44	916.38	0.18	ppb
Manganese	55-2	2.14	1.95	2.05	2.05	4.58	ppb
Molybdenum	94-1	11.01	11.41	11.05	11.16	1.99	ppb
Molybdenum	95-1	9.43	9.61	9.51	9.52	0.95	ppb
Molybdenum	96-1	9.61	9.85	9.45	9.64	2.12	ppb
Molybdenum	97-1	9.71	10.05	9.68	9.81	2.08	ppb
Molybdenum	98-1	9.38	9.64	9.52	9.52	1.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.75	1.72	1.57	1.68	5.61	ppb
Phosphorus	31-2	32.16	32.86	31.42	32.15	2.24	ppb
Potassium	39-2	1011.92	1026.37	1009.84	1016.05	0.89	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	10.17	10.14	9.56	9.96	3.45	ppb
Selenium	77-2	8.42	9.03	10.56	9.33	11.81	ppb
Selenium	78-2	9.93	10.51	9.00	9.81	7.75	ppb
Silicon	28-1	-2.85	-2.75	-2.69	-2.76		ppb
Silver	107-1	1.97	1.97	2.01	1.98	1.21	ppb
Silver	109-1	1.97	1.96	1.98	1.97	0.59	ppb
Sodium	23-2	990.67	990.66	982.98	988.11	0.45	ppb
Strontium	86-1	45.50	46.18	45.81	45.83	0.74	ppb
Strontium	88-1	44.62	46.50	45.07	45.40	2.16	ppb
Sulfur	34-1	-323.47	-283.75	-277.57	-294.93		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	1.76	1.79	1.79	1.78	1.10	ppb
Thallium	205-1	1.71	1.75	1.77	1.75	1.64	ppb
Tin	118-1	9.51	9.53	9.58	9.54	0.38	ppb
Titanium	47-1	2.37	2.32	2.55	2.42	4.94	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.68	1.66	1.71	1.68	1.31	ppb
Vanadium	51-2	9.91	9.97	9.97	9.95	0.35	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	9.86	10.31	9.97	10.04	2.35	ppb
Zirconium	90-1	1.84	1.91	1.86	1.87	2.04	ppb
Zirconium	91-1	1.81	1.94	1.87	1.87	3.40	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.21	-0.01	0.07	0.09	124.08	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	13.78	ppb
Arsenic	75-2	0.00	0.01	-0.02	0.00		ppb
Barium	135-1	0.01	0.01	0.00	0.01	158.44	ppb
Barium	137-1	0.00	0.01	0.01	0.01	70.27	ppb
Beryllium	9-1	0.04	0.02	0.00	0.02	98.50	ppb
Bismuth	209-1				104		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.02	-0.02	-0.06	-0.02		ppb
Cadmium	106-1	-0.79	-0.38	-0.36	-0.51		ppb
Cadmium	111-1	-0.05	-0.02	-0.02	-0.03		ppb
Calcium	43-1	-2.06	-3.59	-2.71	-2.78		ppb
Calcium	44-1	-0.17	-3.23	-3.27	-2.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	-0.03	-0.01		ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	-0.11	-0.11	-0.06	-0.09		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				104		%
Indium	115-1				99		%
Indium	115-2				101		%
Iron	56-2	0.27	0.18	0.30	0.25	26.44	ppb
Iron	57-2	-0.83	-2.58	-1.82	-1.74		ppb
Iron	54-2	-0.48	0.03	0.44	0.00		ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.06	0.04	0.04	0.05	21.40	ppb
Lead	207-1	0.07	0.06	0.05	0.06	15.53	ppb
Lead	208-1	0.07	0.05	0.05	0.05	18.30	ppb
Lithium	6-1				108		%
Magnesium	24-2	0.71	0.44	0.51	0.55	24.53	ppb
Manganese	55-2	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	94-1	0.05	0.05	0.03	0.04	19.72	ppb
Molybdenum	95-1	0.02	0.03	0.02	0.02	17.59	ppb
Molybdenum	96-1	0.02	0.01	0.03	0.02	38.19	ppb
Molybdenum	97-1	0.02	0.00	0.01	0.01	75.97	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.02	24.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.29	-0.43	-0.30	-0.34		ppb
Phosphorus	31-2	-14.79	-19.72	-18.32	-17.61		ppb
Potassium	39-2	-5.05	-4.90	-4.24	-4.73		ppb
Rhodium	103-1				97		%
Rhodium	103-2				102		%
Scandium	45-1				94		%
Scandium	45-2				98		%
Selenium	82-1	-0.26	0.00	0.35	0.03	1056.33	ppb
Selenium	77-2	-0.05	-0.05	-0.05	-0.05		ppb
Selenium	78-2	-1.32	-0.98	0.64	-0.55		ppb
Silicon	28-1	-2.99	-4.11	-4.34	-3.81		ppb
Silver	107-1	0.02	0.01	0.01	0.01	28.79	ppb
Silver	109-1	0.02	0.01	0.02	0.02	23.50	ppb
Sodium	23-2	15.92	16.20	15.96	16.02	0.94	ppb
Strontium	86-1	0.02	-0.04	0.42	0.13	190.53	ppb
Strontium	88-1	0.03	0.00	0.01	0.02	111.26	ppb
Sulfur	34-1	227.19	-275.13	-318.93	-122.29		ppb
Terbium	159-1				100		%
Terbium	159-2				104		%
Thallium	203-1	0.04	0.04	0.03	0.04	11.78	ppb
Thallium	205-1	0.04	0.03	0.04	0.03	6.99	ppb
Tin	118-1	0.00	-0.01	-0.03	-0.01		ppb
Titanium	47-1	0.01	-0.01	0.01	0.00	956.30	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.01	0.00	0.00	71.75	ppb
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	0.03	-0.01	-0.02	0.00		ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	31.40	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	16.44	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.93	38.68	37.66	38.42	1.76	ppb
Antimony	121-1	3.73	3.83	3.96	3.84	2.95	ppb
Arsenic	75-2	2.14	1.89	2.10	2.04	6.63	ppb
Barium	135-1	19.08	19.00	19.06	19.05	0.23	ppb
Barium	137-1	18.97	19.59	19.32	19.29	1.60	ppb
Beryllium	9-1	2.02	2.02	1.96	2.00	1.52	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.82	2.14	1.94	1.96	8.31	ppb
Cadmium	106-1	1.31	1.40	0.07	0.93	80.07	ppb
Cadmium	111-1	1.96	2.01	1.89	1.95	3.08	ppb
Calcium	43-1	971.76	1021.71	1012.07	1001.85	2.64	ppb
Calcium	44-1	978.23	1015.73	1011.05	1001.67	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.85	3.73	3.79	3.79	1.60	ppb
Cobalt	59-2	1.99	1.96	2.02	1.99	1.43	ppb
Copper	63-2	4.27	4.16	4.36	4.26	2.44	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				104		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	56-2	414.84	412.07	413.56	413.49	0.34	ppb
Iron	57-2	427.12	419.36	411.67	419.38	1.84	ppb
Iron	54-2	428.30	433.44	424.78	428.84	1.02	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.82	1.84	1.89	1.85	2.02	ppb
Lead	207-1	1.77	1.82	1.85	1.82	2.23	ppb
Lead	208-1	1.81	1.83	1.89	1.84	2.32	ppb
Lithium	6-1				110		%
Magnesium	24-2	917.02	909.82	906.77	911.21	0.58	ppb
Manganese	55-2	1.97	2.02	2.00	2.00	1.39	ppb
Molybdenum	94-1	10.96	11.28	11.22	11.16	1.55	ppb
Molybdenum	95-1	9.29	9.67	9.42	9.46	2.04	ppb
Molybdenum	96-1	9.43	9.69	9.64	9.59	1.40	ppb
Molybdenum	97-1	9.43	9.54	9.44	9.47	0.63	ppb
Molybdenum	98-1	9.44	9.56	9.52	9.51	0.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.59	1.71	1.76	1.69	5.39	ppb
Phosphorus	31-2	33.03	30.46	29.41	30.97	6.02	ppb
Potassium	39-2	1017.30	1010.79	1010.44	1012.84	0.38	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	9.70	9.77	10.48	9.98	4.32	ppb
Selenium	77-2	9.69	12.32	8.78	10.26	17.93	ppb
Selenium	78-2	9.49	8.80	8.98	9.09	3.96	ppb
Silicon	28-1	-2.79	-2.34	-2.48	-2.54		ppb
Silver	107-1	1.97	2.06	2.05	2.02	2.46	ppb
Silver	109-1	1.92	2.01	2.01	1.98	2.69	ppb
Sodium	23-2	974.76	977.53	969.34	973.88	0.43	ppb
Strontium	86-1	44.59	45.57	43.25	44.47	2.61	ppb
Strontium	88-1	44.63	45.74	45.71	45.36	1.39	ppb
Sulfur	34-1	-268.37	-133.14	-112.26	-171.26		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	1.73	1.78	1.76	1.76	1.55	ppb
Thallium	205-1	1.72	1.74	1.76	1.74	0.97	ppb
Tin	118-1	9.38	9.66	9.60	9.54	1.54	ppb
Titanium	47-1	2.35	2.36	2.43	2.38	1.92	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.62	1.68	1.69	1.67	2.21	ppb
Vanadium	51-2	9.84	9.88	9.71	9.81	0.92	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	10.02	10.46	9.91	10.13	2.84	ppb
Zirconium	90-1	1.83	1.90	1.90	1.87	2.00	ppb
Zirconium	91-1	1.80	1.85	1.80	1.82	1.55	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	29279.24	29814.99	29360.84	29485.02	0.98	ppb
Antimony	121-1	0.58	0.58	0.61	0.59	2.77	ppb
Arsenic	75-2	152.65	155.12	153.00	153.59	0.87	ppb
Barium	135-1	202.84	209.23	211.29	207.79	2.12	ppb
Barium	137-1	204.77	210.53	212.51	209.27	1.92	ppb
Beryllium	9-1	3.77	3.98	3.99	3.91	3.07	ppb
Bismuth	209-1				113		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	74.26	78.22	76.01	76.17	2.60	ppb
Cadmium	106-1	55.25	54.68	53.96	54.63	1.19	ppb
Cadmium	111-1	1.96	1.70	1.71	1.79	8.28	ppb
Calcium	43-1	26690.88	27391.78	27493.39	27192.01	1.61	ppb
Calcium	44-1	25700.30	26315.16	26456.84	26157.43	1.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1072.07	1072.83	1075.50	1073.46	0.17	ppb
Cobalt	59-2	15.88	16.08	16.17	16.05	0.94	ppb
Copper	63-2	1821.16	1826.71	1826.05	1824.64	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				110		%
Holmium	165-2				109		%
Indium	115-1				103		%
Indium	115-2				101		%
Iron	56-2	60200.34	60763.22	60402.45	60455.34	0.47	ppb
Iron	57-2	59135.98	59457.26	59291.07	59294.77	0.27	ppb
Iron	54-2	60697.74	61424.69	61422.72	61181.72	0.69	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	541.76	555.97	556.73	551.48	1.53	ppb
Lead	207-1	503.35	522.96	515.22	513.84	1.92	ppb
Lead	208-1	517.92	534.06	531.45	527.81	1.64	ppb
Lithium	6-1				123		%
Magnesium	24-2	4928.87	4974.91	4915.68	4939.82	0.63	ppb
Manganese	55-2	2518.15	2558.14	2546.19	2540.83	0.81	ppb
Molybdenum	94-1	3.99	3.98	4.17	4.04	2.63	ppb
Molybdenum	95-1	3.39	3.44	3.49	3.44	1.44	ppb
Molybdenum	96-1	3.82	4.06	4.16	4.01	4.30	ppb
Molybdenum	97-1	3.40	3.44	3.40	3.41	0.69	ppb
Molybdenum	98-1	3.34	3.48	3.46	3.43	2.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	178.33	180.13	178.69	179.05	0.53	ppb
Phosphorus	31-2	1980.90	2011.28	2011.82	2001.33	0.88	ppb
Potassium	39-2	1638.53	1672.51	1652.63	1654.56	1.03	ppb
Rhodium	103-1				102		%
Rhodium	103-2				105		%
Scandium	45-1				100		%
Scandium	45-2				103		%
Selenium	82-1	1.46	1.61	1.55	1.54	5.15	ppb
Selenium	77-2	5.11	5.13	5.91	5.38	8.50	ppb
Selenium	78-2	1.24	0.87	2.30	1.47	50.45	ppb
Silicon	28-1	232.60	242.87	242.23	239.24	2.40	ppb
Silver	107-1	2.57	2.59	2.64	2.60	1.41	ppb
Silver	109-1	2.59	2.56	2.59	2.58	0.78	ppb
Sodium	23-2	4203.02	4222.99	4175.54	4200.52	0.57	ppb
Strontium	86-1	4611.88	4787.42	4869.78	4756.36	2.77	ppb
Strontium	88-1	4741.79	4903.64	4948.81	4864.75	2.24	ppb
Sulfur	34-1	4311.56	4470.13	4380.38	4387.36	1.81	ppb
Terbium	159-1				109		%
Terbium	159-2				108		%
Thallium	203-1	0.35	0.35	0.35	0.35	0.68	ppb
Thallium	205-1	0.35	0.34	0.35	0.35	1.41	ppb
Tin	118-1	1052.11	1091.41	1088.90	1077.47	2.04	ppb
Titanium	47-1	471.78	480.79	489.47	480.68	1.84	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.00	2.10	2.08	2.06	2.47	ppb
Vanadium	51-2	32.82	32.66	32.95	32.81	0.43	ppb
Yttrium	89-1				106		%
Yttrium	89-2				108		%
Zinc	66-2	221.50	226.72	224.20	224.14	1.16	ppb
Zirconium	90-1	0.65	0.66	0.68	0.66	2.21	ppb
Zirconium	91-1	0.70	0.71	0.69	0.70	1.01	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30603.78	30995.49	30680.25	30759.84	0.68	ppb
Antimony	121-1	0.59	0.62	0.62	0.61	2.57	ppb
Arsenic	75-2	162.61	163.03	160.21	161.95	0.94	ppb
Barium	135-1	212.11	213.98	216.19	214.09	0.95	ppb
Barium	137-1	213.28	216.72	217.12	215.71	0.98	ppb
Beryllium	9-1	4.13	4.00	4.08	4.07	1.55	ppb
Bismuth	209-1				112		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	82.33	79.53	79.54	80.47	2.01	ppb
Cadmium	106-1	58.32	56.36	57.43	57.37	1.71	ppb
Cadmium	111-1	1.92	1.92	2.03	1.96	3.25	ppb
Calcium	43-1	27246.04	27772.16	28171.39	27729.86	1.67	ppb
Calcium	44-1	26453.34	26721.12	26965.88	26713.45	0.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1144.76	1146.30	1137.33	1142.79	0.42	ppb
Cobalt	59-2	16.88	16.93	16.72	16.84	0.64	ppb
Copper	63-2	1929.83	1939.10	1928.14	1932.36	0.31	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				107		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	56-2	64227.99	64190.65	63610.77	64009.80	0.54	ppb
Iron	57-2	62852.62	62330.00	62334.22	62505.62	0.48	ppb
Iron	54-2	64712.22	65266.97	64443.48	64807.56	0.65	ppb
Krypton	83-1						cps

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On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	577.94	596.08	597.48	590.50	1.85	ppb
Lead	207-1	539.97	557.47	553.09	550.18	1.66	ppb
Lead	208-1	555.39	567.94	568.29	563.87	1.30	ppb
Lithium	6-1				120		%
Magnesium	24-2	5246.49	5332.23	5204.99	5261.24	1.23	ppb
Manganese	55-2	2631.88	2630.01	2604.28	2622.06	0.59	ppb
Molybdenum	94-1	4.08	4.26	4.36	4.24	3.30	ppb
Molybdenum	95-1	3.40	3.62	3.65	3.56	3.98	ppb
Molybdenum	96-1	4.09	4.30	4.28	4.22	2.76	ppb
Molybdenum	97-1	3.53	3.56	3.60	3.57	0.97	ppb
Molybdenum	98-1	3.53	3.62	3.64	3.60	1.72	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	188.22	188.20	188.12	188.18	0.03	ppb
Phosphorus	31-2	2077.67	2102.44	2069.54	2083.22	0.82	ppb
Potassium	39-2	1745.26	1773.92	1756.78	1758.65	0.82	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				99		%
Scandium	45-2				102		%
Selenium	82-1	0.61	1.45	1.09	1.05	40.15	ppb
Selenium	77-2	5.51	4.91	5.91	5.45	9.23	ppb
Selenium	78-2	0.08	2.00	0.31	0.80	131.54	ppb
Silicon	28-1	246.17	249.79	255.03	250.33	1.78	ppb
Silver	107-1	2.68	2.75	2.75	2.73	1.36	ppb
Silver	109-1	2.62	2.67	2.69	2.66	1.38	ppb
Sodium	23-2	4328.77	4313.43	4314.20	4318.80	0.20	ppb
Strontium	86-1	4783.69	4967.02	4954.59	4901.77	2.09	ppb
Strontium	88-1	4919.51	5042.19	4992.72	4984.81	1.24	ppb
Sulfur	34-1	4127.11	4182.86	4207.21	4172.39	0.98	ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	0.32	0.32	0.32	0.32	0.50	ppb
Thallium	205-1	0.29	0.31	0.31	0.30	3.25	ppb
Tin	118-1	1132.83	1116.97	1138.65	1129.48	0.99	ppb
Titanium	47-1	494.51	507.30	511.71	504.50	1.77	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.17	2.20	2.22	2.20	1.16	ppb
Vanadium	51-2	34.69	34.98	34.98	34.88	0.49	ppb
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	235.23	238.03	233.73	235.66	0.93	ppb
Zirconium	90-1	0.65	0.69	0.71	0.68	4.15	ppb
Zirconium	91-1	0.73	0.72	0.76	0.74	3.14	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6219.71	6138.85	6230.34	6196.30	0.81	ppb
Antimony	121-1	0.14	0.14	0.15	0.14	2.76	ppb
Arsenic	75-2	32.09	31.65	31.63	31.79	0.81	ppb
Barium	135-1	43.64	43.17	42.41	43.07	1.45	ppb
Barium	137-1	44.10	43.62	42.77	43.49	1.55	ppb
Beryllium	9-1	0.94	0.83	0.86	0.88	6.14	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	16.15	16.11	16.68	16.31	1.96	ppb
Cadmium	106-1	11.22	9.87	9.42	10.17	9.24	ppb
Cadmium	111-1	0.39	0.25	0.22	0.29	32.07	ppb
Calcium	43-1	5580.05	5617.44	5719.73	5639.07	1.28	ppb
Calcium	44-1	5459.64	5308.62	5470.15	5412.81	1.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	217.46	216.54	219.20	217.73	0.62	ppb
Cobalt	59-2	3.32	3.31	3.28	3.31	0.57	ppb
Copper	63-2	380.54	381.73	386.55	382.94	0.83	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				104		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	12209.30	12193.06	12373.83	12258.73	0.82	ppb
Iron	57-2	12403.36	12262.81	12461.98	12376.05	0.83	ppb
Iron	54-2	12439.14	12535.77	12458.84	12477.92	0.41	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	109.68	107.50	107.17	108.12	1.26	ppb
Lead	207-1	100.20	97.78	97.32	98.43	1.57	ppb
Lead	208-1	108.40	104.99	105.73	106.37	1.69	ppb
Lithium	6-1				110		%
Magnesium	24-2	1027.10	1023.88	1022.73	1024.57	0.22	ppb
Manganese	55-2	517.52	516.02	520.29	517.94	0.42	ppb
Molybdenum	94-1	0.87	0.90	1.22	1.00	19.31	ppb
Molybdenum	95-1	0.76	0.74	1.24	0.91	31.19	ppb
Molybdenum	96-1	0.90	0.84	1.21	0.98	20.34	ppb
Molybdenum	97-1	0.72	0.68	0.98	0.79	20.19	ppb
Molybdenum	98-1	0.74	0.70	0.98	0.80	18.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.98	36.98	37.81	37.26	1.29	ppb
Phosphorus	31-2	388.95	408.42	378.65	392.01	3.86	ppb
Potassium	39-2	333.75	336.75	341.61	337.37	1.18	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				95		%
Scandium	45-2				99		%
Selenium	82-1	0.48	0.07	0.36	0.30	68.26	ppb
Selenium	77-2	1.67	0.89	1.05	1.20	34.05	ppb
Selenium	78-2	-0.07	0.94	-0.13	0.25	244.90	ppb
Silicon	28-1	49.16	49.09	50.26	49.50	1.33	ppb
Silver	107-1	0.55	0.56	0.54	0.55	2.05	ppb
Silver	109-1	0.53	0.54	0.55	0.54	1.72	ppb
Sodium	23-2	875.98	871.62	884.54	877.38	0.75	ppb
Strontium	86-1	1010.46	994.58	992.05	999.03	1.00	ppb
Strontium	88-1	1007.86	997.59	1007.86	1004.44	0.59	ppb
Sulfur	34-1	-63.39	-42.34	22.62	-27.70		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.08	0.08	0.08	0.08	1.01	ppb
Thallium	205-1	0.08	0.06	0.08	0.07	11.76	ppb
Tin	118-1	226.90	220.86	221.28	223.01	1.51	ppb
Titanium	47-1	99.04	99.11	99.28	99.14	0.13	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.44	0.43	0.41	0.43	3.48	ppb
Vanadium	51-2	6.59	6.65	6.62	6.62	0.41	ppb
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	46.68	47.19	46.95	46.94	0.54	ppb
Zirconium	90-1	0.16	0.16	0.20	0.17	11.46	ppb
Zirconium	91-1	0.17	0.16	0.19	0.17	6.62	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30168.16	30062.73	30595.45	30275.45	0.93	ppb
Antimony	121-1	13.57	13.68	13.89	13.71	1.18	ppb
Arsenic	75-2	176.33	179.77	181.20	179.10	1.40	ppb
Barium	135-1	621.15	623.37	624.62	623.05	0.28	ppb
Barium	137-1	617.61	626.29	627.16	623.69	0.85	ppb
Beryllium	9-1	13.34	13.15	13.21	13.23	0.72	ppb
Bismuth	209-1				111		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	91.78	95.57	94.30	93.88	2.06	ppb
Cadmium	106-1	65.87	67.80	68.26	67.31	1.88	ppb
Cadmium	111-1	11.20	11.44	11.51	11.38	1.41	ppb
Calcium	43-1	26878.06	26843.17	26718.84	26813.36	0.31	ppb
Calcium	44-1	26000.70	25626.11	25592.27	25739.69	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1058.84	1053.79	1040.77	1051.13	0.89	ppb
Cobalt	59-2	112.77	111.88	113.37	112.67	0.67	ppb
Copper	63-2	2016.21	2017.69	2025.14	2019.68	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				108		%
Holmium	165-2				106		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	64896.55	64446.34	64639.64	64660.85	0.35	ppb
Iron	57-2	63751.22	63460.13	63192.82	63468.06	0.44	ppb
Iron	54-2	65775.22	65199.43	65400.38	65458.34	0.45	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	617.55	622.94	623.57	621.35	0.53	ppb
Lead	207-1	577.87	577.19	573.49	576.18	0.41	ppb
Lead	208-1	591.32	593.15	590.17	591.55	0.25	ppb
Lithium	6-1				117		%
Magnesium	24-2	5371.33	5327.55	5362.32	5353.73	0.43	ppb
Manganese	55-2	2497.93	2465.56	2485.34	2482.94	0.66	ppb
Molybdenum	94-1	4.41	4.42	4.39	4.41	0.29	ppb
Molybdenum	95-1	3.75	3.69	3.67	3.70	1.12	ppb
Molybdenum	96-1	4.39	4.26	4.30	4.31	1.54	ppb
Molybdenum	97-1	3.74	3.74	3.81	3.76	1.02	ppb
Molybdenum	98-1	3.70	3.60	3.69	3.66	1.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	281.59	278.95	283.45	281.33	0.80	ppb
Phosphorus	31-2	1998.21	2039.09	2058.03	2031.78	1.50	ppb
Potassium	39-2	1754.27	1765.35	1767.79	1762.47	0.41	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				98		%
Scandium	45-2				100		%
Selenium	82-1	4.86	4.16	4.64	4.55	7.94	ppb
Selenium	77-2	7.62	8.45	8.40	8.16	5.71	ppb
Selenium	78-2	3.64	5.62	3.54	4.27	27.61	ppb
Silicon	28-1	233.65	228.65	226.30	229.54	1.63	ppb
Silver	107-1	12.10	12.26	12.25	12.20	0.71	ppb
Silver	109-1	12.06	12.27	12.45	12.26	1.58	ppb
Sodium	23-2	4096.39	4097.87	4129.18	4107.81	0.45	ppb
Strontium	86-1	4726.47	4723.20	4740.25	4729.97	0.19	ppb
Strontium	88-1	4872.74	4855.03	4841.49	4856.42	0.32	ppb
Sulfur	34-1	3756.54	3659.19	3621.53	3679.09	1.89	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	8.20	8.17	8.30	8.22	0.80	ppb
Thallium	205-1	8.11	8.22	8.22	8.18	0.76	ppb
Tin	118-1	1146.55	1163.68	1178.31	1162.85	1.37	ppb
Titanium	47-1	555.33	555.18	549.34	553.28	0.62	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.21	2.28	2.29	2.26	1.77	ppb
Vanadium	51-2	131.60	131.82	130.98	131.47	0.33	ppb
Yttrium	89-1				104		%
Yttrium	89-2				105		%
Zinc	66-2	321.64	321.71	327.25	323.53	0.99	ppb
Zirconium	90-1	0.73	0.69	0.73	0.72	2.89	ppb
Zirconium	91-1	0.80	0.72	0.74	0.75	5.18	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11492.88	11587.43	11756.03	11612.11	1.15	ppb
Antimony	121-1	0.07	0.05	0.05	0.06	14.74	ppb
Arsenic	75-2	6.40	6.54	6.33	6.42	1.65	ppb
Barium	135-1	46.78	47.86	48.49	47.71	1.81	ppb
Barium	137-1	47.29	48.40	48.49	48.06	1.39	ppb
Beryllium	9-1	0.66	0.66	0.57	0.63	7.74	ppb
Bismuth	209-1				106		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.35	0.30	0.16	0.27	35.20	ppb
Cadmium	106-1	-1.26	-0.81	-1.80	-1.29		ppb
Cadmium	111-1	0.01	0.01	-0.04	-0.01		ppb
Calcium	43-1	1561.06	1618.03	1600.79	1593.29	1.83	ppb
Calcium	44-1	1560.30	1589.38	1596.60	1582.10	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.25	30.64	30.34	30.41	0.68	ppb
Cobalt	59-2	4.87	4.88	4.98	4.91	1.30	ppb
Copper	63-2	11.37	11.49	11.22	11.36	1.20	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				104		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	12052.29	12151.12	11982.39	12061.93	0.70	ppb
Iron	57-2	12146.68	12146.36	12077.26	12123.44	0.33	ppb
Iron	54-2	12274.98	12471.06	12146.56	12297.54	1.33	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	160.05	163.90	165.64	163.20	1.75	ppb
Lead	207-1	159.19	163.65	165.93	162.92	2.10	ppb
Lead	208-1	165.87	171.66	172.12	169.88	2.05	ppb
Lithium	6-1				106		%
Magnesium	24-2	3607.37	3668.97	3754.50	3676.95	2.01	ppb
Manganese	55-2	144.32	144.86	144.45	144.54	0.19	ppb
Molybdenum	94-1	2.28	2.23	2.35	2.28	2.64	ppb
Molybdenum	95-1	0.44	0.47	0.50	0.47	5.58	ppb
Molybdenum	96-1	0.77	0.78	0.82	0.79	3.20	ppb
Molybdenum	97-1	0.47	0.48	0.51	0.49	3.66	ppb
Molybdenum	98-1	0.48	0.48	0.48	0.48	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.75	17.02	17.36	17.04	1.81	ppb
Phosphorus	31-2	364.78	349.24	355.46	356.49	2.19	ppb
Potassium	39-2	1074.17	1085.42	1078.15	1079.25	0.53	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				95		%
Scandium	45-2				99		%
Selenium	82-1	0.57	0.43	0.25	0.42	38.82	ppb
Selenium	77-2	2.94	3.31	3.53	3.26	9.10	ppb
Selenium	78-2	0.76	0.52	-0.16	0.38	126.96	ppb
Silicon	28-1	47.25	41.31	40.86	43.14	8.26	ppb
Silver	107-1	0.08	0.07	0.06	0.07	10.74	ppb
Silver	109-1	0.08	0.07	0.08	0.07	8.37	ppb
Sodium	23-2	193.85	193.99	191.39	193.08	0.76	ppb
Strontium	86-1	194.04	201.33	200.10	198.49	1.97	ppb
Strontium	88-1	197.13	199.12	199.95	198.73	0.73	ppb
Sulfur	34-1	-766.00	-821.65	-810.01	-799.22		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.19	0.18	0.20	0.19	3.51	ppb
Thallium	205-1	0.19	0.20	0.19	0.19	3.24	ppb
Tin	118-1	1.24	0.94	0.81	1.00	21.95	ppb
Titanium	47-1	445.12	456.46	458.73	453.44	1.61	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.88	1.92	1.95	1.92	1.80	ppb
Vanadium	51-2	26.60	26.37	26.63	26.53	0.54	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	44.09	46.09	45.21	45.13	2.21	ppb
Zirconium	90-1	1.04	1.04	1.04	1.04	0.25	ppb
Zirconium	91-1	0.99	1.03	1.00	1.00	2.02	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11718.67	11916.60	11809.21	11814.83	0.84	ppb
Antimony	121-1	0.04	0.05	0.05	0.04	6.88	ppb
Arsenic	75-2	6.95	6.87	6.59	6.80	2.82	ppb
Barium	135-1	49.39	48.10	48.82	48.77	1.32	ppb
Barium	137-1	49.23	48.07	48.54	48.61	1.20	ppb
Beryllium	9-1	0.56	0.66	0.64	0.62	8.43	ppb
Bismuth	209-1				106		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.19	0.24	0.20	0.21	12.26	ppb
Cadmium	106-1	-0.68	-2.63	-1.27	-1.52		ppb
Cadmium	111-1	0.07	-0.09	0.01	0.00		ppb
Calcium	43-1	1634.11	1628.17	1616.17	1626.15	0.56	ppb
Calcium	44-1	1600.65	1626.41	1616.16	1614.40	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	31.29	30.41	30.51	30.73	1.57	ppb
Cobalt	59-2	4.93	4.94	4.97	4.95	0.40	ppb
Copper	63-2	11.29	10.96	11.02	11.09	1.59	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				100		%
Indium	115-2				99		%
Iron	56-2	12201.95	12063.12	12163.99	12143.02	0.59	ppb
Iron	57-2	12208.78	12209.13	12371.34	12263.08	0.76	ppb
Iron	54-2	12092.30	12132.37	12532.78	12252.48	1.99	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	171.05	173.71	172.10	172.29	0.78	ppb
Lead	207-1	169.17	170.93	171.77	170.62	0.78	ppb
Lead	208-1	177.18	177.86	180.02	178.35	0.83	ppb
Lithium	6-1				106		%
Magnesium	24-2	3696.96	3771.37	3788.09	3752.14	1.29	ppb
Manganese	55-2	147.64	145.78	148.43	147.29	0.92	ppb
Molybdenum	94-1	2.29	2.34	2.31	2.32	1.12	ppb
Molybdenum	95-1	0.52	0.51	0.55	0.53	3.70	ppb
Molybdenum	96-1	0.83	0.80	0.84	0.82	2.58	ppb
Molybdenum	97-1	0.51	0.51	0.53	0.52	2.48	ppb
Molybdenum	98-1	0.52	0.53	0.55	0.53	2.89	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.23	17.15	17.26	17.21	0.31	ppb
Phosphorus	31-2	376.74	368.56	377.39	374.23	1.31	ppb
Potassium	39-2	1100.55	1091.47	1096.87	1096.29	0.42	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	0.30	0.78	0.36	0.48	54.54	ppb
Selenium	77-2	2.16	2.75	3.72	2.88	27.46	ppb
Selenium	78-2	1.29	0.89	-0.37	0.60	143.06	ppb
Silicon	28-1	46.76	47.86	47.96	47.53	1.41	ppb
Silver	107-1	0.06	0.05	0.05	0.06	7.54	ppb
Silver	109-1	0.05	0.06	0.05	0.06	6.32	ppb
Sodium	23-2	194.48	186.53	191.54	190.85	2.11	ppb
Strontium	86-1	200.70	203.12	201.71	201.84	0.60	ppb
Strontium	88-1	203.83	202.46	205.20	203.83	0.67	ppb
Sulfur	34-1	-978.81	-949.16	-942.55	-956.84		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.19	0.21	0.20	0.20	4.97	ppb
Thallium	205-1	0.19	0.19	0.19	0.19	1.40	ppb
Tin	118-1	0.32	0.28	0.28	0.29	8.77	ppb
Titanium	47-1	464.91	470.37	469.46	468.25	0.62	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.94	1.95	1.98	1.96	1.27	ppb
Vanadium	51-2	26.91	26.90	27.31	27.04	0.86	ppb
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	45.05	45.84	46.60	45.83	1.69	ppb
Zirconium	90-1	1.01	1.02	1.03	1.02	0.71	ppb
Zirconium	91-1	1.01	1.04	1.07	1.04	2.64	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2422.09	2421.12	2387.67	2410.29	0.81	ppb
Antimony	121-1	0.02	0.01	0.02	0.01	25.30	ppb
Arsenic	75-2	1.36	1.34	1.24	1.31	4.98	ppb
Barium	135-1	9.58	9.97	9.93	9.83	2.18	ppb
Barium	137-1	9.65	10.03	9.98	9.88	2.04	ppb
Beryllium	9-1	0.11	0.13	0.16	0.13	18.83	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.08	-0.02	-0.02	-0.04		ppb
Cadmium	106-1	-1.57	-2.16	-3.71	-2.48		ppb
Cadmium	111-1	-0.08	-0.14	-0.25	-0.16		ppb
Calcium	43-1	325.27	324.49	335.29	328.35	1.83	ppb
Calcium	44-1	317.23	327.12	331.68	325.35	2.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.48	6.36	6.30	6.38	1.44	ppb
Cobalt	59-2	1.04	1.05	1.09	1.06	2.36	ppb
Copper	63-2	2.26	2.21	2.12	2.20	3.10	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				104		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	56-2	2552.48	2534.52	2525.82	2537.60	0.54	ppb
Iron	57-2	2615.20	2551.95	2546.79	2571.31	1.48	ppb
Iron	54-2	2634.68	2604.43	2622.92	2620.67	0.58	ppb
Krypton	83-1						cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	33.27	34.44	33.77	33.83	1.73	ppb
Lead	207-1	33.27	34.38	34.40	34.01	1.90	ppb
Lead	208-1	33.12	34.19	33.80	33.70	1.61	ppb
Lithium	6-1				108		%
Magnesium	24-2	776.36	764.11	763.63	768.04	0.94	ppb
Manganese	55-2	30.73	30.46	30.22	30.47	0.85	ppb
Molybdenum	94-1	0.46	0.43	0.48	0.46	5.54	ppb
Molybdenum	95-1	0.09	0.12	0.11	0.10	11.97	ppb
Molybdenum	96-1	0.16	0.14	0.16	0.16	6.25	ppb
Molybdenum	97-1	0.10	0.11	0.11	0.11	4.55	ppb
Molybdenum	98-1	0.10	0.11	0.11	0.11	6.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.26	3.35	3.23	3.28	1.91	ppb
Phosphorus	31-2	64.81	70.92	61.74	65.83	7.10	ppb
Potassium	39-2	227.46	220.82	216.68	221.66	2.45	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	-0.37	0.17	0.33	0.05	780.72	ppb
Selenium	77-2	0.42	0.41	0.74	0.53	35.64	ppb
Selenium	78-2	0.48	-1.37	-0.36	-0.42		ppb
Silicon	28-1	7.39	8.47	8.49	8.12	7.75	ppb
Silver	107-1	0.01	0.01	0.02	0.01	27.60	ppb
Silver	109-1	0.02	0.02	0.02	0.02	6.72	ppb
Sodium	23-2	48.01	47.10	46.67	47.26	1.44	ppb
Strontium	86-1	39.08	41.95	44.65	41.90	6.65	ppb
Strontium	88-1	40.61	42.26	42.16	41.68	2.21	ppb
Sulfur	34-1	-1667.26	-1689.27	-1614.83	-1657.12		ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	0.04	0.05	0.05	0.05	11.04	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	6.06	ppb
Tin	118-1	0.05	0.06	0.08	0.06	18.41	ppb
Titanium	47-1	92.49	95.24	96.36	94.69	2.10	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.38	0.40	0.41	0.40	2.81	ppb
Vanadium	51-2	5.78	5.58	5.58	5.64	2.02	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	9.22	9.56	9.52	9.43	1.98	ppb
Zirconium	90-1	0.20	0.22	0.21	0.21	3.91	ppb
Zirconium	91-1	0.18	0.21	0.21	0.20	8.04	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10661.94	10676.21	10681.29	10673.15	0.09	ppb
Antimony	121-1	15.47	15.86	16.04	15.79	1.85	ppb
Arsenic	75-2	14.51	15.65	15.36	15.17	3.88	ppb
Barium	135-1	409.44	420.73	424.33	418.16	1.86	ppb
Barium	137-1	432.70	440.98	440.88	438.18	1.08	ppb
Beryllium	9-1	10.02	10.07	9.53	9.88	3.00	ppb
Bismuth	209-1				111		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	9.17	8.71	9.47	9.12	4.21	ppb
Cadmium	106-1	7.20	6.43	7.31	6.98	6.86	ppb
Cadmium	111-1	9.67	9.82	9.73	9.74	0.74	ppb
Calcium	43-1	1412.74	1482.76	1464.98	1453.50	2.50	ppb
Calcium	44-1	1412.03	1483.03	1464.05	1453.03	2.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	66.41	67.06	67.50	66.99	0.81	ppb
Cobalt	59-2	100.79	101.71	102.79	101.76	0.98	ppb
Copper	63-2	61.45	61.86	61.44	61.58	0.39	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				106		%
Indium	115-1				104		%
Indium	115-2				101		%
Iron	56-2	11591.89	11696.63	11820.75	11703.09	0.98	ppb
Iron	57-2	11629.80	11730.87	11908.92	11756.53	1.20	ppb
Iron	54-2	11663.56	11893.99	11835.68	11797.74	1.02	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	90.18	92.83	93.99	92.33	2.11	ppb
Lead	207-1	89.65	92.42	92.28	91.45	1.71	ppb
Lead	208-1	94.14	96.13	95.97	95.41	1.16	ppb
Lithium	6-1				113		%
Magnesium	24-2	3429.29	3490.21	3418.05	3445.85	1.13	ppb
Manganese	55-2	228.41	229.26	229.92	229.20	0.33	ppb
Molybdenum	94-1	1.01	0.99	1.01	1.00	1.58	ppb
Molybdenum	95-1	0.49	0.46	0.54	0.50	8.16	ppb
Molybdenum	96-1	0.66	0.65	0.66	0.66	1.10	ppb
Molybdenum	97-1	0.56	0.46	0.49	0.50	10.56	ppb
Molybdenum	98-1	0.48	0.51	0.49	0.49	2.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	116.13	117.25	117.87	117.08	0.76	ppb
Phosphorus	31-2	343.54	337.78	323.59	334.97	3.07	ppb
Potassium	39-2	1028.47	1043.11	1057.72	1043.10	1.40	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				97		%
Scandium	45-2				100		%
Selenium	82-1	3.63	3.26	3.47	3.45	5.33	ppb
Selenium	77-2	6.97	7.25	7.64	7.29	4.58	ppb
Selenium	78-2	2.95	3.63	3.76	3.45	12.58	ppb
Silicon	28-1	113.94	120.70	128.92	121.19	6.19	ppb
Silver	107-1	9.36	9.68	9.95	9.66	3.05	ppb
Silver	109-1	9.28	9.65	9.77	9.57	2.62	ppb
Sodium	23-2	196.04	201.85	205.45	201.11	2.36	ppb
Strontium	86-1	180.76	179.39	181.92	180.69	0.70	ppb
Strontium	88-1	176.96	181.34	181.16	179.82	1.38	ppb
Sulfur	34-1	-1385.32	-1296.15	-1345.62	-1342.36		ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	8.34	8.64	8.75	8.58	2.51	ppb
Thallium	205-1	8.35	8.65	8.65	8.55	2.00	ppb
Tin	118-1	1.02	0.96	1.00	0.99	3.16	ppb
Titanium	47-1	516.75	538.20	533.02	529.32	2.11	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.60	1.65	1.67	1.64	2.25	ppb
Vanadium	51-2	120.76	120.34	121.04	120.71	0.29	ppb
Yttrium	89-1				104		%
Yttrium	89-2				103		%
Zinc	66-2	140.46	142.50	143.15	142.04	0.99	ppb
Zirconium	90-1	0.34	0.35	0.34	0.34	1.95	ppb
Zirconium	91-1	0.35	0.38	0.33	0.35	6.87	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10795.82	10742.78	10585.32	10707.98	1.02	ppb
Antimony	121-1	0.68	0.71	0.72	0.70	3.01	ppb
Arsenic	75-2	35.36	35.50	34.70	35.19	1.21	ppb
Barium	135-1	48.00	48.37	49.04	48.47	1.08	ppb
Barium	137-1	47.90	48.53	49.32	48.58	1.46	ppb
Beryllium	9-1	0.55	0.62	0.57	0.58	5.61	ppb
Bismuth	209-1				112		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	206.43	214.05	215.67	212.05	2.33	ppb
Cadmium	106-1	149.10	151.68	147.24	149.34	1.49	ppb
Cadmium	111-1	0.27	0.03	-0.36	-0.02		ppb
Calcium	43-1	1218.25	1179.22	1233.50	1210.32	2.31	ppb
Calcium	44-1	1199.86	1190.05	1225.61	1205.17	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1601.99	1603.90	1572.74	1592.88	1.10	ppb
Cobalt	59-2	6.18	6.31	6.13	6.20	1.50	ppb
Copper	63-2	1188.24	1200.02	1168.98	1185.75	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				108		%
Holmium	165-2				106		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	56-2	23466.48	23648.69	23166.10	23427.09	1.04	ppb
Iron	57-2	22977.77	22912.78	22475.37	22788.64	1.20	ppb
Iron	54-2	24581.99	24557.46	24203.17	24447.54	0.87	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	393.46	394.91	396.80	395.06	0.42	ppb
Lead	207-1	356.40	365.85	368.77	363.68	1.78	ppb
Lead	208-1	370.39	375.38	377.54	374.43	0.98	ppb
Lithium	6-1				113		%
Magnesium	24-2	3110.98	3064.13	3029.01	3068.04	1.34	ppb
Manganese	55-2	220.69	219.01	215.75	218.48	1.15	ppb
Molybdenum	94-1	2.22	2.22	2.15	2.20	1.86	ppb
Molybdenum	95-1	1.80	1.81	1.75	1.79	1.78	ppb
Molybdenum	96-1	2.01	2.01	2.02	2.01	0.41	ppb
Molybdenum	97-1	1.79	1.81	1.75	1.78	1.62	ppb
Molybdenum	98-1	1.77	1.82	1.77	1.79	1.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	33.36	32.65	32.71	32.91	1.19	ppb
Phosphorus	31-2	992.79	996.76	1023.15	1004.23	1.64	ppb
Potassium	39-2	1330.37	1328.98	1298.82	1319.39	1.35	ppb
Rhodium	103-1				101		%
Rhodium	103-2				104		%
Scandium	45-1				96		%
Scandium	45-2				99		%
Selenium	82-1	0.45	0.54	0.95	0.65	40.48	ppb
Selenium	77-2	2.26	3.38	4.08	3.24	28.29	ppb
Selenium	78-2	1.31	1.19	-0.50	0.67	151.60	ppb
Silicon	28-1	112.24	112.32	113.79	112.79	0.77	ppb
Silver	107-1	4.71	4.75	4.80	4.76	1.01	ppb
Silver	109-1	4.68	4.75	4.74	4.72	0.78	ppb
Sodium	23-2	148.86	152.12	146.90	149.29	1.77	ppb
Strontium	86-1	120.38	120.67	118.64	119.90	0.92	ppb
Strontium	88-1	120.28	120.90	119.68	120.29	0.51	ppb
Sulfur	34-1	-1377.16	-1416.20	-1348.67	-1380.68		ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	0.15	0.14	0.15	0.15	2.53	ppb
Thallium	205-1	0.15	0.15	0.15	0.15	1.38	ppb
Tin	118-1	2354.92	2357.29	2363.02	2358.41	0.18	ppb
Titanium	47-1	646.90	639.45	655.31	647.22	1.23	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.65	1.70	1.67	1.67	1.53	ppb
Vanadium	51-2	26.81	26.97	26.47	26.75	0.96	ppb
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	55.42	55.46	54.33	55.07	1.16	ppb
Zirconium	90-1	0.41	0.38	0.39	0.39	3.85	ppb
Zirconium	91-1	0.43	0.37	0.38	0.39	7.76	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30350.24	29972.71	30005.42	30109.46	0.69	ppb
Antimony	121-1	1.05	1.10	1.03	1.06	3.52	ppb
Arsenic	75-2	78.47	78.94	78.22	78.54	0.47	ppb
Barium	135-1	51.65	52.90	50.81	51.79	2.03	ppb
Barium	137-1	52.12	53.22	51.20	52.18	1.95	ppb
Beryllium	9-1	2.31	2.20	2.43	2.32	4.86	ppb
Bismuth	209-1				115		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.98	1.54	2.12	1.88	15.96	ppb
Cadmium	106-1	2.96	0.99	1.47	1.81	56.87	ppb
Cadmium	111-1	0.61	0.54	0.52	0.56	8.43	ppb
Calcium	43-1	2777.33	2792.36	2719.78	2763.16	1.39	ppb
Calcium	44-1	2779.27	2758.13	2700.39	2745.93	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	65.44	64.79	64.60	64.94	0.68	ppb
Cobalt	59-2	38.23	38.47	38.34	38.34	0.31	ppb
Copper	63-2	30.53	30.70	30.37	30.53	0.53	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				112		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				101		%
Iron	56-2	32980.51	32637.05	32401.27	32672.94	0.89	ppb
Iron	57-2	32071.03	32453.97	32101.07	32208.69	0.66	ppb
Iron	54-2	33096.54	32447.11	32272.43	32605.36	1.33	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	123.94	123.32	120.93	122.73	1.29	ppb
Lead	207-1	116.70	116.69	113.30	115.56	1.69	ppb
Lead	208-1	124.66	123.90	121.17	123.24	1.49	ppb
Lithium	6-1				115		%
Magnesium	24-2	3175.87	3166.48	3145.46	3162.60	0.49	ppb
Manganese	55-2	524.42	520.71	512.42	519.18	1.18	ppb
Molybdenum	94-1	2.93	2.98	2.88	2.93	1.86	ppb
Molybdenum	95-1	2.43	2.59	2.43	2.48	3.65	ppb
Molybdenum	96-1	2.75	2.83	2.64	2.74	3.43	ppb
Molybdenum	97-1	2.57	2.59	2.50	2.55	1.87	ppb
Molybdenum	98-1	2.49	2.49	2.46	2.48	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.64	28.14	27.93	27.91	0.90	ppb
Phosphorus	31-2	1771.45	1804.00	1714.93	1763.46	2.56	ppb
Potassium	39-2	1101.49	1102.44	1091.06	1098.33	0.57	ppb
Rhodium	103-1				103		%
Rhodium	103-2				103		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	3.40	3.64	3.35	3.46	4.48	ppb
Selenium	77-2	19.94	17.04	19.12	18.70	7.98	ppb
Selenium	78-2	4.35	4.78	4.89	4.67	6.10	ppb
Silicon	28-1	134.72	133.67	131.07	133.16	1.41	ppb
Silver	107-1	0.50	0.50	0.47	0.49	2.89	ppb
Silver	109-1	0.50	0.49	0.50	0.49	1.17	ppb
Sodium	23-2	649.58	644.44	643.29	645.77	0.52	ppb
Strontium	86-1	452.45	468.42	452.78	457.88	1.99	ppb
Strontium	88-1	463.76	471.66	452.27	462.56	2.11	ppb
Sulfur	34-1	1902.82	1818.18	1662.82	1794.61	6.78	ppb
Terbium	159-1				111		%
Terbium	159-2				108		%
Thallium	203-1	0.19	0.20	0.20	0.19	3.17	ppb
Thallium	205-1	0.18	0.19	0.19	0.19	2.18	ppb
Tin	118-1	13.58	13.34	13.99	13.64	2.41	ppb
Titanium	47-1	414.40	415.32	403.02	410.92	1.67	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.76	9.65	9.52	9.64	1.24	ppb
Vanadium	51-2	48.13	48.01	47.67	47.94	0.51	ppb
Yttrium	89-1				115		%
Yttrium	89-2				113		%
Zinc	66-2	54.27	55.43	54.60	54.76	1.09	ppb
Zirconium	90-1	0.50	0.50	0.47	0.49	2.73	ppb
Zirconium	91-1	0.49	0.50	0.50	0.49	1.79	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3320.93	3294.37	3325.07	3313.46	0.50	ppb
Antimony	121-1	1.73	1.59	1.69	1.67	4.24	ppb
Arsenic	75-2	68.52	69.17	68.28	68.66	0.68	ppb
Barium	135-1	37.47	35.03	36.09	36.20	3.38	ppb
Barium	137-1	37.40	35.34	36.13	36.29	2.87	ppb
Beryllium	9-1	0.17	0.15	0.09	0.13	30.67	ppb
Bismuth	209-1				113		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1259.42	1173.02	1202.77	1211.74	3.62	ppb
Cadmium	106-1	904.00	838.22	851.37	864.53	4.03	ppb
Cadmium	111-1	0.49	0.21	-0.37	0.11	388.05	ppb
Calcium	43-1	2508.42	2396.61	2397.66	2434.23	2.64	ppb
Calcium	44-1	2523.92	2364.93	2415.67	2434.84	3.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8787.52	8720.59	8729.35	8745.82	0.42	ppb
Cobalt	59-2	2.28	2.43	2.33	2.35	3.19	ppb
Copper	63-2	418.01	410.21	403.35	410.52	1.79	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				106		%
Holmium	165-2				102		%
Indium	115-1				72		%
Indium	115-2				65		%
Iron	56-2	21342.13	21563.69	21353.67	21419.83	0.58	ppb
Iron	57-2	20971.34	21339.05	21248.30	21186.23	0.90	ppb
Iron	54-2	27383.08	27666.09	27369.92	27473.03	0.61	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	635.57	589.38	609.78	611.57	3.78	ppb
Lead	207-1	571.18	534.86	554.37	553.47	3.28	ppb
Lead	208-1	595.24	553.15	576.93	575.11	3.67	ppb
Lithium	6-1				110		%
Magnesium	24-2	859.55	857.56	868.12	861.75	0.65	ppb
Manganese	55-2	89.16	89.61	90.98	89.92	1.06	ppb
Molybdenum	94-1	5.63	5.25	5.33	5.40	3.71	ppb
Molybdenum	95-1	5.71	5.33	5.32	5.45	4.03	ppb
Molybdenum	96-1	5.87	5.41	5.53	5.60	4.27	ppb
Molybdenum	97-1	5.72	5.15	5.27	5.38	5.54	ppb
Molybdenum	98-1	5.75	5.37	5.38	5.50	3.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.70	18.23	17.97	17.97	1.47	ppb
Phosphorus	31-2	1762.69	1761.82	1758.74	1761.08	0.12	ppb
Potassium	39-2	793.03	797.00	796.69	795.57	0.28	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				88		%
Scandium	45-2				87		%
Selenium	82-1	1.08	0.14	0.79	0.67	72.08	ppb
Selenium	77-2	1.46	2.03	0.98	1.49	35.07	ppb
Selenium	78-2	-1.16	0.00	-0.45	-0.53		ppb
Silicon	28-1	91.83	83.97	87.44	87.75	4.49	ppb
Silver	107-1	17.44	16.35	16.86	16.88	3.23	ppb
Silver	109-1	17.19	16.12	16.59	16.63	3.22	ppb
Sodium	23-2	230.90	230.85	235.60	232.45	1.17	ppb
Strontium	86-1	234.60	215.52	217.49	222.53	4.71	ppb
Strontium	88-1	235.07	216.57	219.72	223.78	4.42	ppb
Sulfur	34-1	-282.45	-512.53	-324.09	-373.02		ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.09	0.09	0.09	0.09	3.29	ppb
Thallium	205-1	0.10	0.08	0.09	0.09	8.15	ppb
Tin	118-1	14226.91	13403.76	13620.56	13750.41	3.10	ppb
Titanium	47-1	465.57	434.88	439.45	446.63	3.71	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.62	0.57	0.59	0.59	4.72	ppb
Vanadium	51-2	27.62	27.61	27.92	27.71	0.63	ppb
Yttrium	89-1				96		%
Yttrium	89-2				93		%
Zinc	66-2	33.03	33.40	34.30	33.58	1.95	ppb
Zirconium	90-1	0.51	0.48	0.49	0.49	2.96	ppb
Zirconium	91-1	0.50	0.47	0.49	0.49	3.79	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4897.68	4850.44	4901.79	4883.30	0.58	ppb
Antimony	121-1	0.44	0.39	0.42	0.42	6.18	ppb
Arsenic	75-2	20.42	21.13	21.38	20.98	2.36	ppb
Barium	135-1	37.84	37.42	38.36	37.87	1.23	ppb
Barium	137-1	37.58	38.13	38.85	38.19	1.67	ppb
Beryllium	9-1	0.34	0.28	0.28	0.30	12.56	ppb
Bismuth	209-1				108		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.52	0.84	1.01	1.12	31.47	ppb
Cadmium	106-1	-0.47	-1.16	-1.53	-1.05		ppb
Cadmium	111-1	0.23	0.20	0.21	0.21	8.76	ppb
Calcium	43-1	2073.19	2064.69	2028.12	2055.33	1.17	ppb
Calcium	44-1	2037.66	2073.15	2055.55	2055.45	0.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.24	29.87	29.07	29.72	2.01	ppb
Cobalt	59-2	7.87	7.90	7.86	7.88	0.25	ppb
Copper	63-2	40.32	40.22	39.96	40.17	0.46	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				100		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	56-2	18543.26	18462.33	18191.92	18399.17	1.00	ppb
Iron	57-2	18074.63	18472.56	17596.85	18048.01	2.43	ppb
Iron	54-2	18513.72	18473.38	18229.48	18405.53	0.84	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	27.77	27.91	28.23	27.97	0.84	ppb
Lead	207-1	25.78	26.05	25.83	25.88	0.55	ppb
Lead	208-1	26.48	26.79	26.73	26.67	0.61	ppb
Lithium	6-1				110		%
Magnesium	24-2	2012.33	1963.42	1960.70	1978.81	1.47	ppb
Manganese	55-2	186.06	184.46	182.61	184.38	0.94	ppb
Molybdenum	94-1	1.60	1.69	1.66	1.65	2.67	ppb
Molybdenum	95-1	1.23	1.23	1.23	1.23	0.36	ppb
Molybdenum	96-1	1.40	1.40	1.42	1.41	0.77	ppb
Molybdenum	97-1	1.27	1.22	1.21	1.23	2.69	ppb
Molybdenum	98-1	1.17	1.20	1.20	1.19	1.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.82	21.22	20.79	21.28	2.44	ppb
Phosphorus	31-2	593.10	600.15	612.82	602.02	1.66	ppb
Potassium	39-2	663.20	677.71	666.30	669.07	1.14	ppb
Rhodium	103-1				92		%
Rhodium	103-2				97		%
Scandium	45-1				83		%
Scandium	45-2				90		%
Selenium	82-1	-0.02	0.61	1.05	0.55	98.18	ppb
Selenium	77-2	3.65	3.12	2.29	3.02	22.72	ppb
Selenium	78-2	-0.46	0.44	-1.94	-0.65		ppb
Silicon	28-1	98.56	103.58	101.26	101.13	2.49	ppb
Silver	107-1	0.50	0.47	0.49	0.48	3.42	ppb
Silver	109-1	0.49	0.46	0.46	0.47	3.27	ppb
Sodium	23-2	433.21	427.31	424.85	428.46	1.00	ppb
Strontium	86-1	244.76	246.10	245.72	245.53	0.28	ppb
Strontium	88-1	247.28	252.50	251.93	250.57	1.14	ppb
Sulfur	34-1	-1021.16	-905.36	-1010.41	-978.98		ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.10	0.11	0.11	0.11	3.93	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	1.90	ppb
Tin	118-1	10.61	10.71	11.56	10.96	4.74	ppb
Titanium	47-1	253.98	259.33	259.22	257.51	1.19	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.19	1.17	1.16	1.18	1.33	ppb
Vanadium	51-2	14.37	14.50	14.07	14.31	1.52	ppb
Yttrium	89-1				93		%
Yttrium	89-2				95		%
Zinc	66-2	116.06	118.47	115.68	116.74	1.30	ppb
Zirconium	90-1	0.35	0.35	0.35	0.35	1.02	ppb
Zirconium	91-1	0.32	0.36	0.32	0.33	7.54	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12286.59	12348.05	12425.07	12353.24	0.56	ppb
Antimony	121-1	0.03	0.04	0.05	0.04	20.84	ppb
Arsenic	75-2	4.67	4.53	4.59	4.59	1.59	ppb
Barium	135-1	36.80	38.10	37.77	37.56	1.80	ppb
Barium	137-1	37.16	38.03	37.97	37.72	1.29	ppb
Beryllium	9-1	0.60	0.64	0.59	0.61	4.99	ppb
Bismuth	209-1				109		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.13	0.17	0.24	0.18	33.04	ppb
Cadmium	106-1	-1.35	-1.06	-2.34	-1.58		ppb
Cadmium	111-1	-0.08	-0.04	-0.16	-0.09		ppb
Calcium	43-1	1472.17	1524.13	1502.07	1499.45	1.74	ppb
Calcium	44-1	1510.32	1521.69	1523.16	1518.39	0.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	27.34	27.05	26.96	27.11	0.73	ppb
Cobalt	59-2	5.90	5.96	5.89	5.91	0.65	ppb
Copper	63-2	10.31	10.17	10.29	10.26	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				103		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	56-2	10340.95	10429.89	10303.03	10357.96	0.63	ppb
Iron	57-2	10358.35	10397.97	10299.20	10351.84	0.48	ppb
Iron	54-2	10525.23	10484.24	10238.96	10416.14	1.49	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	7.69	7.86	7.85	7.80	1.28	ppb
Lead	207-1	7.03	7.04	7.12	7.07	0.69	ppb
Lead	208-1	7.26	7.42	7.39	7.36	1.20	ppb
Lithium	6-1				111		%
Magnesium	24-2	2999.49	3005.98	3059.60	3021.69	1.09	ppb
Manganese	55-2	82.72	82.01	81.63	82.12	0.67	ppb
Molybdenum	94-1	0.81	0.81	0.77	0.80	3.41	ppb
Molybdenum	95-1	0.18	0.18	0.17	0.18	2.43	ppb
Molybdenum	96-1	0.35	0.33	0.30	0.33	7.30	ppb
Molybdenum	97-1	0.21	0.15	0.19	0.18	16.49	ppb
Molybdenum	98-1	0.16	0.20	0.17	0.18	10.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.53	17.97	18.04	18.18	1.65	ppb
Phosphorus	31-2	391.26	388.71	388.69	389.55	0.38	ppb
Potassium	39-2	751.44	752.82	750.08	751.45	0.18	ppb
Rhodium	103-1				95		%
Rhodium	103-2				99		%
Scandium	45-1				88		%
Scandium	45-2				93		%
Selenium	82-1	0.05	0.12	0.34	0.17	86.74	ppb
Selenium	77-2	2.39	1.74	2.41	2.18	17.57	ppb
Selenium	78-2	0.53	0.23	-2.22	-0.49		ppb
Silicon	28-1	145.02	147.55	151.09	147.88	2.06	ppb
Silver	107-1	0.07	0.07	0.07	0.07	6.30	ppb
Silver	109-1	0.07	0.08	0.09	0.08	8.61	ppb
Sodium	23-2	266.68	263.98	265.30	265.32	0.51	ppb
Strontium	86-1	178.98	185.12	178.62	180.91	2.02	ppb
Strontium	88-1	184.87	188.67	185.14	186.22	1.14	ppb
Sulfur	34-1	-1279.17	-1323.43	-1333.40	-1312.00		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.10	0.12	0.11	0.11	6.69	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	1.49	ppb
Tin	118-1	1.33	1.47	1.62	1.47	9.61	ppb
Titanium	47-1	491.47	498.63	498.96	496.35	0.85	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.85	0.87	0.85	0.86	1.22	ppb
Vanadium	51-2	17.16	17.31	17.08	17.18	0.68	ppb
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	33.11	33.53	33.40	33.35	0.65	ppb
Zirconium	90-1	0.34	0.36	0.36	0.36	3.30	ppb
Zirconium	91-1	0.37	0.38	0.37	0.37	1.21	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13753.83	13864.11	13756.16	13791.37	0.46	ppb
Antimony	121-1	0.22	0.21	0.20	0.21	4.75	ppb
Arsenic	75-2	42.22	40.92	42.74	41.96	2.24	ppb
Barium	135-1	91.31	94.16	90.40	91.96	2.13	ppb
Barium	137-1	92.08	95.40	91.62	93.03	2.21	ppb
Beryllium	9-1	0.73	0.86	0.71	0.77	10.43	ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	54.68	57.30	53.87	55.29	3.24	ppb
Cadmium	106-1	37.88	36.78	35.36	36.67	3.46	ppb
Cadmium	111-1	0.21	0.00	0.05	0.08	129.70	ppb
Calcium	43-1	2458.01	2580.48	2495.64	2511.38	2.50	ppb
Calcium	44-1	2481.95	2598.42	2502.22	2527.53	2.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3209.88	3228.40	3183.44	3207.24	0.70	ppb
Cobalt	59-2	7.55	7.51	7.57	7.54	0.39	ppb
Copper	63-2	2251.25	2255.81	2260.32	2255.79	0.20	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				101		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	56-2	17103.40	17016.99	16921.40	17013.93	0.54	ppb
Iron	57-2	17046.03	16731.86	16792.82	16856.90	0.99	ppb
Iron	54-2	19243.46	19260.60	18939.23	19147.76	0.94	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	144.11	147.31	144.33	145.25	1.23	ppb
Lead	207-1	130.88	133.39	129.45	131.24	1.52	ppb
Lead	208-1	141.44	144.23	140.40	142.02	1.40	ppb
Lithium	6-1				111		%
Magnesium	24-2	3471.28	3419.13	3361.30	3417.24	1.61	ppb
Manganese	55-2	258.96	257.06	255.01	257.01	0.77	ppb
Molybdenum	94-1	2.12	2.06	2.09	2.09	1.38	ppb
Molybdenum	95-1	1.49	1.50	1.49	1.49	0.31	ppb
Molybdenum	96-1	1.67	1.74	1.68	1.70	2.17	ppb
Molybdenum	97-1	1.43	1.51	1.47	1.47	2.73	ppb
Molybdenum	98-1	1.46	1.57	1.46	1.50	4.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	66.12	65.22	65.40	65.58	0.73	ppb
Phosphorus	31-2	784.15	784.25	788.07	785.49	0.28	ppb
Potassium	39-2	1341.30	1336.94	1328.54	1335.59	0.49	ppb
Rhodium	103-1				92		%
Rhodium	103-2				97		%
Scandium	45-1				86		%
Scandium	45-2				91		%
Selenium	82-1	0.47	1.04	1.25	0.92	43.61	ppb
Selenium	77-2	5.55	4.85	4.26	4.89	13.25	ppb
Selenium	78-2	1.30	0.23	-0.44	0.36	242.59	ppb
Silicon	28-1	139.32	146.77	139.14	141.74	3.07	ppb
Silver	107-1	2.87	3.01	2.89	2.93	2.60	ppb
Silver	109-1	2.86	3.01	2.85	2.91	3.03	ppb
Sodium	23-2	406.04	410.68	408.35	408.35	0.57	ppb
Strontium	86-1	476.42	492.11	472.61	480.38	2.15	ppb
Strontium	88-1	480.78	499.88	478.96	486.54	2.38	ppb
Sulfur	34-1	541.28	696.43	562.15	599.95	14.03	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	0.18	0.19	0.19	0.19	1.60	ppb
Thallium	205-1	0.20	0.19	0.20	0.20	1.04	ppb
Tin	118-1	828.11	848.81	821.42	832.78	1.71	ppb
Titanium	47-1	398.97	411.89	397.60	402.82	1.96	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	3.97	4.04	3.93	3.98	1.43	ppb
Vanadium	51-2	26.52	26.72	26.56	26.60	0.40	ppb
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	74.46	75.44	73.98	74.63	1.00	ppb
Zirconium	90-1	0.47	0.49	0.46	0.48	2.96	ppb
Zirconium	91-1	0.43	0.45	0.50	0.46	8.46	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19099.11	20475.63	19534.19	19702.97	3.57	ppb
Antimony	121-1	0.97	0.99	0.98	0.98	1.41	ppb
Arsenic	75-2	295.02	310.22	295.95	300.40	2.84	ppb
Barium	135-1	268.52	274.79	276.04	273.12	1.47	ppb
Barium	137-1	268.69	275.33	276.13	273.38	1.49	ppb
Beryllium	9-1	2.67	2.64	2.64	2.65	0.72	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	33.33	34.02	31.56	32.97	3.86	ppb
Cadmium	106-1	24.91	24.61	24.59	24.70	0.71	ppb
Cadmium	111-1	2.75	2.69	2.87	2.77	3.32	ppb
Calcium	43-1	13821.14	14134.88	14307.21	14087.74	1.75	ppb
Calcium	44-1	13312.04	13615.21	13566.25	13497.83	1.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2798.30	2956.04	2845.76	2866.70	2.82	ppb
Cobalt	59-2	35.48	37.57	36.04	36.37	2.97	ppb
Copper	63-2	1560.40	1645.17	1621.92	1609.16	2.72	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				104		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	56-2	171851.74	182528.32	175925.43	176768.50	3.05	ppb
Iron	57-2	168869.78	178082.41	171689.90	172880.69	2.73	ppb
Iron	54-2	171849.34	182052.37	175557.61	176486.44	2.93	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	239.87	239.92	241.93	240.58	0.49	ppb
Lead	207-1	201.87	204.89	205.94	204.23	1.03	ppb
Lead	208-1	222.92	227.47	227.37	225.92	1.15	ppb
Lithium	6-1				111		%
Magnesium	24-2	5064.81	5361.00	5170.47	5198.76	2.89	ppb
Manganese	55-2	2092.24	2254.24	2179.47	2175.32	3.73	ppb
Molybdenum	94-1	5.46	5.52	5.47	5.49	0.62	ppb
Molybdenum	95-1	4.28	4.41	4.35	4.34	1.52	ppb
Molybdenum	96-1	5.69	5.79	5.78	5.75	0.92	ppb
Molybdenum	97-1	4.28	4.33	4.47	4.36	2.24	ppb
Molybdenum	98-1	4.24	4.31	4.40	4.32	1.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	130.77	137.55	132.59	133.64	2.63	ppb
Phosphorus	31-2	3036.98	3178.43	3075.64	3097.02	2.36	ppb
Potassium	39-2	2273.79	2457.61	2289.74	2340.38	4.35	ppb
Rhodium	103-1				93		%
Rhodium	103-2				96		%
Scandium	45-1				87		%
Scandium	45-2				90		%
Selenium	82-1	1.64	2.05	1.98	1.89	11.53	ppb
Selenium	77-2	8.27	10.07	7.70	8.68	14.23	ppb
Selenium	78-2	1.67	3.73	2.61	2.67	38.57	ppb
Silicon	28-1	455.48	465.17	468.28	462.98	1.44	ppb
Silver	107-1	3.16	3.24	3.27	3.22	1.88	ppb
Silver	109-1	3.16	3.24	3.31	3.24	2.37	ppb
Sodium	23-2	1999.41	2148.15	2084.00	2077.19	3.59	ppb
Strontium	86-1	2139.85	2194.30	2208.74	2180.96	1.67	ppb
Strontium	88-1	2211.03	2272.91	2259.04	2247.66	1.44	ppb
Sulfur	34-1	5481.66	5689.68	5754.74	5642.02	2.53	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.43	0.44	0.46	0.44	2.80	ppb
Thallium	205-1	0.45	0.46	0.45	0.45	1.32	ppb
Tin	118-1	479.96	485.93	483.37	483.09	0.62	ppb
Titanium	47-1	697.59	717.87	725.60	713.69	2.03	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.80	6.01	6.01	5.94	2.02	ppb
Vanadium	51-2	72.76	77.19	73.90	74.62	3.08	ppb
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	494.47	525.86	503.36	507.89	3.19	ppb
Zirconium	90-1	0.98	1.03	1.04	1.01	3.18	ppb
Zirconium	91-1	1.00	1.09	1.09	1.06	4.82	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8132.60	8219.25	8159.67	8170.50	0.54	ppb
Antimony	121-1	0.22	0.22	0.23	0.23	1.87	ppb
Arsenic	75-2	11.84	11.72	11.79	11.78	0.51	ppb
Barium	135-1	52.13	54.11	54.69	53.64	2.51	ppb
Barium	137-1	52.74	54.44	55.16	54.12	2.29	ppb
Beryllium	9-1	0.51	0.56	0.59	0.55	7.30	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	38.36	40.68	40.23	39.76	3.09	ppb
Cadmium	106-1	27.01	26.05	27.35	26.81	2.52	ppb
Cadmium	111-1	0.26	0.09	0.19	0.18	48.48	ppb
Calcium	43-1	2023.48	2089.01	2116.23	2076.24	2.30	ppb
Calcium	44-1	2049.98	2109.13	2102.96	2087.36	1.56	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1562.33	1556.14	1552.91	1557.13	0.31	ppb
Cobalt	59-2	5.08	4.98	5.08	5.05	1.13	ppb
Copper	63-2	2629.83	2610.54	2632.86	2624.41	0.46	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				104		%
Holmium	165-2				100		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	56-2	10233.17	10228.46	10181.00	10214.21	0.28	ppb
Iron	57-2	10355.97	10209.11	10374.37	10313.15	0.88	ppb
Iron	54-2	11600.65	11324.40	11355.41	11426.82	1.32	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	181.72	189.96	187.02	186.23	2.24	ppb
Lead	207-1	159.06	165.44	164.04	162.85	2.06	ppb
Lead	208-1	175.27	182.41	180.79	179.49	2.09	ppb
Lithium	6-1				110		%
Magnesium	24-2	1876.59	1859.13	1871.47	1869.06	0.48	ppb
Manganese	55-2	117.72	116.49	117.83	117.35	0.64	ppb
Molybdenum	94-1	1.96	1.95	1.89	1.94	1.95	ppb
Molybdenum	95-1	1.58	1.49	1.50	1.52	3.11	ppb
Molybdenum	96-1	1.64	1.72	1.73	1.70	3.09	ppb
Molybdenum	97-1	1.53	1.56	1.52	1.54	1.39	ppb
Molybdenum	98-1	1.51	1.54	1.56	1.54	1.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	188.31	185.10	186.12	186.51	0.88	ppb
Phosphorus	31-2	574.20	576.31	562.84	571.12	1.27	ppb
Potassium	39-2	839.42	823.55	844.29	835.75	1.30	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				89		%
Scandium	45-2				91		%
Selenium	82-1	0.53	1.18	1.39	1.03	43.18	ppb
Selenium	77-2	7.60	5.85	4.90	6.12	22.37	ppb
Selenium	78-2	2.46	0.80	1.03	1.43	63.08	ppb
Silicon	28-1	111.45	115.99	114.93	114.12	2.09	ppb
Silver	107-1	3.05	3.12	3.16	3.11	1.83	ppb
Silver	109-1	3.08	3.06	3.11	3.09	0.89	ppb
Sodium	23-2	399.76	395.38	398.30	397.81	0.56	ppb
Strontium	86-1	364.02	370.92	374.97	369.97	1.50	ppb
Strontium	88-1	364.57	373.67	374.70	370.98	1.50	ppb
Sulfur	34-1	2495.32	2623.75	2538.36	2552.48	2.56	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.13	0.14	0.16	0.14	10.66	ppb
Thallium	205-1	0.13	0.13	0.14	0.13	3.91	ppb
Tin	118-1	454.85	464.92	467.64	462.47	1.46	ppb
Titanium	47-1	295.43	306.25	306.04	302.57	2.04	ppb

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LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.69	4.87	4.77	4.77	1.85	ppb
Vanadium	51-2	15.19	14.98	14.98	15.05	0.80	ppb
Yttrium	89-1				98		%
Yttrium	89-2				97		%
Zinc	66-2	303.13	297.76	299.07	299.98	0.93	ppb
Zirconium	90-1	0.37	0.41	0.41	0.40	5.94	ppb
Zirconium	91-1	0.42	0.42	0.40	0.41	4.00	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22180.64	22567.72	22123.82	22290.73	1.08	ppb
Antimony	121-1	0.83	0.80	0.87	0.83	4.47	ppb
Arsenic	75-2	82.45	83.06	81.34	82.28	1.06	ppb
Barium	135-1	256.10	258.80	260.78	258.56	0.91	ppb
Barium	137-1	256.54	260.63	261.71	259.62	1.05	ppb
Beryllium	9-1	1.93	1.87	1.59	1.80	9.89	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.48	1.52	1.83	1.61	12.09	ppb
Cadmium	106-1	-0.08	0.51	0.49	0.31	110.47	ppb
Cadmium	111-1	1.19	1.22	1.16	1.19	2.53	ppb
Calcium	43-1	35048.85	35203.33	35257.58	35169.92	0.31	ppb
Calcium	44-1	33579.21	33834.19	33843.09	33752.16	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51.46	51.70	51.28	51.48	0.41	ppb
Cobalt	59-2	12.76	12.90	12.79	12.82	0.59	ppb
Copper	63-2	35.82	35.92	35.42	35.72	0.74	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				104		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	56-2	30627.07	30889.64	30252.52	30589.74	1.05	ppb
Iron	57-2	30368.80	30296.26	30148.15	30271.07	0.37	ppb
Iron	54-2	30679.71	31076.24	30210.71	30655.55	1.41	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	94.98	97.19	96.73	96.30	1.21	ppb
Lead	207-1	88.61	90.09	90.53	89.74	1.12	ppb
Lead	208-1	94.37	92.95	96.63	94.65	1.96	ppb
Lithium	6-1				111		%
Magnesium	24-2	6626.98	6753.20	6735.09	6705.09	1.02	ppb
Manganese	55-2	253.58	255.89	253.30	254.26	0.56	ppb
Molybdenum	94-1	7.13	7.27	7.22	7.21	0.97	ppb
Molybdenum	95-1	4.03	4.06	4.07	4.05	0.50	ppb
Molybdenum	96-1	4.60	4.68	4.58	4.62	1.12	ppb
Molybdenum	97-1	4.06	3.98	4.12	4.05	1.74	ppb
Molybdenum	98-1	4.11	4.01	4.05	4.06	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	68.54	70.12	68.41	69.02	1.38	ppb
Phosphorus	31-2	1483.80	1438.37	1449.50	1457.23	1.62	ppb
Potassium	39-2	1716.82	1733.65	1716.57	1722.35	0.57	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				89		%
Scandium	45-2				92		%
Selenium	82-1	4.40	4.17	3.96	4.18	5.32	ppb
Selenium	77-2	13.49	14.61	15.45	14.52	6.78	ppb
Selenium	78-2	4.22	6.09	5.10	5.14	18.29	ppb
Silicon	28-1	159.38	160.66	161.22	160.42	0.59	ppb
Silver	107-1	0.50	0.51	0.51	0.51	1.68	ppb
Silver	109-1	0.51	0.50	0.50	0.50	1.05	ppb
Sodium	23-2	2261.55	2311.74	2289.28	2287.52	1.10	ppb
Strontium	86-1	5217.58	5326.06	5237.35	5260.33	1.10	ppb
Strontium	88-1	5338.12	5405.35	5329.58	5357.68	0.77	ppb
Sulfur	34-1	7300.80	7610.04	7745.68	7552.18	3.02	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.65	0.62	0.63	0.64	2.22	ppb
Thallium	205-1	0.64	0.64	0.64	0.64	0.41	ppb
Tin	118-1	2.97	2.98	2.86	2.94	2.22	ppb
Titanium	47-1	561.94	565.30	571.15	566.13	0.82	ppb

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Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	51.41	53.39	52.90	52.57	1.96	ppb
Vanadium	51-2	68.88	69.32	68.28	68.83	0.76	ppb
Yttrium	89-1				102		%
Yttrium	89-2				103		%
Zinc	66-2	115.71	117.00	118.64	117.12	1.25	ppb
Zirconium	90-1	2.12	2.18	2.15	2.15	1.34	ppb
Zirconium	91-1	2.15	2.24	2.18	2.19	1.98	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49132.02	50774.89	50905.88	50270.93	1.97	ppb
Antimony	121-1	490.36	495.01	500.21	495.19	0.99	ppb
Arsenic	75-2	508.90	542.91	531.91	527.91	3.29	ppb
Barium	135-1	2476.89	2501.84	2499.17	2492.63	0.55	ppb
Barium	137-1	2449.90	2495.96	2494.60	2480.15	1.06	ppb
Beryllium	9-1	479.34	494.28	491.47	488.36	1.63	ppb
Bismuth	209-1				102		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	488.88	497.01	493.44	493.11	0.83	ppb
Cadmium	106-1	496.56	494.37	496.06	495.67	0.23	ppb
Cadmium	111-1	479.49	488.07	491.66	486.41	1.29	ppb
Calcium	43-1	249483.54	252106.62	251092.23	250894.13	0.53	ppb
Calcium	44-1	248962.04	250663.09	251566.76	250397.30	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.68	527.68	530.74	521.03	2.73	ppb
Cobalt	59-2	514.87	544.20	544.87	534.65	3.20	ppb
Copper	63-2	5073.36	5319.86	5354.53	5249.25	2.92	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				103		%
Holmium	165-2				98		%
Indium	115-1				91		%
Indium	115-2				86		%
Iron	56-2	129184.81	134818.98	136744.03	133582.61	2.94	ppb
Iron	57-2	128825.51	134233.50	134384.72	132481.24	2.39	ppb
Iron	54-2	129032.94	133855.74	136622.63	133170.44	2.88	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2496.23	2540.39	2517.19	2517.94	0.88	ppb
Lead	207-1	2468.22	2526.97	2552.81	2516.00	1.72	ppb
Lead	208-1	2497.55	2548.84	2532.24	2526.21	1.04	ppb
Lithium	6-1				102		%
Magnesium	24-2	250015.39	260096.00	260268.90	256793.43	2.29	ppb
Manganese	55-2	4998.61	5198.92	5295.40	5164.31	2.93	ppb
Molybdenum	94-1	5052.66	4983.42	5046.96	5027.68	0.76	ppb
Molybdenum	95-1	5034.19	4951.36	5048.11	5011.22	1.04	ppb
Molybdenum	96-1	5004.32	4986.93	5065.07	5018.77	0.82	ppb
Molybdenum	97-1	5002.65	4964.53	5026.68	4997.95	0.63	ppb
Molybdenum	98-1	5009.94	4973.36	5056.02	5013.11	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	506.08	532.59	529.70	522.79	2.78	ppb
Phosphorus	31-2	9779.21	10223.47	10240.88	10081.19	2.60	ppb
Potassium	39-2	122249.02	127683.90	128314.56	126082.49	2.64	ppb
Rhodium	103-1				85		%
Rhodium	103-2				86		%
Scandium	45-1				86		%
Scandium	45-2				87		%
Selenium	82-1	491.52	489.50	493.82	491.61	0.44	ppb
Selenium	77-2	484.48	518.51	497.71	500.23	3.43	ppb
Selenium	78-2	486.16	519.98	509.81	505.32	3.43	ppb
Silicon	28-1	510.16	522.92	523.32	518.80	1.44	ppb
Silver	107-1	477.17	481.69	477.39	478.75	0.53	ppb
Silver	109-1	475.00	480.41	487.49	480.97	1.30	ppb
Sodium	23-2	252851.63	262971.27	264500.32	260107.74	2.43	ppb
Strontium	86-1	12702.25	12434.92	12766.95	12634.71	1.39	ppb
Strontium	88-1	12591.14	12637.45	12640.47	12623.02	0.22	ppb
Sulfur	34-1	9336.32	9332.18	9347.81	9338.77	0.09	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	504.28	512.87	506.57	507.91	0.88	ppb
Thallium	205-1	500.47	509.31	511.01	506.93	1.12	ppb
Tin	118-1	488.29	494.78	501.31	494.79	1.32	ppb
Titanium	47-1	4939.73	5001.80	4983.82	4975.12	0.64	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	506.52	515.89	519.06	513.82	1.27	ppb
Vanadium	51-2	516.01	533.69	531.02	526.91	1.81	ppb
Yttrium	89-1				92		%
Yttrium	89-2				90		%
Zinc	66-2	5087.81	5349.99	5322.39	5253.40	2.74	ppb
Zirconium	90-1	502.94	508.17	514.28	508.46	1.12	ppb
Zirconium	91-1	505.24	495.67	509.58	503.50	1.41	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.72	2.96	3.26	3.31	11.65	ppb
Antimony	121-1	0.12	0.11	0.10	0.11	10.37	ppb
Arsenic	75-2	0.01	0.02	-0.01	0.00	355.41	ppb
Barium	135-1	0.29	0.22	0.20	0.24	18.91	ppb
Barium	137-1	0.28	0.22	0.19	0.23	20.06	ppb
Beryllium	9-1	0.06	0.11	0.07	0.08	36.86	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	-0.02	0.02	0.00	0.00		ppb
Cadmium	106-1	-3.90	-3.14	-3.63	-3.56		ppb
Cadmium	111-1	-0.23	-0.16	-0.22	-0.20		ppb
Calcium	43-1	25.97	26.78	19.44	24.06	16.74	ppb
Calcium	44-1	29.22	24.68	20.04	24.65	18.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.05	0.08	0.07	24.74	ppb
Cobalt	59-2	0.04	0.02	0.02	0.03	30.34	ppb
Copper	63-2	0.28	0.32	0.27	0.29	8.38	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				103		%
Holmium	165-2				102		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	56-2	10.21	9.33	8.52	9.35	9.01	ppb
Iron	57-2	7.05	5.72	5.88	6.22	11.69	ppb
Iron	54-2	9.76	9.73	8.90	9.47	5.18	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.35	0.32	0.27	0.31	13.90	ppb
Lead	207-1	0.34	0.31	0.26	0.30	12.35	ppb
Lead	208-1	0.34	0.31	0.27	0.31	11.64	ppb
Lithium	6-1				106		%
Magnesium	24-2	16.22	14.28	12.66	14.39	12.37	ppb
Manganese	55-2	0.34	0.33	0.34	0.34	1.96	ppb
Molybdenum	94-1	0.67	0.58	0.54	0.60	11.20	ppb
Molybdenum	95-1	0.60	0.54	0.44	0.53	15.12	ppb
Molybdenum	96-1	0.61	0.52	0.49	0.54	12.20	ppb
Molybdenum	97-1	0.61	0.56	0.47	0.55	12.77	ppb
Molybdenum	98-1	0.61	0.55	0.47	0.54	12.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.21	-0.12	-0.13		ppb
Phosphorus	31-2	-18.00	-18.98	-17.46	-18.15		ppb
Potassium	39-2	1.89	0.06	1.29	1.08	86.04	ppb
Rhodium	103-1				94		%
Rhodium	103-2				98		%
Scandium	45-1				87		%
Scandium	45-2				91		%
Selenium	82-1	0.15	-0.31	0.02	-0.04		ppb
Selenium	77-2	0.11	-0.05	0.11	0.06	168.05	ppb
Selenium	78-2	-1.13	-0.40	-0.80	-0.78		ppb
Silicon	28-1	-4.50	-4.40	-4.47	-4.46		ppb
Silver	107-1	0.07	0.07	0.06	0.07	9.07	ppb
Silver	109-1	0.08	0.07	0.06	0.07	15.36	ppb
Sodium	23-2	48.05	43.77	43.11	44.98	5.96	ppb
Strontium	86-1	1.32	1.39	0.94	1.22	19.98	ppb
Strontium	88-1	1.54	1.42	1.24	1.40	10.96	ppb
Sulfur	34-1	-739.03	-662.24	-694.93	-698.74		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.09	0.08	0.07	0.08	16.58	ppb
Thallium	205-1	0.09	0.08	0.07	0.08	14.73	ppb
Tin	118-1	0.05	0.05	0.06	0.06	4.81	ppb
Titanium	47-1	0.53	0.49	0.41	0.47	12.90	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.05	0.04	0.04	0.04	19.84	ppb
Vanadium	51-2	0.04	0.03	0.03	0.03	10.24	ppb
Yttrium	89-1				94		%
Yttrium	89-2				96		%
Zinc	66-2	0.43	0.25	0.39	0.36	25.98	ppb
Zirconium	90-1	0.08	0.08	0.08	0.08	3.29	ppb
Zirconium	91-1	0.08	0.07	0.08	0.08	8.73	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9592.72	9530.90	9462.14	9528.59	0.69	ppb
Antimony	121-1	59.96	62.51	63.64	62.03	3.04	ppb
Arsenic	75-2	431.44	439.75	430.35	433.85	1.19	ppb
Barium	135-1	840.28	852.60	866.21	853.03	1.52	ppb
Barium	137-1	828.63	848.65	846.22	841.17	1.30	ppb
Beryllium	9-1	343.69	347.70	355.80	349.06	1.77	ppb
Bismuth	209-1				111		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	229.84	233.32	236.68	233.28	1.47	ppb
Cadmium	106-1	222.48	231.75	231.96	228.73	2.37	ppb
Cadmium	111-1	250.90	259.71	259.40	256.67	1.95	ppb
Calcium	43-1	13104.27	13448.59	13344.47	13299.11	1.33	ppb
Calcium	44-1	12398.00	12896.67	12687.37	12660.68	1.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	571.53	567.48	574.40	571.14	0.61	ppb
Cobalt	59-2	422.57	430.28	421.60	424.82	1.12	ppb
Copper	63-2	311.66	313.27	311.64	312.19	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				104		%
Holmium	165-2				103		%
Indium	115-1				98		%
Indium	115-2				96		%
Iron	56-2	11682.44	11658.85	11585.65	11642.31	0.43	ppb
Iron	57-2	11704.96	11708.90	11689.63	11701.16	0.09	ppb
Iron	54-2	11913.60	12062.05	11987.53	11987.73	0.62	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	354.61	364.45	361.30	360.12	1.40	ppb
Lead	207-1	338.92	344.57	338.78	340.76	0.97	ppb
Lead	208-1	342.63	352.42	349.74	348.26	1.45	ppb
Lithium	6-1				114		%
Magnesium	24-2	3484.91	3536.93	3495.26	3505.70	0.79	ppb
Manganese	55-2	977.61	987.44	992.95	986.00	0.79	ppb
Molybdenum	94-1	103.74	109.80	110.68	108.07	3.50	ppb
Molybdenum	95-1	97.68	101.84	103.38	100.97	2.92	ppb
Molybdenum	96-1	98.23	101.73	102.97	100.98	2.43	ppb
Molybdenum	97-1	98.13	101.67	103.30	101.03	2.61	ppb
Molybdenum	98-1	97.27	101.59	103.36	100.74	3.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	279.12	280.18	278.27	279.19	0.34	ppb
Phosphorus	31-2	493.48	503.34	527.22	508.01	3.41	ppb
Potassium	39-2	2756.80	2700.63	2683.39	2713.61	1.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				97		%
Scandium	45-1				89		%
Scandium	45-2				92		%
Selenium	82-1	215.68	225.44	230.20	223.77	3.31	ppb
Selenium	77-2	232.30	227.05	221.81	227.06	2.31	ppb
Selenium	78-2	223.44	234.82	227.21	228.49	2.54	ppb
Silicon	28-1	117.51	119.26	118.13	118.30	0.75	ppb
Silver	107-1	78.92	81.66	82.62	81.07	2.37	ppb
Silver	109-1	78.13	80.45	81.70	80.09	2.26	ppb
Sodium	23-2	1077.13	1081.65	1064.98	1074.59	0.80	ppb
Strontium	86-1	11934.21	12281.74	12461.01	12225.65	2.19	ppb
Strontium	88-1	11872.54	12328.84	12422.54	12207.97	2.41	ppb
Sulfur	34-1	-844.55	-862.76	-985.07	-897.46		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	388.09	403.57	401.49	397.71	2.11	ppb
Thallium	205-1	391.15	397.13	399.60	395.96	1.10	ppb
Tin	118-1	74.05	76.83	77.03	75.97	2.19	ppb
Titanium	47-1	438.79	455.46	454.83	449.69	2.10	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	393.85	399.55	408.19	400.53	1.80	ppb
Vanadium	51-2	269.90	271.75	271.07	270.91	0.34	ppb
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	938.39	939.58	930.36	936.11	0.54	ppb
Zirconium	90-1	13.43	14.10	14.34	13.96	3.36	ppb
Zirconium	91-1	13.59	14.16	14.04	13.93	2.14	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10150.98	10174.19	10211.88	10179.02	0.30	ppb
Antimony	121-1	45.80	51.27	52.39	49.82	7.08	ppb
Arsenic	75-2	370.26	357.36	357.21	361.61	2.07	ppb
Barium	135-1	717.11	798.51	811.81	775.81	6.61	ppb
Barium	137-1	717.37	797.11	811.41	775.30	6.54	ppb
Beryllium	9-1	244.63	276.52	274.73	265.29	6.75	ppb
Bismuth	209-1				114		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	256.76	281.72	289.24	275.91	6.16	ppb
Cadmium	106-1	247.33	277.62	282.67	269.20	7.10	ppb
Cadmium	111-1	278.90	313.68	317.40	303.33	7.00	ppb
Calcium	43-1	11395.94	12845.11	12905.82	12382.29	6.90	ppb
Calcium	44-1	10868.80	12210.98	12461.76	11847.18	7.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	375.62	368.23	373.09	372.31	1.01	ppb
Cobalt	59-2	386.03	393.11	396.53	391.89	1.37	ppb
Copper	63-2	659.68	657.36	648.13	655.06	0.93	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				103		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	56-2	12461.77	12565.79	12504.92	12510.83	0.42	ppb
Iron	57-2	12618.16	12682.31	12670.82	12657.10	0.27	ppb
Iron	54-2	13022.19	12829.37	12843.50	12898.35	0.83	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	527.63	589.40	583.23	566.75	6.00	ppb
Lead	207-1	488.86	552.61	556.61	532.70	7.14	ppb
Lead	208-1	501.05	565.46	567.92	544.81	6.96	ppb
Lithium	6-1				118		%
Magnesium	24-2	3800.82	3804.28	3759.62	3788.24	0.66	ppb
Manganese	55-2	1069.30	1064.35	1062.13	1065.26	0.34	ppb
Molybdenum	94-1	205.17	230.99	236.27	224.14	7.42	ppb
Molybdenum	95-1	220.55	247.42	252.80	240.26	7.19	ppb
Molybdenum	96-1	219.94	245.65	250.75	238.78	6.92	ppb
Molybdenum	97-1	224.35	251.23	255.17	243.58	6.89	ppb
Molybdenum	98-1	227.41	254.78	257.32	246.50	6.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	454.06	453.44	454.30	453.93	0.10	ppb
Phosphorus	31-2	571.44	574.17	564.00	569.87	0.92	ppb
Potassium	39-2	2743.62	2737.62	2775.14	2752.12	0.73	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				93		%
Scandium	45-2				93		%
Selenium	82-1	351.79	398.17	407.76	385.90	7.76	ppb
Selenium	77-2	421.01	397.19	408.36	408.85	2.91	ppb
Selenium	78-2	415.47	403.12	399.27	405.96	2.08	ppb
Silicon	28-1	58.23	68.89	68.19	65.10	9.16	ppb
Silver	107-1	72.38	81.50	82.40	78.76	7.03	ppb
Silver	109-1	72.21	81.24	82.50	78.65	7.13	ppb
Sodium	23-2	1091.80	1089.18	1085.13	1088.70	0.31	ppb
Strontium	86-1	4704.80	5310.48	5378.44	5131.24	7.23	ppb
Strontium	88-1	4866.88	5431.24	5485.28	5261.14	6.51	ppb
Sulfur	34-1	-1428.72	-1103.87	-1040.59	-1191.06		ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	208.59	231.84	229.72	223.38	5.75	ppb
Thallium	205-1	209.83	235.23	232.03	225.70	6.13	ppb
Tin	118-1	95.42	106.44	108.71	103.52	6.86	ppb
Titanium	47-1	536.49	612.06	611.92	586.82	7.43	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	122.02	135.49	135.32	130.94	5.90	ppb
Vanadium	51-2	393.03	389.16	393.53	391.91	0.61	ppb
Yttrium	89-1				102		%
Yttrium	89-2				98		%
Zinc	66-2	517.06	522.31	512.58	517.32	0.94	ppb
Zirconium	90-1	13.31	15.09	15.31	14.57	7.53	ppb
Zirconium	91-1	13.57	15.28	15.31	14.72	6.77	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20480.49	20792.68	20618.59	20630.59	0.76	ppb
Antimony	121-1	0.75	0.67	0.69	0.71	5.86	ppb
Arsenic	75-2	8.36	8.06	8.08	8.16	2.04	ppb
Barium	135-1	137.80	137.73	135.93	137.15	0.77	ppb
Barium	137-1	137.72	138.76	137.10	137.86	0.61	ppb
Beryllium	9-1	3.17	3.20	3.33	3.23	2.69	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.07	1.21	0.63	0.97	31.26	ppb
Cadmium	106-1	0.03	0.46	-0.42	0.02	1863.00	ppb
Cadmium	111-1	0.86	0.80	0.76	0.81	6.05	ppb
Calcium	43-1	18296.29	18418.75	18707.91	18474.32	1.14	ppb
Calcium	44-1	17623.21	17748.91	18009.34	17793.82	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41.95	41.89	42.34	42.06	0.58	ppb
Cobalt	59-2	4.15	4.02	4.06	4.08	1.59	ppb
Copper	63-2	48.49	48.01	48.74	48.41	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				105		%
Holmium	165-2				106		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	12800.14	12565.84	12486.68	12617.55	1.29	ppb
Iron	57-2	12860.01	12742.09	12857.86	12819.99	0.53	ppb
Iron	54-2	12702.16	12693.97	12798.63	12731.59	0.46	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	174.54	176.35	176.22	175.70	0.58	ppb
Lead	207-1	164.12	166.45	166.58	165.72	0.83	ppb
Lead	208-1	174.98	178.72	177.45	177.05	1.08	ppb
Lithium	6-1				110		%
Magnesium	24-2	1986.26	1988.93	1998.00	1991.06	0.31	ppb
Manganese	55-2	167.61	166.56	169.41	167.86	0.86	ppb
Molybdenum	94-1	3.46	3.41	3.27	3.38	2.82	ppb
Molybdenum	95-1	1.86	1.84	1.76	1.82	2.86	ppb
Molybdenum	96-1	2.17	2.11	2.09	2.12	2.10	ppb
Molybdenum	97-1	1.79	1.91	1.80	1.84	3.69	ppb
Molybdenum	98-1	1.79	1.85	1.80	1.81	1.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.28	19.06	19.25	19.20	0.61	ppb
Phosphorus	31-2	2137.07	2087.39	2080.32	2101.59	1.47	ppb
Potassium	39-2	1031.71	1012.45	1031.90	1025.35	1.09	ppb
Rhodium	103-1				95		%
Rhodium	103-2				100		%
Scandium	45-1				90		%
Scandium	45-2				95		%
Selenium	82-1	3.47	3.84	2.91	3.41	13.68	ppb
Selenium	77-2	16.25	9.56	13.38	13.07	25.68	ppb
Selenium	78-2	4.71	2.85	3.36	3.64	26.35	ppb
Silicon	28-1	57.22	58.26	72.23	62.57	13.40	ppb
Silver	107-1	0.38	0.37	0.36	0.37	2.30	ppb
Silver	109-1	0.40	0.39	0.35	0.38	6.73	ppb
Sodium	23-2	454.77	453.92	456.38	455.03	0.27	ppb
Strontium	86-1	3385.11	3433.37	3438.04	3418.84	0.86	ppb
Strontium	88-1	3460.60	3536.25	3563.47	3520.11	1.51	ppb
Sulfur	34-1	3575.62	3712.67	3773.69	3687.33	2.75	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.52	0.50	0.45	0.49	7.29	ppb
Thallium	205-1	0.54	0.48	0.45	0.49	9.31	ppb
Tin	118-1	0.88	0.83	0.84	0.85	3.27	ppb
Titanium	47-1	124.37	125.98	127.20	125.85	1.13	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	9.16	9.23	9.18	9.19	0.40	ppb
Vanadium	51-2	30.05	30.18	30.30	30.18	0.42	ppb
Yttrium	89-1				100		%
Yttrium	89-2				104		%
Zinc	66-2	105.21	104.70	105.50	105.14	0.38	ppb
Zirconium	90-1	1.01	1.02	1.01	1.01	0.62	ppb
Zirconium	91-1	1.07	0.96	1.01	1.01	5.50	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5634.40	5651.16	5802.28	5695.95	1.62	ppb
Antimony	121-1	0.07	0.07	0.08	0.07	4.19	ppb
Arsenic	75-2	1.39	1.50	1.50	1.46	4.38	ppb
Barium	135-1	40.45	39.87	39.44	39.92	1.27	ppb
Barium	137-1	40.44	40.39	40.21	40.35	0.30	ppb
Beryllium	9-1	0.91	0.80	0.88	0.87	6.29	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.35	0.27	0.26	0.29	16.02	ppb
Cadmium	106-1	-0.69	-1.97	-1.26	-1.30		ppb
Cadmium	111-1	0.19	0.13	0.21	0.18	22.35	ppb
Calcium	43-1	2403.00	2388.58	2355.44	2382.34	1.02	ppb
Calcium	44-1	2408.21	2393.33	2363.52	2388.35	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.71	18.68	18.88	18.76	0.56	ppb
Cobalt	59-2	1.97	2.01	2.05	2.01	1.94	ppb
Copper	63-2	4.37	4.34	4.46	4.39	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				101		%
Holmium	165-2				102		%
Indium	115-1				96		%
Indium	115-2				97		%
Iron	56-2	2736.81	2762.65	2701.60	2733.69	1.12	ppb
Iron	57-2	2774.49	2782.31	2770.77	2775.86	0.21	ppb
Iron	54-2	2829.72	2819.67	2841.08	2830.16	0.38	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	12.58	12.47	12.40	12.48	0.71	ppb
Lead	207-1	11.84	11.58	11.56	11.66	1.34	ppb
Lead	208-1	12.05	11.94	11.88	11.95	0.72	ppb
Lithium	6-1				107		%
Magnesium	24-2	618.45	631.11	624.66	624.74	1.01	ppb
Manganese	55-2	126.93	127.28	127.39	127.20	0.19	ppb
Molybdenum	94-1	0.88	0.96	0.92	0.92	4.35	ppb
Molybdenum	95-1	0.68	0.64	0.61	0.64	5.20	ppb
Molybdenum	96-1	0.75	0.69	0.72	0.72	4.44	ppb
Molybdenum	97-1	0.62	0.65	0.63	0.63	1.90	ppb
Molybdenum	98-1	0.66	0.63	0.64	0.64	2.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.83	8.87	9.09	8.93	1.57	ppb
Phosphorus	31-2	484.57	500.46	486.62	490.55	1.76	ppb
Potassium	39-2	440.39	443.25	438.93	440.86	0.50	ppb
Rhodium	103-1				93		%
Rhodium	103-2				98		%
Scandium	45-1				88		%
Scandium	45-2				93		%
Selenium	82-1	1.93	2.39	2.39	2.24	11.75	ppb
Selenium	77-2	4.32	4.55	5.34	4.74	11.25	ppb
Selenium	78-2	0.83	2.82	0.91	1.52	73.97	ppb
Silicon	28-1	49.54	49.54	48.64	49.24	1.05	ppb
Silver	107-1	0.13	0.14	0.13	0.13	4.07	ppb
Silver	109-1	0.13	0.14	0.13	0.13	3.03	ppb
Sodium	23-2	81.78	83.09	81.10	81.99	1.24	ppb
Strontium	86-1	343.31	338.10	325.42	335.61	2.74	ppb
Strontium	88-1	341.23	334.62	335.31	337.05	1.08	ppb
Sulfur	34-1	-330.39	-497.90	-578.62	-468.97		ppb
Terbium	159-1				100		%
Terbium	159-2				102		%
Thallium	203-1	0.10	0.11	0.10	0.10	6.88	ppb
Thallium	205-1	0.12	0.11	0.10	0.11	5.42	ppb
Tin	118-1	0.28	0.28	0.25	0.27	5.15	ppb
Titanium	47-1	61.29	60.67	60.47	60.81	0.71	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	4.11	4.12	4.00	4.07	1.59	ppb
Vanadium	51-2	5.32	5.47	5.49	5.43	1.67	ppb
Yttrium	89-1				95		%
Yttrium	89-2				98		%
Zinc	66-2	23.87	23.20	23.94	23.67	1.74	ppb
Zirconium	90-1	0.24	0.49	0.23	0.32	47.12	ppb
Zirconium	91-1	0.23	0.25	0.22	0.23	5.74	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23798.83	24104.05	24278.23	24060.37	1.01	ppb
Antimony	121-1	0.91	0.95	0.94	0.93	2.46	ppb
Arsenic	75-2	52.12	50.22	50.90	51.08	1.89	ppb
Barium	135-1	128.37	133.59	132.50	131.49	2.09	ppb
Barium	137-1	128.03	133.75	133.06	131.61	2.37	ppb
Beryllium	9-1	1.80	1.85	1.82	1.82	1.46	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.05	2.49	2.23	2.26	9.86	ppb
Cadmium	106-1	2.42	1.64	1.47	1.84	27.73	ppb
Cadmium	111-1	1.78	1.74	1.74	1.75	1.32	ppb
Calcium	43-1	39348.76	41068.63	41218.23	40545.21	2.56	ppb
Calcium	44-1	37911.35	39741.76	39781.16	39144.76	2.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52.86	52.76	52.53	52.72	0.32	ppb
Cobalt	59-2	19.32	19.36	19.14	19.28	0.61	ppb
Copper	63-2	36.15	36.05	35.45	35.88	1.06	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				99		%
Indium	115-2				99		%
Iron	56-2	45751.30	46013.87	45619.45	45794.87	0.44	ppb
Iron	57-2	45378.81	45505.98	45249.71	45378.17	0.28	ppb
Iron	54-2	45792.77	46118.78	46369.50	46093.68	0.63	ppb
Krypton	83-1						cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	92.23	95.40	95.17	94.27	1.88	ppb
Lead	207-1	86.96	89.89	88.82	88.56	1.67	ppb
Lead	208-1	88.71	91.57	91.39	90.56	1.77	ppb
Lithium	6-1				113		%
Magnesium	24-2	8561.19	8764.23	8690.28	8671.90	1.18	ppb
Manganese	55-2	780.51	792.86	792.26	788.55	0.88	ppb
Molybdenum	94-1	12.44	12.98	12.75	12.72	2.13	ppb
Molybdenum	95-1	1.16	1.20	1.21	1.19	2.11	ppb
Molybdenum	96-1	2.75	2.77	2.74	2.75	0.65	ppb
Molybdenum	97-1	1.14	1.21	1.17	1.17	3.25	ppb
Molybdenum	98-1	1.13	1.15	1.19	1.16	2.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	58.54	59.49	58.72	58.91	0.85	ppb
Phosphorus	31-2	1931.21	1955.72	1898.55	1928.49	1.49	ppb
Potassium	39-2	1831.72	1826.47	1827.28	1828.49	0.15	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	5.48	5.88	6.15	5.84	5.75	ppb
Selenium	77-2	13.25	15.05	14.64	14.31	6.58	ppb
Selenium	78-2	6.91	6.40	6.52	6.61	3.99	ppb
Silicon	28-1	64.90	69.41	68.40	67.57	3.50	ppb
Silver	107-1	0.57	0.61	0.59	0.59	2.82	ppb
Silver	109-1	0.59	0.62	0.61	0.60	2.58	ppb
Sodium	23-2	251.45	252.70	253.00	252.38	0.32	ppb
Strontium	86-1	3552.82	3679.53	3690.55	3640.97	2.10	ppb
Strontium	88-1	3652.79	3742.68	3800.95	3732.14	2.00	ppb
Sulfur	34-1	7412.75	8029.07	8029.02	7823.62	4.55	ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.35	0.35	0.37	0.36	2.58	ppb
Thallium	205-1	0.35	0.36	0.35	0.35	0.95	ppb
Tin	118-1	0.64	0.69	0.66	0.66	3.85	ppb
Titanium	47-1	668.67	706.63	707.66	694.32	3.20	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	8.33	8.61	8.58	8.51	1.85	ppb
Vanadium	51-2	61.53	61.58	62.00	61.70	0.42	ppb
Yttrium	89-1				104		%
Yttrium	89-2				105		%
Zinc	66-2	217.34	219.15	217.07	217.85	0.52	ppb
Zirconium	90-1	6.34	6.55	6.58	6.49	2.03	ppb
Zirconium	91-1	6.32	6.70	6.58	6.53	3.02	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12638.40	12608.18	12425.93	12557.50	0.92	ppb
Antimony	121-1	0.14	0.13	0.16	0.15	9.91	ppb
Arsenic	75-2	23.39	23.48	23.13	23.33	0.78	ppb
Barium	135-1	42.26	43.19	43.67	43.04	1.67	ppb
Barium	137-1	42.28	43.44	43.94	43.22	1.98	ppb
Beryllium	9-1	0.66	0.59	0.66	0.63	6.43	ppb
Bismuth	209-1				106		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.41	0.20	0.68	0.43	55.05	ppb
Cadmium	106-1	-0.49	-0.97	-1.36	-0.94		ppb
Cadmium	111-1	0.19	0.19	0.13	0.17	20.32	ppb
Calcium	43-1	4469.22	4671.26	4625.95	4588.81	2.31	ppb
Calcium	44-1	4295.47	4502.62	4457.97	4418.69	2.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	32.86	32.78	32.91	32.85	0.21	ppb
Cobalt	59-2	8.84	8.86	8.65	8.79	1.31	ppb
Copper	63-2	10.06	9.99	9.78	9.94	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				102		%
Holmium	165-2				103		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	56-2	16270.84	16290.48	16149.57	16236.96	0.47	ppb
Iron	57-2	16087.96	16080.77	15721.31	15963.35	1.31	ppb
Iron	54-2	16122.30	16597.52	16021.11	16246.98	1.89	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	27.21	27.69	27.43	27.44	0.88	ppb
Lead	207-1	25.53	26.09	25.70	25.77	1.11	ppb
Lead	208-1	26.12	26.56	26.47	26.38	0.86	ppb
Lithium	6-1				110		%
Magnesium	24-2	3927.99	3963.31	3849.64	3913.65	1.49	ppb
Manganese	55-2	282.70	286.02	282.33	283.68	0.72	ppb
Molybdenum	94-1	4.99	4.99	4.90	4.96	1.10	ppb
Molybdenum	95-1	0.69	0.74	0.70	0.71	3.76	ppb
Molybdenum	96-1	1.24	1.40	1.28	1.31	6.10	ppb
Molybdenum	97-1	0.70	0.65	0.68	0.67	3.31	ppb
Molybdenum	98-1	0.71	0.72	0.72	0.72	1.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.18	27.90	27.80	27.63	1.42	ppb
Phosphorus	31-2	509.24	517.92	519.64	515.60	1.08	ppb
Potassium	39-2	384.34	388.14	382.75	385.08	0.72	ppb
Rhodium	103-1				96		%
Rhodium	103-2				99		%
Scandium	45-1				92		%
Scandium	45-2				97		%
Selenium	82-1	1.34	0.77	1.18	1.10	26.56	ppb
Selenium	77-2	5.48	3.77	4.48	4.58	18.79	ppb
Selenium	78-2	1.50	1.24	-0.22	0.84	110.47	ppb
Silicon	28-1	57.08	59.15	59.84	58.69	2.44	ppb
Silver	107-1	0.16	0.18	0.19	0.18	6.55	ppb
Silver	109-1	0.16	0.17	0.19	0.18	7.31	ppb
Sodium	23-2	99.59	101.43	99.93	100.32	0.98	ppb
Strontium	86-1	590.83	608.54	599.18	599.52	1.48	ppb
Strontium	88-1	594.83	613.49	612.44	606.92	1.73	ppb
Sulfur	34-1	29.65	26.90	-81.67	-8.37		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.13	0.13	0.13	0.13	1.69	ppb
Thallium	205-1	0.14	0.14	0.13	0.13	2.28	ppb
Tin	118-1	0.21	0.21	0.18	0.20	8.01	ppb
Titanium	47-1	404.73	421.86	420.00	415.53	2.26	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	5.40	5.53	5.52	5.48	1.28	ppb
Vanadium	51-2	26.53	27.23	26.94	26.90	1.30	ppb
Yttrium	89-1				98		%
Yttrium	89-2				101		%
Zinc	66-2	52.78	53.31	53.29	53.12	0.56	ppb
Zirconium	90-1	2.43	2.41	2.47	2.44	1.28	ppb
Zirconium	91-1	2.34	2.47	2.55	2.45	4.28	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40056.48	40211.79	40007.87	40092.05	0.27	ppb
Antimony	121-1	0.71	0.75	0.76	0.74	3.93	ppb
Arsenic	75-2	80.18	78.44	77.89	78.83	1.52	ppb
Barium	135-1	152.05	164.66	165.80	160.84	4.75	ppb
Barium	137-1	153.05	164.67	166.27	161.33	4.47	ppb
Beryllium	9-1	2.26	2.47	2.40	2.38	4.51	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	2.15	2.24	2.65	2.34	11.44	ppb
Cadmium	106-1	1.54	3.13	2.88	2.52	33.90	ppb
Cadmium	111-1	1.57	1.85	1.94	1.79	10.54	ppb
Calcium	43-1	19840.69	21661.23	21504.27	21002.06	4.80	ppb
Calcium	44-1	19082.40	20552.47	20715.71	20116.86	4.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	94.64	94.82	96.64	95.37	1.16	ppb
Cobalt	59-2	30.65	30.34	31.03	30.67	1.13	ppb
Copper	63-2	38.70	38.82	39.06	38.86	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				108		%
Holmium	165-2				106		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	56-2	59815.91	59208.75	60036.44	59687.03	0.72	ppb
Iron	57-2	58308.54	58129.66	58648.78	58362.33	0.45	ppb
Iron	54-2	59804.03	59671.31	60237.03	59904.12	0.49	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	136.10	144.18	147.62	142.63	4.15	ppb
Lead	207-1	127.54	134.45	138.79	133.59	4.25	ppb
Lead	208-1	136.32	144.42	149.15	143.30	4.53	ppb
Lithium	6-1				114		%
Magnesium	24-2	10476.71	10421.15	10565.67	10487.84	0.70	ppb
Manganese	55-2	1451.83	1437.88	1442.59	1444.10	0.49	ppb
Molybdenum	94-1	13.51	14.96	14.81	14.43	5.53	ppb
Molybdenum	95-1	3.01	3.14	3.19	3.11	2.87	ppb
Molybdenum	96-1	4.52	4.85	5.03	4.80	5.38	ppb
Molybdenum	97-1	2.81	3.15	3.30	3.09	8.14	ppb
Molybdenum	98-1	2.94	3.17	3.16	3.09	4.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	91.90	91.69	92.47	92.02	0.44	ppb
Phosphorus	31-2	2873.31	2883.70	2862.37	2873.12	0.37	ppb
Potassium	39-2	1021.65	1027.70	1046.62	1031.99	1.26	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				102		%
Selenium	82-1	4.14	4.09	4.81	4.34	9.32	ppb
Selenium	77-2	19.74	17.26	20.46	19.16	8.76	ppb
Selenium	78-2	7.25	5.57	6.68	6.50	13.15	ppb
Silicon	28-1	60.37	68.48	67.35	65.40	6.72	ppb
Silver	107-1	0.67	0.69	0.71	0.69	2.28	ppb
Silver	109-1	0.64	0.69	0.73	0.69	6.76	ppb
Sodium	23-2	436.86	440.00	445.48	440.78	0.99	ppb
Strontium	86-1	2431.96	2608.86	2629.73	2556.85	4.25	ppb
Strontium	88-1	2494.93	2714.84	2682.64	2630.81	4.51	ppb
Sulfur	34-1	5972.33	6788.35	6795.84	6518.84	7.26	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	0.38	0.41	0.41	0.40	4.49	ppb
Thallium	205-1	0.38	0.40	0.41	0.40	3.30	ppb
Tin	118-1	0.45	0.49	0.48	0.47	3.41	ppb
Titanium	47-1	1010.43	1118.20	1089.90	1072.84	5.21	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	33.23	35.27	36.11	34.87	4.25	ppb
Vanadium	51-2	78.68	77.93	79.01	78.54	0.70	ppb
Yttrium	89-1				110		%
Yttrium	89-2				111		%
Zinc	66-2	211.80	211.53	215.47	212.94	1.03	ppb
Zirconium	90-1	6.14	6.71	6.73	6.52	5.11	ppb
Zirconium	91-1	6.12	6.74	6.67	6.51	5.20	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	42608.38	42326.54	42179.75	42371.56	0.51	ppb
Antimony	121-1	0.62	0.62	0.63	0.62	0.84	ppb
Arsenic	75-2	71.46	73.16	73.02	72.55	1.31	ppb
Barium	135-1	169.57	170.61	168.41	169.53	0.65	ppb
Barium	137-1	169.43	171.98	170.57	170.66	0.75	ppb
Beryllium	9-1	2.35	2.47	2.32	2.38	3.30	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.94	2.09	2.15	2.06	5.33	ppb
Cadmium	106-1	3.23	2.36	2.66	2.75	16.07	ppb
Cadmium	111-1	1.66	1.65	1.60	1.64	1.94	ppb
Calcium	43-1	20841.63	21080.83	21040.06	20987.50	0.61	ppb
Calcium	44-1	19936.23	20638.37	20188.33	20254.31	1.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	100.08	100.31	99.96	100.12	0.17	ppb
Cobalt	59-2	31.54	31.06	31.43	31.34	0.82	ppb
Copper	63-2	37.08	36.47	36.85	36.80	0.84	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				100		%
Indium	115-2				101		%
Iron	56-2	61793.65	61495.71	62026.54	61771.97	0.43	ppb
Iron	57-2	61581.10	60693.15	60802.88	61025.71	0.79	ppb
Iron	54-2	62309.16	61965.34	62686.72	62320.41	0.58	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	135.45	139.56	139.36	138.12	1.68	ppb
Lead	207-1	128.57	129.98	131.65	130.06	1.19	ppb
Lead	208-1	138.06	139.60	141.03	139.56	1.06	ppb
Lithium	6-1				111		%
Magnesium	24-2	11155.18	11062.43	10972.26	11063.29	0.83	ppb
Manganese	55-2	1429.88	1421.89	1424.72	1425.50	0.28	ppb
Molybdenum	94-1	14.01	14.35	14.31	14.22	1.30	ppb
Molybdenum	95-1	2.67	2.64	2.61	2.64	1.16	ppb
Molybdenum	96-1	4.29	4.37	4.37	4.34	1.08	ppb
Molybdenum	97-1	2.63	2.66	2.66	2.65	0.75	ppb
Molybdenum	98-1	2.59	2.67	2.60	2.62	1.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	94.68	93.84	94.07	94.20	0.46	ppb
Phosphorus	31-2	3043.70	3032.67	3086.11	3054.16	0.92	ppb
Potassium	39-2	1116.27	1103.40	1117.12	1112.27	0.69	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				98		%
Scandium	45-2				102		%
Selenium	82-1	4.10	4.49	3.70	4.10	9.65	ppb
Selenium	77-2	21.05	18.73	23.11	20.96	10.46	ppb
Selenium	78-2	6.52	7.60	6.90	7.00	7.85	ppb
Silicon	28-1	70.60	73.83	77.85	74.09	4.90	ppb
Silver	107-1	0.75	0.72	0.75	0.74	2.41	ppb
Silver	109-1	0.73	0.75	0.75	0.74	1.20	ppb
Sodium	23-2	443.90	436.86	441.24	440.67	0.81	ppb
Strontium	86-1	2489.28	2551.51	2545.42	2528.74	1.36	ppb
Strontium	88-1	2572.51	2602.50	2613.54	2596.18	0.82	ppb
Sulfur	34-1	5978.84	6050.62	5965.47	5998.31	0.76	ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.38	0.39	0.37	0.38	2.95	ppb
Thallium	205-1	0.38	0.38	0.38	0.38	0.62	ppb
Tin	118-1	0.52	0.52	0.52	0.52	0.67	ppb
Titanium	47-1	1140.28	1159.73	1179.65	1159.89	1.70	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	33.21	33.59	33.96	33.59	1.12	ppb
Vanadium	51-2	80.90	79.58	80.45	80.31	0.84	ppb
Yttrium	89-1				109		%
Yttrium	89-2				112		%
Zinc	66-2	206.26	202.31	205.86	204.81	1.06	ppb
Zirconium	90-1	6.68	6.75	6.67	6.70	0.60	ppb
Zirconium	91-1	6.64	6.91	6.73	6.76	2.00	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21867.62	21266.64	21647.43	21593.90	1.41	ppb
Antimony	121-1	0.81	0.84	0.81	0.82	1.88	ppb
Arsenic	75-2	456.80	450.88	450.54	452.74	0.78	ppb
Barium	135-1	96.60	98.41	97.19	97.40	0.95	ppb
Barium	137-1	96.99	97.83	97.11	97.31	0.47	ppb
Beryllium	9-1	4.06	4.06	4.15	4.09	1.33	ppb
Bismuth	209-1				110		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	53.36	50.93	50.38	51.56	3.08	ppb
Cadmium	106-1	36.36	35.31	34.49	35.38	2.64	ppb
Cadmium	111-1	1.64	1.72	1.66	1.67	2.39	ppb
Calcium	43-1	19387.05	19344.28	19232.78	19321.37	0.41	ppb
Calcium	44-1	18525.81	18636.22	18637.88	18599.97	0.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	885.13	888.64	890.89	888.22	0.33	ppb
Cobalt	59-2	6.50	6.47	6.36	6.44	1.14	ppb
Copper	63-2	3570.75	3577.26	3474.73	3540.91	1.62	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				106		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	56-2	87768.70	87119.66	85907.74	86932.03	1.09	ppb
Iron	57-2	85506.12	85861.78	84262.62	85210.17	0.99	ppb
Iron	54-2	88548.83	88842.55	87566.48	88319.29	0.76	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	140.39	141.21	140.59	140.73	0.30	ppb
Lead	207-1	124.23	124.54	125.42	124.73	0.50	ppb
Lead	208-1	136.23	136.10	136.39	136.24	0.10	ppb
Lithium	6-1				111		%
Magnesium	24-2	2562.77	2550.60	2539.09	2550.82	0.46	ppb
Manganese	55-2	390.62	389.44	384.29	388.12	0.87	ppb
Molybdenum	94-1	5.04	5.10	4.98	5.04	1.12	ppb
Molybdenum	95-1	4.61	4.82	4.87	4.77	2.91	ppb
Molybdenum	96-1	5.52	5.52	5.50	5.52	0.17	ppb
Molybdenum	97-1	4.82	4.85	4.96	4.88	1.47	ppb
Molybdenum	98-1	4.73	4.80	4.80	4.77	0.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	259.02	260.96	256.58	258.85	0.85	ppb
Phosphorus	31-2	2803.80	2749.98	2791.06	2781.61	1.01	ppb
Potassium	39-2	1020.02	1017.23	1017.55	1018.27	0.15	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	1.47	1.52	1.57	1.52	3.19	ppb
Selenium	77-2	3.84	4.30	3.66	3.93	8.34	ppb
Selenium	78-2	1.92	0.57	1.14	1.21	55.77	ppb
Silicon	28-1	128.78	125.83	127.68	127.43	1.17	ppb
Silver	107-1	12.34	12.49	12.45	12.43	0.63	ppb
Silver	109-1	12.30	12.34	12.27	12.31	0.26	ppb
Sodium	23-2	502.76	504.80	500.21	502.59	0.46	ppb
Strontium	86-1	2545.47	2575.42	2530.86	2550.58	0.89	ppb
Strontium	88-1	2584.81	2651.67	2612.26	2616.25	1.28	ppb
Sulfur	34-1	7278.33	7146.95	7106.29	7177.19	1.25	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	0.28	0.28	0.29	0.28	2.07	ppb
Thallium	205-1	0.30	0.28	0.28	0.29	4.79	ppb
Tin	118-1	318.59	317.62	309.79	315.33	1.53	ppb
Titanium	47-1	321.28	318.15	317.12	318.85	0.68	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.63	1.62	1.64	1.63	0.59	ppb
Vanadium	51-2	34.60	34.96	34.55	34.70	0.64	ppb
Yttrium	89-1				104		%
Yttrium	89-2				103		%
Zinc	66-2	1189.47	1188.66	1184.02	1187.39	0.25	ppb
Zirconium	90-1	0.58	0.59	0.58	0.59	1.33	ppb
Zirconium	91-1	0.67	0.67	0.67	0.67	0.30	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17616.95	17449.21	17237.28	17434.48	1.09	ppb
Antimony	121-1	0.90	0.90	0.91	0.90	0.61	ppb
Arsenic	75-2	40.69	42.06	40.80	41.18	1.85	ppb
Barium	135-1	350.67	361.40	361.63	357.90	1.75	ppb
Barium	137-1	368.00	377.60	375.12	373.57	1.33	ppb
Beryllium	9-1	2.22	2.21	2.28	2.24	1.60	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	15.33	16.87	18.06	16.76	8.19	ppb
Cadmium	106-1	11.80	11.78	10.79	11.46	5.05	ppb
Cadmium	111-1	1.35	1.39	1.29	1.34	3.72	ppb
Calcium	43-1	37370.40	39412.81	38899.44	38560.88	2.76	ppb
Calcium	44-1	36302.37	38313.37	37711.58	37442.44	2.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1060.51	1064.88	1067.94	1064.44	0.35	ppb
Cobalt	59-2	284.68	288.72	287.12	286.84	0.71	ppb
Copper	63-2	2379.03	2373.74	2313.91	2355.56	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				107		%
Holmium	165-2				105		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	125644.06	125532.18	125465.72	125547.32	0.07	ppb
Iron	57-2	124774.93	122987.59	121894.98	123219.16	1.18	ppb
Iron	54-2	126495.11	127065.46	126965.08	126841.88	0.24	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	100.08	102.07	102.70	101.62	1.35	ppb
Lead	207-1	91.25	92.68	93.80	92.58	1.38	ppb
Lead	208-1	98.51	99.55	101.15	99.74	1.33	ppb
Lithium	6-1				110		%
Magnesium	24-2	2278.48	2280.95	2265.26	2274.89	0.37	ppb
Manganese	55-2	29298.09	29259.78	29294.57	29284.14	0.07	ppb
Molybdenum	94-1	3.82	3.90	3.90	3.88	1.14	ppb
Molybdenum	95-1	4.32	4.35	4.32	4.33	0.49	ppb
Molybdenum	96-1	4.67	4.84	4.80	4.77	1.87	ppb
Molybdenum	97-1	3.66	3.79	3.73	3.72	1.76	ppb
Molybdenum	98-1	3.64	3.82	3.74	3.73	2.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	720.86	723.30	715.62	719.92	0.54	ppb
Phosphorus	31-2	1884.46	1928.01	1917.06	1909.84	1.19	ppb
Potassium	39-2	2166.58	2157.01	2198.33	2173.98	0.99	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				93		%
Scandium	45-2				94		%
Selenium	82-1	1.49	1.26	1.40	1.38	8.61	ppb
Selenium	77-2	8.82	6.53	8.02	7.79	14.95	ppb
Selenium	78-2	0.93	1.22	-0.19	0.65	114.02	ppb
Silicon	28-1	139.10	142.99	139.89	140.66	1.46	ppb
Silver	107-1	3.05	3.17	3.16	3.13	2.10	ppb
Silver	109-1	3.09	3.14	3.12	3.11	0.81	ppb
Sodium	23-2	825.28	826.99	821.26	824.51	0.36	ppb
Strontium	86-1	4456.17	4565.32	4612.10	4544.53	1.76	ppb
Strontium	88-1	4610.11	4665.62	4750.18	4675.30	1.51	ppb
Sulfur	34-1	3331.07	3622.11	3549.13	3500.77	4.33	ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.70	0.72	0.74	0.72	2.93	ppb
Thallium	205-1	0.69	0.71	0.71	0.70	1.49	ppb
Tin	118-1	69.06	71.07	71.55	70.56	1.87	ppb
Titanium	47-1	192.86	203.32	201.12	199.10	2.77	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.56	2.58	2.66	2.60	1.99	ppb
Vanadium	51-2	25.03	25.24	25.01	25.09	0.51	ppb
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	206.17	206.35	203.44	205.32	0.79	ppb
Zirconium	90-1	0.40	0.41	0.42	0.41	2.90	ppb
Zirconium	91-1	0.38	0.42	0.46	0.42	10.63	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6826.15	7087.19	7009.37	6974.24	1.92	ppb
Antimony	121-1	0.18	0.23	0.22	0.21	11.79	ppb
Arsenic	75-2	41.59	42.04	41.74	41.79	0.55	ppb
Barium	135-1	22.53	28.49	28.24	26.42	12.77	ppb
Barium	137-1	23.07	28.33	28.76	26.72	11.85	ppb
Beryllium	9-1	0.34	0.39	0.40	0.38	9.01	ppb
Bismuth	209-1				117		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.93	1.58	1.23	1.25	26.23	ppb
Cadmium	106-1	-1.28	-1.35	-2.80	-1.81		ppb
Cadmium	111-1	0.07	0.09	-0.01	0.05	105.22	ppb
Calcium	43-1	1680.66	2118.17	2145.45	1981.43	13.16	ppb
Calcium	44-1	1671.69	2103.89	2129.79	1968.46	13.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	172.70	175.03	174.62	174.11	0.71	ppb
Cobalt	59-2	13.06	13.12	13.15	13.11	0.36	ppb
Copper	63-2	90.93	91.60	91.49	91.34	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				112		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				99		%
Iron	56-2	17852.70	18000.26	17840.28	17897.75	0.50	ppb
Iron	57-2	17578.71	17464.34	17380.13	17474.39	0.57	ppb
Iron	54-2	17938.44	18052.45	17985.80	17992.23	0.32	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	42.11	52.23	53.85	49.40	12.88	ppb
Lead	207-1	39.00	47.91	49.23	45.38	12.26	ppb
Lead	208-1	39.99	49.43	50.95	46.79	12.69	ppb
Lithium	6-1				114		%
Magnesium	24-2	2022.29	2055.90	2030.81	2036.33	0.86	ppb
Manganese	55-2	521.29	513.15	508.17	514.20	1.29	ppb
Molybdenum	94-1	1.71	2.15	2.13	1.99	12.41	ppb
Molybdenum	95-1	1.65	2.03	2.04	1.91	11.53	ppb
Molybdenum	96-1	1.72	2.23	2.20	2.05	14.12	ppb
Molybdenum	97-1	1.61	2.03	2.02	1.89	12.58	ppb
Molybdenum	98-1	1.55	2.00	2.00	1.85	14.05	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	27.04	28.34	27.94	27.77	2.39	ppb
Phosphorus	31-2	382.82	413.98	398.31	398.37	3.91	ppb
Potassium	39-2	546.06	557.23	550.65	551.32	1.02	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	0.20	0.07	0.64	0.30	99.06	ppb
Selenium	77-2	2.32	3.07	2.00	2.46	22.45	ppb
Selenium	78-2	-0.28	1.10	0.29	0.37	187.45	ppb
Silicon	28-1	80.90	105.64	107.90	98.15	15.26	ppb
Silver	107-1	0.14	0.15	0.16	0.15	5.96	ppb
Silver	109-1	0.13	0.14	0.13	0.13	5.62	ppb
Sodium	23-2	171.18	175.94	173.66	173.59	1.37	ppb
Strontium	86-1	234.20	293.09	300.12	275.80	13.13	ppb
Strontium	88-1	236.29	297.24	302.34	278.62	13.19	ppb
Sulfur	34-1	-1604.54	-965.93	-1031.93	-1200.80		ppb
Terbium	159-1				112		%
Terbium	159-2				104		%
Thallium	203-1	0.10	0.12	0.12	0.11	7.21	ppb
Thallium	205-1	0.11	0.11	0.11	0.11	1.37	ppb
Tin	118-1	9.39	11.70	11.80	10.96	12.46	ppb
Titanium	47-1	284.68	365.85	368.35	339.63	14.02	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.94	1.17	1.17	1.09	12.39	ppb
Vanadium	51-2	18.93	19.25	19.10	19.09	0.83	ppb
Yttrium	89-1				106		%
Yttrium	89-2				102		%
Zinc	66-2	67.47	68.13	68.94	68.18	1.08	ppb
Zirconium	90-1	0.21	0.27	0.29	0.26	16.85	ppb
Zirconium	91-1	0.23	0.25	0.27	0.25	8.52	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6922.32	6905.78	6928.07	6918.72	0.17	ppb
Antimony	121-1	0.17	0.23	0.23	0.21	17.24	ppb
Arsenic	75-2	51.78	52.11	53.91	52.60	2.18	ppb
Barium	135-1	22.22	27.98	28.88	26.36	13.72	ppb
Barium	137-1	22.19	28.11	28.67	26.32	13.65	ppb
Beryllium	9-1	0.29	0.34	0.45	0.36	22.60	ppb
Bismuth	209-1				119		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.92	1.25	1.24	1.13	16.39	ppb
Cadmium	106-1	-0.38	-1.93	-1.54	-1.29		ppb
Cadmium	111-1	0.12	0.09	0.08	0.10	24.24	ppb
Calcium	43-1	1681.61	2214.66	2204.09	2033.45	14.99	ppb
Calcium	44-1	1699.13	2178.17	2234.45	2037.25	14.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	158.61	158.07	157.97	158.22	0.22	ppb
Cobalt	59-2	11.41	11.52	11.42	11.45	0.51	ppb
Copper	63-2	82.76	83.47	83.13	83.12	0.42	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				101		%
Iron	56-2	20688.39	20333.80	20447.84	20490.01	0.88	ppb
Iron	57-2	20187.56	19964.72	19857.87	20003.38	0.84	ppb
Iron	54-2	20622.55	20712.55	20499.12	20611.41	0.52	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	37.09	47.60	48.46	44.38	14.26	ppb
Lead	207-1	34.06	43.79	44.82	40.89	14.51	ppb
Lead	208-1	35.09	45.12	46.06	42.09	14.44	ppb
Lithium	6-1				115		%
Magnesium	24-2	1986.82	1980.05	1985.28	1984.05	0.18	ppb
Manganese	55-2	460.37	447.65	455.26	454.43	1.41	ppb
Molybdenum	94-1	2.26	2.81	2.90	2.66	12.95	ppb
Molybdenum	95-1	2.18	2.88	2.89	2.65	15.25	ppb
Molybdenum	96-1	2.35	2.96	3.04	2.79	13.63	ppb
Molybdenum	97-1	2.20	2.86	2.84	2.64	14.20	ppb
Molybdenum	98-1	2.28	2.88	2.91	2.69	13.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	28.10	27.89	28.04	28.01	0.38	ppb
Phosphorus	31-2	410.40	405.28	406.49	407.39	0.66	ppb
Potassium	39-2	528.99	533.70	529.37	530.68	0.49	ppb
Rhodium	103-1				110		%
Rhodium	103-2				104		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	0.14	0.73	0.50	0.46	64.52	ppb
Selenium	77-2	3.28	2.09	3.04	2.80	22.44	ppb
Selenium	78-2	-0.22	0.33	1.02	0.38	166.14	ppb
Silicon	28-1	73.85	96.73	98.79	89.79	15.42	ppb
Silver	107-1	0.09	0.12	0.13	0.11	19.28	ppb
Silver	109-1	0.10	0.13	0.13	0.12	16.11	ppb
Sodium	23-2	123.57	124.36	126.24	124.72	1.10	ppb
Strontium	86-1	233.42	300.02	305.54	279.66	14.35	ppb
Strontium	88-1	236.15	301.91	305.73	281.27	13.91	ppb
Sulfur	34-1	-1887.99	-1267.88	-1204.74	-1453.53		ppb
Terbium	159-1				115		%
Terbium	159-2				105		%
Thallium	203-1	0.08	0.10	0.10	0.09	12.22	ppb
Thallium	205-1	0.08	0.10	0.11	0.09	12.50	ppb
Tin	118-1	8.66	11.04	11.50	10.40	14.64	ppb
Titanium	47-1	271.39	346.33	356.19	324.64	14.29	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	1.17	1.18	1.09	13.66	ppb
Vanadium	51-2	18.85	18.94	18.92	18.90	0.25	ppb
Yttrium	89-1				112		%
Yttrium	89-2				105		%
Zinc	66-2	65.03	65.13	65.37	65.18	0.27	ppb
Zirconium	90-1	0.19	0.25	0.25	0.23	14.62	ppb
Zirconium	91-1	0.20	0.23	0.26	0.23	12.51	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13602.86	13657.96	13575.08	13611.97	0.31	ppb
Antimony	121-1	0.06	0.06	0.05	0.06	7.72	ppb
Arsenic	75-2	8.61	8.55	8.70	8.62	0.90	ppb
Barium	135-1	32.97	37.95	39.05	36.66	8.84	ppb
Barium	137-1	33.54	37.95	38.60	36.70	7.51	ppb
Beryllium	9-1	0.40	0.56	0.43	0.46	17.81	ppb
Bismuth	209-1				112		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.25	0.07	0.16	0.16	57.12	ppb
Cadmium	106-1	-2.31	-1.63	-2.49	-2.14		ppb
Cadmium	111-1	-0.03	0.05	-0.02	0.00	7422.37	ppb
Calcium	43-1	1135.09	1298.59	1292.37	1242.02	7.46	ppb
Calcium	44-1	1119.72	1312.63	1312.61	1248.32	8.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	25.28	25.61	25.15	25.35	0.93	ppb
Cobalt	59-2	3.08	3.11	3.10	3.10	0.38	ppb
Copper	63-2	5.71	6.13	5.68	5.84	4.35	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				110		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	56-2	10629.21	10630.88	10574.67	10611.59	0.30	ppb
Iron	57-2	10665.59	10807.03	10653.48	10708.70	0.80	ppb
Iron	54-2	10691.83	10751.05	10587.71	10676.86	0.77	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	38.25	42.58	43.87	41.57	7.08	ppb
Lead	207-1	35.51	40.35	40.55	38.80	7.36	ppb
Lead	208-1	36.42	40.87	41.76	39.68	7.20	ppb
Lithium	6-1				106		%
Magnesium	24-2	2526.71	2560.57	2523.15	2536.81	0.81	ppb
Manganese	55-2	97.04	97.25	97.09	97.13	0.11	ppb
Molybdenum	94-1	1.26	1.43	1.44	1.38	7.11	ppb
Molybdenum	95-1	0.54	0.63	0.58	0.58	7.67	ppb
Molybdenum	96-1	0.67	0.76	0.76	0.73	7.20	ppb
Molybdenum	97-1	0.53	0.61	0.62	0.59	9.17	ppb
Molybdenum	98-1	0.53	0.60	0.61	0.58	7.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.44	11.54	11.01	11.33	2.49	ppb
Phosphorus	31-2	405.63	430.89	436.55	424.36	3.88	ppb
Potassium	39-2	512.97	510.26	511.99	511.74	0.27	ppb
Rhodium	103-1				104		%
Rhodium	103-2				102		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	0.60	1.13	0.86	0.86	30.51	ppb
Selenium	77-2	2.33	1.68	3.25	2.42	32.62	ppb
Selenium	78-2	0.55	0.13	0.17	0.28	80.57	ppb
Silicon	28-1	77.26	91.10	90.54	86.30	9.08	ppb
Silver	107-1	0.06	0.07	0.07	0.07	7.91	ppb
Silver	109-1	0.06	0.07	0.08	0.07	17.53	ppb
Sodium	23-2	405.26	409.64	399.19	404.70	1.30	ppb
Strontium	86-1	198.12	230.48	236.49	221.70	9.31	ppb
Strontium	88-1	201.64	236.41	240.73	226.26	9.47	ppb
Sulfur	34-1	-1278.41	-834.44	-856.26	-989.70		ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	0.14	0.18	0.18	0.17	12.65	ppb
Thallium	205-1	0.15	0.17	0.16	0.16	3.52	ppb
Tin	118-1	0.22	0.29	0.28	0.26	13.60	ppb
Titanium	47-1	272.94	319.66	318.29	303.63	8.76	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.15	1.29	1.31	1.25	6.99	ppb
Vanadium	51-2	22.59	22.65	22.58	22.61	0.18	ppb
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	40.01	39.87	40.03	39.97	0.22	ppb
Zirconium	90-1	0.47	0.52	0.54	0.51	7.73	ppb
Zirconium	91-1	0.44	0.55	0.51	0.50	11.52	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6033.75	5819.22	5773.26	5875.41	2.37	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	7.94	ppb
Arsenic	75-2	7.72	7.60	7.60	7.64	0.89	ppb
Barium	135-1	35.61	35.81	36.16	35.86	0.78	ppb
Barium	137-1	35.40	35.84	36.14	35.79	1.04	ppb
Beryllium	9-1	0.30	0.35	0.39	0.35	12.47	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.23	0.19	0.40	0.27	39.20	ppb
Cadmium	106-1	-2.23	-3.22	-2.53	-2.66		ppb
Cadmium	111-1	0.05	-0.03	0.04	0.02	198.02	ppb
Calcium	43-1	2525.98	2544.02	2594.46	2554.82	1.39	ppb
Calcium	44-1	2547.97	2580.57	2583.63	2570.72	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13.47	13.36	13.27	13.37	0.75	ppb
Cobalt	59-2	5.25	5.27	5.31	5.28	0.61	ppb
Copper	63-2	5.34	5.24	5.20	5.26	1.33	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				104		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	6821.79	6804.08	6760.94	6795.61	0.46	ppb
Iron	57-2	6839.30	6852.58	6795.61	6829.16	0.44	ppb
Iron	54-2	6818.21	7044.57	6809.81	6890.86	1.93	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.87	14.19	14.12	14.06	1.19	ppb
Lead	207-1	12.82	13.05	13.33	13.06	1.95	ppb
Lead	208-1	13.23	13.53	13.55	13.44	1.37	ppb
Lithium	6-1				103		%
Magnesium	24-2	1645.33	1653.72	1635.32	1644.79	0.56	ppb
Manganese	55-2	116.31	116.63	115.06	116.00	0.72	ppb
Molybdenum	94-1	1.43	1.55	1.49	1.49	3.94	ppb
Molybdenum	95-1	0.34	0.32	0.35	0.34	3.74	ppb
Molybdenum	96-1	0.52	0.51	0.52	0.52	0.72	ppb
Molybdenum	97-1	0.33	0.33	0.32	0.33	1.14	ppb
Molybdenum	98-1	0.34	0.34	0.33	0.34	1.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.21	10.93	10.91	11.02	1.51	ppb
Phosphorus	31-2	333.33	322.09	310.35	321.92	3.57	ppb
Potassium	39-2	529.16	525.72	523.96	526.28	0.50	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.46	1.03	0.56	0.68	45.14	ppb
Selenium	77-2	1.70	2.19	2.15	2.01	13.48	ppb
Selenium	78-2	0.49	-0.06	1.37	0.60	120.49	ppb
Silicon	28-1	53.30	52.05	54.37	53.24	2.18	ppb
Silver	107-1	0.05	0.04	0.06	0.05	11.24	ppb
Silver	109-1	0.06	0.05	0.05	0.05	3.60	ppb
Sodium	23-2	117.57	118.15	116.50	117.41	0.71	ppb
Strontium	86-1	216.45	223.42	223.79	221.22	1.87	ppb
Strontium	88-1	218.39	223.56	225.67	222.54	1.68	ppb
Sulfur	34-1	-665.81	-593.29	-597.78	-618.96		ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	0.11	0.11	0.12	0.11	4.13	ppb
Thallium	205-1	0.11	0.11	0.12	0.11	6.42	ppb
Tin	118-1	0.16	0.15	0.17	0.16	8.45	ppb
Titanium	47-1	193.12	195.62	195.99	194.91	0.80	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.09	2.14	2.14	2.13	1.48	ppb
Vanadium	51-2	11.86	11.77	11.80	11.81	0.39	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	55.30	54.54	54.63	54.82	0.76	ppb
Zirconium	90-1	0.66	0.68	0.68	0.67	1.88	ppb
Zirconium	91-1	0.60	0.72	0.65	0.66	9.60	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8871.96	8938.87	8949.86	8920.23	0.47	ppb
Antimony	121-1	0.02	0.03	0.03	0.03	16.49	ppb
Arsenic	75-2	6.43	6.83	6.75	6.67	3.23	ppb
Barium	135-1	51.59	55.24	55.80	54.21	4.22	ppb
Barium	137-1	52.50	55.78	56.00	54.76	3.59	ppb
Beryllium	9-1	0.41	0.49	0.43	0.44	9.98	ppb
Bismuth	209-1				108		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.22	0.35	0.26	0.27	23.78	ppb
Cadmium	106-1	-2.16	-2.81	-2.05	-2.34		ppb
Cadmium	111-1	0.04	0.00	0.05	0.03	85.90	ppb
Calcium	43-1	1918.80	2078.74	2077.84	2025.13	4.55	ppb
Calcium	44-1	1899.20	2077.59	2058.46	2011.75	4.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.71	20.56	20.92	20.73	0.88	ppb
Cobalt	59-2	5.32	5.28	5.25	5.28	0.65	ppb
Copper	63-2	5.79	5.64	5.84	5.76	1.84	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				101		%
Indium	115-2				99		%
Iron	56-2	9369.88	9446.51	9468.55	9428.31	0.55	ppb
Iron	57-2	9425.02	9455.30	9484.35	9454.89	0.31	ppb
Iron	54-2	9472.23	9489.31	9428.54	9463.36	0.33	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	15.98	16.98	17.03	16.67	3.55	ppb
Lead	207-1	14.83	15.84	15.91	15.53	3.88	ppb
Lead	208-1	15.23	16.27	16.33	15.94	3.88	ppb
Lithium	6-1				106		%
Magnesium	24-2	2501.55	2510.95	2524.55	2512.35	0.46	ppb
Manganese	55-2	164.00	163.42	164.38	163.93	0.30	ppb
Molybdenum	94-1	1.73	1.92	1.91	1.86	5.80	ppb
Molybdenum	95-1	0.41	0.41	0.42	0.41	0.71	ppb
Molybdenum	96-1	0.63	0.68	0.65	0.66	3.65	ppb
Molybdenum	97-1	0.43	0.41	0.45	0.43	4.95	ppb
Molybdenum	98-1	0.40	0.41	0.44	0.42	5.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.99	12.77	12.83	12.87	0.89	ppb
Phosphorus	31-2	251.51	264.57	250.38	255.49	3.09	ppb
Potassium	39-2	661.38	661.85	671.16	664.80	0.83	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.79	0.84	0.53	0.72	23.25	ppb
Selenium	77-2	4.08	2.19	2.20	2.82	38.46	ppb
Selenium	78-2	0.06	1.36	-0.01	0.47	164.52	ppb
Silicon	28-1	61.33	66.51	72.59	66.81	8.44	ppb
Silver	107-1	0.04	0.05	0.04	0.04	10.34	ppb
Silver	109-1	0.05	0.05	0.05	0.05	3.76	ppb
Sodium	23-2	167.81	166.17	166.59	166.86	0.51	ppb
Strontium	86-1	291.43	311.27	314.51	305.74	4.09	ppb
Strontium	88-1	291.40	314.39	317.43	307.74	4.62	ppb
Sulfur	34-1	-1122.62	-892.17	-889.14	-967.97		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.14	0.16	0.15	0.15	7.32	ppb
Thallium	205-1	0.14	0.14	0.15	0.15	4.65	ppb
Tin	118-1	0.18	0.22	0.20	0.20	11.05	ppb
Titanium	47-1	264.31	287.47	284.92	278.90	4.55	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.24	2.40	2.35	2.33	3.54	ppb
Vanadium	51-2	16.03	16.35	16.19	16.19	0.98	ppb
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	41.23	41.88	42.09	41.73	1.08	ppb
Zirconium	90-1	0.77	0.82	0.87	0.82	5.81	ppb
Zirconium	91-1	0.86	0.84	0.82	0.84	1.97	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7547.69	7647.12	7585.96	7593.59	0.66	ppb
Antimony	121-1	0.04	0.05	0.05	0.04	12.17	ppb
Arsenic	75-2	8.16	8.07	8.51	8.25	2.85	ppb
Barium	135-1	43.61	46.72	48.28	46.20	5.15	ppb
Barium	137-1	43.29	47.85	48.61	46.58	6.18	ppb
Beryllium	9-1	0.40	0.40	0.41	0.41	1.93	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.46	0.31	0.11	0.29	59.52	ppb
Cadmium	106-1	-2.34	-2.33	-1.39	-2.02		ppb
Cadmium	111-1	0.04	0.07	0.11	0.07	48.49	ppb
Calcium	43-1	1885.58	2058.35	2079.70	2007.88	5.30	ppb
Calcium	44-1	1880.60	2075.30	2062.65	2006.18	5.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.50	19.40	19.26	19.39	0.62	ppb
Cobalt	59-2	5.89	6.01	5.92	5.94	1.10	ppb
Copper	63-2	9.83	9.96	9.64	9.81	1.65	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				106		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	56-2	10543.50	10638.06	10508.66	10563.41	0.63	ppb
Iron	57-2	10671.44	10667.19	10516.78	10618.47	0.83	ppb
Iron	54-2	10738.83	10636.94	10697.27	10691.02	0.48	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	13.62	15.34	15.25	14.74	6.57	ppb
Lead	207-1	12.80	14.39	14.14	13.78	6.20	ppb
Lead	208-1	13.12	14.66	14.48	14.09	5.98	ppb
Lithium	6-1				107		%
Magnesium	24-2	2599.06	2605.81	2575.11	2593.33	0.62	ppb
Manganese	55-2	233.02	232.16	229.70	231.63	0.74	ppb
Molybdenum	94-1	2.60	3.01	2.81	2.81	7.22	ppb
Molybdenum	95-1	0.44	0.50	0.54	0.49	10.63	ppb
Molybdenum	96-1	0.76	0.86	0.87	0.83	7.49	ppb
Molybdenum	97-1	0.45	0.51	0.52	0.49	7.03	ppb
Molybdenum	98-1	0.49	0.53	0.50	0.50	4.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.72	14.53	14.81	14.69	1.00	ppb
Phosphorus	31-2	397.41	390.74	384.76	390.97	1.62	ppb
Potassium	39-2	1216.08	1210.81	1200.33	1209.08	0.66	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.48	0.22	0.79	0.50	57.73	ppb
Selenium	77-2	4.03	3.13	4.77	3.98	20.72	ppb
Selenium	78-2	0.44	0.31	0.46	0.40	20.60	ppb
Silicon	28-1	64.96	73.14	89.83	75.97	16.68	ppb
Silver	107-1	0.05	0.06	0.04	0.05	13.09	ppb
Silver	109-1	0.04	0.05	0.05	0.05	11.65	ppb
Sodium	23-2	179.40	176.31	172.83	176.18	1.86	ppb
Strontium	86-1	223.50	246.62	247.65	239.26	5.71	ppb
Strontium	88-1	225.83	249.54	251.07	242.15	5.85	ppb
Sulfur	34-1	-1209.81	-959.44	-881.97	-1017.07		ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.14	0.16	0.17	0.16	9.10	ppb
Thallium	205-1	0.15	0.16	0.16	0.16	5.85	ppb
Tin	118-1	0.17	0.22	0.22	0.20	15.60	ppb
Titanium	47-1	321.13	356.13	356.65	344.64	5.91	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.11	2.39	2.33	2.28	6.42	ppb
Vanadium	51-2	18.73	18.49	18.21	18.48	1.42	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	47.07	46.49	45.79	46.45	1.38	ppb
Zirconium	90-1	1.24	1.38	1.39	1.34	6.26	ppb
Zirconium	91-1	1.29	1.33	1.38	1.33	3.56	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15393.97	15414.82	15337.28	15382.03	0.26	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	13.56	ppb
Arsenic	75-2	3.45	3.80	3.49	3.58	5.35	ppb
Barium	135-1	51.89	55.83	56.91	54.88	4.81	ppb
Barium	137-1	52.91	56.30	56.16	55.12	3.48	ppb
Beryllium	9-1	0.54	0.52	0.62	0.56	9.23	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.14	0.07	0.20	0.14	48.80	ppb
Cadmium	106-1	-2.47	-2.28	-2.25	-2.33		ppb
Cadmium	111-1	-0.06	-0.06	-0.06	-0.06		ppb
Calcium	43-1	1269.36	1364.40	1356.51	1330.09	3.97	ppb
Calcium	44-1	1260.34	1342.10	1353.85	1318.76	3.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41.00	40.12	40.53	40.55	1.08	ppb
Cobalt	59-2	5.79	5.57	5.67	5.67	1.93	ppb
Copper	63-2	3.26	3.00	3.07	3.11	4.36	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				105		%
Holmium	165-2				104		%
Indium	115-1				102		%
Indium	115-2				99		%
Iron	56-2	17095.89	16997.96	16911.54	17001.80	0.54	ppb
Iron	57-2	16727.87	16541.33	16669.25	16646.15	0.57	ppb
Iron	54-2	17158.22	17023.09	16971.20	17050.84	0.57	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	24.77	26.01	26.65	25.81	3.71	ppb
Lead	207-1	22.69	23.78	24.73	23.74	4.30	ppb
Lead	208-1	23.48	24.60	25.43	24.50	4.00	ppb
Lithium	6-1				107		%
Magnesium	24-2	4516.46	4547.62	4534.26	4532.78	0.34	ppb
Manganese	55-2	161.65	160.16	160.44	160.75	0.49	ppb
Molybdenum	94-1	1.69	1.81	1.75	1.75	3.57	ppb
Molybdenum	95-1	0.32	0.36	0.39	0.36	10.23	ppb
Molybdenum	96-1	0.56	0.66	0.63	0.62	7.72	ppb
Molybdenum	97-1	0.34	0.37	0.38	0.36	5.38	ppb
Molybdenum	98-1	0.32	0.35	0.38	0.35	8.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.69	16.69	16.81	16.73	0.41	ppb
Phosphorus	31-2	152.61	166.82	159.95	159.80	4.45	ppb
Potassium	39-2	550.65	540.12	545.42	545.40	0.97	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.29	0.66	0.92	0.62	51.12	ppb
Selenium	77-2	2.62	2.52	2.19	2.44	9.18	ppb
Selenium	78-2	-0.21	-0.13	-0.39	-0.24		ppb
Silicon	28-1	58.23	60.95	61.62	60.27	2.98	ppb
Silver	107-1	0.05	0.05	0.05	0.05	5.73	ppb
Silver	109-1	0.05	0.05	0.05	0.05	9.09	ppb
Sodium	23-2	171.69	169.33	170.37	170.46	0.69	ppb
Strontium	86-1	186.40	202.00	201.98	196.80	4.58	ppb
Strontium	88-1	190.80	206.95	206.70	201.48	4.59	ppb
Sulfur	34-1	-1638.83	-1477.84	-1461.59	-1526.09		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.21	0.22	0.22	0.22	3.83	ppb
Thallium	205-1	0.22	0.23	0.23	0.23	2.16	ppb
Tin	118-1	0.22	0.25	0.23	0.24	6.40	ppb
Titanium	47-1	524.31	555.24	561.71	547.09	3.65	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.64	1.76	1.76	1.72	3.90	ppb
Vanadium	51-2	28.82	28.48	28.98	28.76	0.89	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	43.09	42.73	43.32	43.05	0.69	ppb
Zirconium	90-1	0.77	0.83	0.83	0.81	4.02	ppb
Zirconium	91-1	0.74	0.85	0.81	0.80	6.72	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14524.00	14485.14	14194.62	14401.26	1.25	ppb
Antimony	121-1	0.27	0.26	0.27	0.27	2.38	ppb
Arsenic	75-2	74.34	74.09	74.11	74.18	0.18	ppb
Barium	135-1	100.80	100.46	98.88	100.05	1.03	ppb
Barium	137-1	101.34	100.00	99.35	100.23	1.01	ppb
Beryllium	9-1	1.95	1.96	2.01	1.97	1.52	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	35.82	36.56	36.86	36.41	1.48	ppb
Cadmium	106-1	24.59	25.20	23.63	24.47	3.24	ppb
Cadmium	111-1	0.77	0.86	0.62	0.75	16.33	ppb
Calcium	43-1	12976.00	13080.94	13111.00	13055.98	0.54	ppb
Calcium	44-1	12544.97	12637.63	12527.52	12570.04	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	525.10	521.23	525.10	523.81	0.43	ppb
Cobalt	59-2	7.86	8.01	7.79	7.89	1.42	ppb
Copper	63-2	915.40	927.98	883.01	908.80	2.55	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				106		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	29638.36	29381.75	29320.59	29446.90	0.57	ppb
Iron	57-2	29267.93	28903.55	28601.07	28924.18	1.15	ppb
Iron	54-2	30005.44	29637.72	29644.03	29762.39	0.71	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	273.31	270.72	273.82	272.62	0.61	ppb
Lead	207-1	251.12	246.02	252.07	249.74	1.30	ppb
Lead	208-1	259.79	256.04	259.44	258.42	0.80	ppb
Lithium	6-1				108		%
Magnesium	24-2	2360.57	2370.69	2301.65	2344.30	1.59	ppb
Manganese	55-2	1248.76	1247.91	1238.95	1245.21	0.44	ppb
Molybdenum	94-1	2.01	2.02	1.98	2.00	0.96	ppb
Molybdenum	95-1	1.69	1.68	1.65	1.67	1.36	ppb
Molybdenum	96-1	1.89	1.90	1.92	1.91	0.88	ppb
Molybdenum	97-1	1.61	1.71	1.67	1.66	3.12	ppb
Molybdenum	98-1	1.64	1.65	1.61	1.63	1.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	88.48	88.73	87.34	88.18	0.84	ppb
Phosphorus	31-2	950.22	895.85	936.44	927.50	3.05	ppb
Potassium	39-2	786.18	786.36	789.16	787.23	0.21	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	0.89	0.95	1.10	0.98	10.88	ppb
Selenium	77-2	2.15	3.43	2.48	2.69	24.79	ppb
Selenium	78-2	0.07	-0.15	-0.88	-0.32		ppb
Silicon	28-1	119.63	118.30	118.16	118.70	0.69	ppb
Silver	107-1	1.24	1.21	1.21	1.22	1.10	ppb
Silver	109-1	1.22	1.24	1.21	1.22	1.22	ppb
Sodium	23-2	2037.40	2020.10	1934.06	1997.19	2.77	ppb
Strontium	86-1	2301.43	2298.38	2303.37	2301.06	0.11	ppb
Strontium	88-1	2373.35	2364.18	2382.67	2373.40	0.39	ppb
Sulfur	34-1	665.49	729.53	747.47	714.16	6.03	ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.12	0.13	0.12	0.12	3.23	ppb
Thallium	205-1	0.13	0.12	0.13	0.13	3.96	ppb
Tin	118-1	521.07	517.00	520.36	519.48	0.42	ppb
Titanium	47-1	230.21	232.36	231.61	231.39	0.47	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.99	1.01	1.00	1.00	0.99	ppb
Vanadium	51-2	15.89	15.84	15.62	15.78	0.92	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	110.14	112.91	110.97	111.34	1.28	ppb
Zirconium	90-1	0.31	0.32	0.32	0.32	2.42	ppb
Zirconium	91-1	0.32	0.33	0.31	0.32	3.21	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15367.06	15618.52	15307.98	15431.19	1.07	ppb
Antimony	121-1	0.29	0.29	0.31	0.30	3.96	ppb
Arsenic	75-2	80.27	81.86	80.10	80.74	1.20	ppb
Barium	135-1	105.80	107.93	109.65	107.79	1.79	ppb
Barium	137-1	106.15	109.62	110.25	108.67	2.03	ppb
Beryllium	9-1	2.11	2.11	2.11	2.11	0.18	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	39.50	40.91	41.58	40.66	2.60	ppb
Cadmium	106-1	25.97	28.61	29.06	27.88	5.99	ppb
Cadmium	111-1	0.86	0.98	1.03	0.96	9.24	ppb
Calcium	43-1	13523.87	13937.90	14045.49	13835.75	1.99	ppb
Calcium	44-1	13124.65	13513.14	13495.32	13377.70	1.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	586.66	593.05	591.98	590.56	0.58	ppb
Cobalt	59-2	8.57	8.62	8.53	8.58	0.51	ppb
Copper	63-2	986.39	1010.57	989.52	995.49	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				107		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	32352.76	32862.23	32252.87	32489.29	1.01	ppb
Iron	57-2	32311.46	32411.91	31964.58	32229.32	0.73	ppb
Iron	54-2	32527.93	33217.47	32248.75	32664.72	1.53	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	299.23	304.26	308.70	304.06	1.56	ppb
Lead	207-1	275.80	281.76	283.27	280.28	1.41	ppb
Lead	208-1	284.39	286.59	293.92	288.30	1.73	ppb
Lithium	6-1				107		%
Magnesium	24-2	2554.35	2582.25	2555.77	2564.13	0.61	ppb
Manganese	55-2	1329.64	1326.88	1319.18	1325.24	0.41	ppb
Molybdenum	94-1	2.02	2.16	2.18	2.12	4.16	ppb
Molybdenum	95-1	1.73	1.80	1.82	1.78	2.75	ppb
Molybdenum	96-1	2.03	2.13	2.10	2.08	2.47	ppb
Molybdenum	97-1	1.72	1.86	1.87	1.82	4.65	ppb
Molybdenum	98-1	1.74	1.83	1.85	1.81	3.22	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	95.78	97.80	95.59	96.39	1.27	ppb
Phosphorus	31-2	982.19	1011.19	967.37	986.92	2.26	ppb
Potassium	39-2	887.87	885.58	881.60	885.02	0.36	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	0.40	0.80	0.99	0.73	41.52	ppb
Selenium	77-2	1.82	2.96	1.96	2.25	27.81	ppb
Selenium	78-2	-0.50	-1.05	-0.62	-0.72		ppb
Silicon	28-1	122.64	128.15	128.85	126.55	2.69	ppb
Silver	107-1	1.34	1.36	1.37	1.36	0.83	ppb
Silver	109-1	1.32	1.37	1.37	1.35	2.01	ppb
Sodium	23-2	2121.69	2105.56	2109.31	2112.18	0.40	ppb
Strontium	86-1	2379.33	2462.23	2479.56	2440.37	2.20	ppb
Strontium	88-1	2488.81	2593.86	2560.76	2547.81	2.11	ppb
Sulfur	34-1	981.83	1137.46	1086.58	1068.62	7.43	ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	0.14	0.13	0.13	0.13	2.49	ppb
Thallium	205-1	0.13	0.13	0.12	0.13	1.94	ppb
Tin	118-1	566.21	586.90	593.34	582.15	2.43	ppb
Titanium	47-1	253.78	261.86	260.86	258.83	1.70	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.11	1.12	1.12	1.12	0.77	ppb
Vanadium	51-2	17.45	17.99	17.49	17.64	1.68	ppb
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	119.50	121.80	118.61	119.97	1.37	ppb
Zirconium	90-1	0.35	0.36	0.35	0.35	0.64	ppb
Zirconium	91-1	0.35	0.37	0.36	0.36	2.19	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3214.22	3154.31	3154.75	3174.43	1.09	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	5.03	ppb
Arsenic	75-2	16.81	16.36	16.96	16.71	1.87	ppb
Barium	135-1	20.02	22.42	22.67	21.71	6.74	ppb
Barium	137-1	20.34	22.60	22.67	21.87	6.07	ppb
Beryllium	9-1	0.40	0.44	0.45	0.43	6.01	ppb
Bismuth	209-1				110		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.63	8.14	9.15	8.31	9.33	ppb
Cadmium	106-1	3.39	4.61	3.07	3.69	22.10	ppb
Cadmium	111-1	0.04	0.10	-0.05	0.03	240.22	ppb
Calcium	43-1	2579.21	2924.23	2917.61	2807.02	7.03	ppb
Calcium	44-1	2591.70	2858.75	2900.38	2783.61	6.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	116.75	115.31	114.58	115.55	0.95	ppb
Cobalt	59-2	1.74	1.78	1.74	1.75	1.39	ppb
Copper	63-2	198.14	195.67	194.48	196.09	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				106		%
Holmium	165-2				103		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	56-2	6573.99	6454.75	6430.74	6486.49	1.18	ppb
Iron	57-2	6607.13	6531.60	6513.52	6550.75	0.76	ppb
Iron	54-2	6612.44	6580.30	6643.97	6612.24	0.48	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	51.27	55.65	56.51	54.48	5.16	ppb
Lead	207-1	45.86	50.80	50.71	49.12	5.75	ppb
Lead	208-1	47.74	52.42	52.73	50.96	5.49	ppb
Lithium	6-1				106		%
Magnesium	24-2	532.62	525.86	530.36	529.62	0.65	ppb
Manganese	55-2	269.91	268.64	268.28	268.94	0.32	ppb
Molybdenum	94-1	0.41	0.45	0.49	0.45	9.27	ppb
Molybdenum	95-1	0.31	0.37	0.40	0.36	12.49	ppb
Molybdenum	96-1	0.38	0.45	0.42	0.42	8.43	ppb
Molybdenum	97-1	0.32	0.36	0.37	0.35	7.83	ppb
Molybdenum	98-1	0.32	0.38	0.37	0.36	8.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.94	18.88	19.15	18.99	0.75	ppb
Phosphorus	31-2	193.75	193.42	191.61	192.92	0.60	ppb
Potassium	39-2	173.91	170.88	170.84	171.88	1.02	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				94		%
Scandium	45-2				95		%
Selenium	82-1	-0.05	0.44	0.16	0.19	132.57	ppb
Selenium	77-2	0.90	0.75	0.75	0.80	10.93	ppb
Selenium	78-2	-0.57	-1.58	-1.09	-1.08		ppb
Silicon	28-1	21.51	26.12	25.59	24.41	10.33	ppb
Silver	107-1	0.25	0.28	0.27	0.27	5.78	ppb
Silver	109-1	0.23	0.26	0.28	0.26	9.14	ppb
Sodium	23-2	449.24	442.58	439.79	443.87	1.09	ppb
Strontium	86-1	461.24	513.37	510.71	495.11	5.93	ppb
Strontium	88-1	465.20	523.94	520.00	503.04	6.53	ppb
Sulfur	34-1	-1373.25	-993.32	-929.99	-1098.85		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.03	0.02	0.02	15.71	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	11.58	ppb
Tin	118-1	100.31	112.21	112.03	108.18	6.30	ppb
Titanium	47-1	46.08	50.36	51.22	49.22	5.59	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.19	0.22	0.22	0.21	7.31	ppb
Vanadium	51-2	3.64	3.55	3.59	3.59	1.28	ppb
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	25.82	25.29	25.24	25.45	1.28	ppb
Zirconium	90-1	0.07	0.07	0.08	0.07	4.62	ppb
Zirconium	91-1	0.07	0.06	0.07	0.07	7.21	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15467.97	15331.84	14935.89	15245.23	1.81	ppb
Antimony	121-1	6.64	6.80	6.82	6.75	1.47	ppb
Arsenic	75-2	88.62	88.76	89.04	88.81	0.24	ppb
Barium	135-1	290.78	292.35	292.78	291.97	0.36	ppb
Barium	137-1	293.68	291.98	293.94	293.20	0.36	ppb
Beryllium	9-1	6.67	6.79	6.59	6.68	1.48	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	46.02	47.28	47.66	46.99	1.83	ppb
Cadmium	106-1	34.12	32.89	33.26	33.42	1.90	ppb
Cadmium	111-1	5.79	5.42	5.60	5.60	3.25	ppb
Calcium	43-1	13198.33	13569.71	13523.97	13430.67	1.51	ppb
Calcium	44-1	12721.03	12912.51	13037.65	12890.40	1.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	531.82	530.02	530.54	530.79	0.17	ppb
Cobalt	59-2	56.08	56.52	55.28	55.96	1.13	ppb
Copper	63-2	1044.41	1059.92	1009.05	1037.79	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				106		%
Holmium	165-2				105		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	32253.00	32804.92	32192.58	32416.83	1.04	ppb
Iron	57-2	31878.26	32370.45	31556.85	31935.19	1.28	ppb
Iron	54-2	32437.36	33158.98	32781.39	32792.58	1.10	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	302.33	306.37	313.89	307.53	1.91	ppb
Lead	207-1	281.03	280.29	285.50	282.27	1.00	ppb
Lead	208-1	290.54	291.89	296.97	293.14	1.16	ppb
Lithium	6-1				107		%
Magnesium	24-2	2636.78	2629.90	2530.60	2599.09	2.29	ppb
Manganese	55-2	1236.23	1264.89	1241.80	1247.64	1.22	ppb
Molybdenum	94-1	2.16	2.14	2.15	2.15	0.54	ppb
Molybdenum	95-1	1.85	1.89	1.83	1.86	1.79	ppb
Molybdenum	96-1	2.11	2.19	2.16	2.15	2.03	ppb
Molybdenum	97-1	1.80	1.87	1.84	1.83	1.83	ppb
Molybdenum	98-1	1.82	1.83	1.82	1.82	0.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	142.94	144.26	139.93	142.38	1.56	ppb
Phosphorus	31-2	1044.73	962.98	979.38	995.70	4.34	ppb
Potassium	39-2	874.80	866.22	864.16	868.39	0.65	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				93		%
Scandium	45-2				97		%
Selenium	82-1	2.20	1.89	2.82	2.30	20.54	ppb
Selenium	77-2	3.37	2.92	4.62	3.64	24.12	ppb
Selenium	78-2	1.43	0.32	2.19	1.31	71.73	ppb
Silicon	28-1	113.42	116.07	117.06	115.52	1.63	ppb
Silver	107-1	6.08	6.01	6.12	6.07	0.88	ppb
Silver	109-1	5.85	5.99	6.13	5.99	2.38	ppb
Sodium	23-2	2049.45	2068.57	1970.19	2029.40	2.57	ppb
Strontium	86-1	2350.19	2398.10	2347.43	2365.24	1.20	ppb
Strontium	88-1	2425.77	2466.46	2434.45	2442.23	0.88	ppb
Sulfur	34-1	964.68	1085.43	1071.15	1040.42	6.34	ppb
Terbium	159-1				104		%
Terbium	159-2				105		%
Thallium	203-1	4.00	4.01	4.17	4.06	2.43	ppb
Thallium	205-1	3.97	3.96	4.08	4.00	1.60	ppb
Tin	118-1	583.35	577.37	582.20	580.97	0.55	ppb
Titanium	47-1	272.23	279.32	279.00	276.85	1.45	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.11	1.09	1.13	1.11	1.68	ppb
Vanadium	51-2	64.63	65.26	64.70	64.86	0.53	ppb
Yttrium	89-1				101		%
Yttrium	89-2				103		%
Zinc	66-2	164.43	164.76	160.35	163.18	1.51	ppb
Zirconium	90-1	0.36	0.36	0.36	0.36	0.44	ppb
Zirconium	91-1	0.38	0.41	0.36	0.38	6.14	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5456.50	5428.41	5418.70	5434.54	0.36	ppb
Antimony	121-1	0.34	0.33	0.37	0.35	5.41	ppb
Arsenic	75-2	17.45	17.54	18.28	17.76	2.55	ppb
Barium	135-1	23.62	23.17	24.17	23.65	2.10	ppb
Barium	137-1	23.67	23.29	24.13	23.69	1.77	ppb
Beryllium	9-1	0.34	0.25	0.27	0.28	17.15	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	102.86	99.39	105.74	102.66	3.09	ppb
Cadmium	106-1	70.09	68.31	72.02	70.14	2.64	ppb
Cadmium	111-1	-0.18	-0.14	-0.19	-0.17		ppb
Calcium	43-1	570.25	608.01	605.06	594.44	3.53	ppb
Calcium	44-1	595.80	595.16	602.04	597.67	0.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	801.29	803.93	804.45	803.22	0.21	ppb
Cobalt	59-2	3.07	3.07	3.08	3.07	0.29	ppb
Copper	63-2	599.27	599.15	610.27	602.90	1.06	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				106		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	56-2	11873.65	11840.60	11914.00	11876.08	0.31	ppb
Iron	57-2	11768.94	11729.98	11768.34	11755.75	0.19	ppb
Iron	54-2	12413.30	12597.76	12492.92	12501.33	0.74	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	178.45	179.63	182.81	180.29	1.25	ppb
Lead	207-1	160.12	161.42	164.27	161.94	1.31	ppb
Lead	208-1	174.62	175.85	179.66	176.71	1.49	ppb
Lithium	6-1				104		%
Magnesium	24-2	1493.19	1502.61	1497.97	1497.92	0.31	ppb
Manganese	55-2	110.84	110.43	110.67	110.65	0.19	ppb
Molybdenum	94-1	1.12	1.06	1.06	1.08	3.16	ppb
Molybdenum	95-1	0.83	0.87	0.87	0.86	2.76	ppb
Molybdenum	96-1	0.95	1.02	1.05	1.00	5.05	ppb
Molybdenum	97-1	0.89	0.88	0.85	0.87	2.60	ppb
Molybdenum	98-1	0.88	0.88	0.91	0.89	2.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.21	16.24	16.49	16.31	0.93	ppb
Phosphorus	31-2	481.38	492.06	475.15	482.86	1.77	ppb
Potassium	39-2	655.24	665.45	658.28	659.66	0.79	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	-0.10	0.59	0.04	0.18	205.42	ppb
Selenium	77-2	1.21	1.52	0.90	1.21	25.44	ppb
Selenium	78-2	-1.29	-0.15	-0.03	-0.49		ppb
Silicon	28-1	53.55	54.14	55.59	54.42	1.93	ppb
Silver	107-1	2.31	2.33	2.40	2.35	2.09	ppb
Silver	109-1	2.33	2.28	2.41	2.34	2.80	ppb
Sodium	23-2	65.46	65.07	64.21	64.91	0.98	ppb
Strontium	86-1	58.18	60.61	60.38	59.73	2.25	ppb
Strontium	88-1	60.08	61.41	61.54	61.01	1.33	ppb
Sulfur	34-1	-1406.51	-1502.53	-1399.42	-1436.15		ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.07	0.07	0.06	0.07	9.15	ppb
Thallium	205-1	0.06	0.06	0.07	0.07	6.32	ppb
Tin	118-1	1151.01	1136.65	1155.96	1147.87	0.87	ppb
Titanium	47-1	313.91	314.18	321.98	316.69	1.45	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.80	0.81	0.81	0.80	0.44	ppb
Vanadium	51-2	13.45	13.70	13.31	13.49	1.44	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	26.65	27.86	26.86	27.12	2.38	ppb
Zirconium	90-1	0.17	0.20	0.19	0.19	7.09	ppb
Zirconium	91-1	0.18	0.20	0.18	0.19	5.78	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	134.82	135.60	130.11	133.51	2.22	ppb
Antimony	121-1	0.07	0.07	0.06	0.07	3.59	ppb
Arsenic	75-2	2.63	2.67	2.91	2.74	5.61	ppb
Barium	135-1	1.47	1.46	1.55	1.50	3.47	ppb
Barium	137-1	1.43	1.47	1.51	1.47	2.63	ppb
Beryllium	9-1	0.00	-0.01	0.01	0.00	6642.16	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	47.46	48.51	49.67	48.55	2.28	ppb
Cadmium	106-1	32.94	34.99	33.71	33.88	3.07	ppb
Cadmium	111-1	-0.07	0.04	-0.12	-0.05		ppb
Calcium	43-1	90.96	95.52	88.23	91.57	4.02	ppb
Calcium	44-1	93.56	97.56	92.88	94.67	2.67	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	351.00	342.51	348.36	347.29	1.25	ppb
Cobalt	59-2	0.09	0.10	0.09	0.09	7.56	ppb
Copper	63-2	16.03	16.10	16.07	16.07	0.23	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				104		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	56-2	845.43	851.90	849.72	849.02	0.39	ppb
Iron	57-2	842.20	844.76	840.78	842.58	0.24	ppb
Iron	54-2	1078.17	1098.36	1095.59	1090.71	1.00	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	22.62	22.57	22.85	22.68	0.66	ppb
Lead	207-1	20.16	20.16	20.68	20.33	1.46	ppb
Lead	208-1	21.00	20.97	21.41	21.13	1.18	ppb
Lithium	6-1				101		%
Magnesium	24-2	33.11	33.67	34.75	33.84	2.46	ppb
Manganese	55-2	3.65	3.52	3.54	3.57	1.94	ppb
Molybdenum	94-1	0.23	0.21	0.22	0.22	4.12	ppb
Molybdenum	95-1	0.19	0.21	0.22	0.21	6.30	ppb
Molybdenum	96-1	0.24	0.21	0.20	0.22	9.64	ppb
Molybdenum	97-1	0.20	0.26	0.20	0.22	13.64	ppb
Molybdenum	98-1	0.20	0.21	0.20	0.20	3.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	-0.02	0.19	0.08	143.39	ppb
Phosphorus	31-2	46.22	46.55	39.75	44.17	8.68	ppb
Potassium	39-2	23.45	24.56	25.92	24.64	5.02	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				92		%
Scandium	45-2				95		%
Selenium	82-1	-0.05	-0.08	-0.03	-0.05		ppb
Selenium	77-2	0.26	-0.05	0.11	0.11	150.29	ppb
Selenium	78-2	-0.61	-0.45	-0.58	-0.55		ppb
Silicon	28-1	-0.58	-0.27	-0.71	-0.52		ppb
Silver	107-1	0.69	0.70	0.69	0.69	1.09	ppb
Silver	109-1	0.67	0.68	0.67	0.67	1.06	ppb
Sodium	23-2	14.34	14.93	13.22	14.16	6.14	ppb
Strontium	86-1	8.06	8.52	9.19	8.59	6.65	ppb
Strontium	88-1	8.73	8.76	8.69	8.73	0.44	ppb
Sulfur	34-1	-1499.09	-1545.63	-1570.68	-1538.47		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.01	0.00	0.00	0.00	26.59	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	14.39	ppb
Tin	118-1	555.65	547.94	547.21	550.27	0.85	ppb
Titanium	47-1	18.03	17.67	17.61	17.77	1.29	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.02	0.02	0.02	14.43	ppb
Vanadium	51-2	1.11	1.08	1.07	1.09	1.96	ppb
Yttrium	89-1				98		%
Yttrium	89-2				100		%
Zinc	66-2	1.34	1.36	1.47	1.39	4.94	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	6.25	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	12.46	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2721.27	2717.03	2738.55	2725.62	0.42	ppb
Antimony	121-1	0.05	0.03	0.03	0.04	23.92	ppb
Arsenic	75-2	8.12	8.24	8.47	8.28	2.15	ppb
Barium	135-1	19.00	18.76	18.14	18.63	2.36	ppb
Barium	137-1	19.09	18.58	18.47	18.71	1.77	ppb
Beryllium	9-1	0.16	0.15	0.14	0.15	6.50	ppb
Bismuth	209-1				105		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	11.15	10.67	11.26	11.03	2.86	ppb
Cadmium	106-1	6.87	4.75	4.77	5.46	22.26	ppb
Cadmium	111-1	-0.01	-0.14	-0.17	-0.11		ppb
Calcium	43-1	512.85	495.36	497.06	501.76	1.92	ppb
Calcium	44-1	524.61	505.41	500.51	510.18	2.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	648.68	643.50	658.72	650.30	1.19	ppb
Cobalt	59-2	1.51	1.57	1.54	1.54	1.95	ppb
Copper	63-2	454.89	455.29	468.81	459.67	1.72	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				103		%
Indium	115-1				98		%
Indium	115-2				99		%
Iron	56-2	3443.08	3337.20	3456.37	3412.22	1.91	ppb
Iron	57-2	3429.28	3385.50	3466.36	3427.05	1.18	ppb
Iron	54-2	3913.88	3891.06	3961.27	3922.07	0.91	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	29.69	28.77	28.81	29.09	1.78	ppb
Lead	207-1	26.65	25.91	25.73	26.10	1.87	ppb
Lead	208-1	27.70	26.98	26.97	27.22	1.55	ppb
Lithium	6-1				101		%
Magnesium	24-2	671.79	667.69	675.53	671.67	0.58	ppb
Manganese	55-2	52.48	51.93	52.79	52.40	0.83	ppb
Molybdenum	94-1	0.43	0.46	0.47	0.46	5.69	ppb
Molybdenum	95-1	0.30	0.26	0.32	0.29	9.69	ppb
Molybdenum	96-1	0.38	0.34	0.33	0.35	7.04	ppb
Molybdenum	97-1	0.32	0.30	0.28	0.30	6.36	ppb
Molybdenum	98-1	0.30	0.29	0.28	0.29	2.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	13.24	13.48	13.99	13.57	2.83	ppb
Phosphorus	31-2	140.76	138.99	142.82	140.86	1.36	ppb
Potassium	39-2	265.31	261.18	269.61	265.37	1.59	ppb
Rhodium	103-1				97		%
Rhodium	103-2				101		%
Scandium	45-1				91		%
Scandium	45-2				95		%
Selenium	82-1	0.12	0.41	0.47	0.33	55.73	ppb
Selenium	77-2	1.06	0.42	1.07	0.85	43.60	ppb
Selenium	78-2	-0.71	-0.01	-0.60	-0.44		ppb
Silicon	28-1	29.94	27.53	28.38	28.62	4.26	ppb
Silver	107-1	0.62	0.62	0.60	0.61	1.40	ppb
Silver	109-1	0.62	0.59	0.60	0.60	2.32	ppb
Sodium	23-2	79.13	77.66	79.58	78.79	1.27	ppb
Strontium	86-1	98.32	95.41	93.08	95.61	2.75	ppb
Strontium	88-1	99.13	96.85	96.71	97.56	1.39	ppb
Sulfur	34-1	-901.34	-1145.84	-1236.28	-1094.49		ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	0.04	0.03	0.03	0.04	6.65	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	6.52	ppb
Tin	118-1	164.54	161.36	160.00	161.97	1.44	ppb
Titanium	47-1	83.72	80.26	80.57	81.52	2.35	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.80	0.78	0.77	0.78	1.85	ppb
Vanadium	51-2	5.40	5.29	5.42	5.37	1.26	ppb
Yttrium	89-1				97		%
Yttrium	89-2				101		%
Zinc	66-2	28.88	29.58	29.41	29.29	1.25	ppb
Zirconium	90-1	0.10	0.10	0.10	0.10	2.67	ppb
Zirconium	91-1	0.10	0.09	0.09	0.10	8.30	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3905.35	3885.08	3898.87	3896.44	0.27	ppb
Antimony	121-1	0.19	0.20	0.19	0.19	4.03	ppb
Arsenic	75-2	61.76	60.62	61.80	61.39	1.09	ppb
Barium	135-1	55.53	55.30	55.82	55.55	0.46	ppb
Barium	137-1	55.51	55.74	55.97	55.74	0.41	ppb
Beryllium	9-1	0.61	0.59	0.59	0.60	1.57	ppb
Bismuth	209-1				106		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	6.96	7.11	6.64	6.90	3.45	ppb
Cadmium	106-1	5.67	2.60	2.60	3.62	48.84	ppb
Cadmium	111-1	0.59	0.38	0.38	0.45	27.34	ppb
Calcium	43-1	2753.86	2776.34	2796.89	2775.70	0.78	ppb
Calcium	44-1	2763.35	2788.67	2801.91	2784.64	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	577.10	574.09	572.23	574.47	0.43	ppb
Cobalt	59-2	7.14	7.25	7.19	7.19	0.77	ppb
Copper	63-2	309.79	307.50	310.24	309.18	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				103		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	56-2	34568.14	34717.49	34634.61	34640.08	0.22	ppb
Iron	57-2	34179.70	33806.36	34025.36	34003.81	0.55	ppb
Iron	54-2	35197.86	35182.86	35082.07	35154.26	0.18	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	44.11	45.14	44.93	44.73	1.22	ppb
Lead	207-1	39.62	40.61	40.92	40.38	1.68	ppb
Lead	208-1	41.42	42.42	42.32	42.05	1.30	ppb
Lithium	6-1				102		%
Magnesium	24-2	1012.05	1006.83	1016.01	1011.63	0.46	ppb
Manganese	55-2	442.00	429.65	426.17	432.61	1.92	ppb
Molybdenum	94-1	1.16	1.14	1.14	1.15	0.85	ppb
Molybdenum	95-1	0.92	0.89	0.83	0.88	5.22	ppb
Molybdenum	96-1	1.22	1.20	1.19	1.20	0.93	ppb
Molybdenum	97-1	0.92	0.88	0.86	0.89	3.38	ppb
Molybdenum	98-1	0.89	0.91	0.86	0.89	2.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.84	26.23	26.05	26.37	1.58	ppb
Phosphorus	31-2	601.99	594.03	591.95	595.99	0.89	ppb
Potassium	39-2	484.87	475.83	484.25	481.65	1.05	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	0.34	0.70	-0.09	0.31	125.78	ppb
Selenium	77-2	2.63	2.17	1.06	1.95	41.25	ppb
Selenium	78-2	0.08	0.34	0.27	0.23	57.54	ppb
Silicon	28-1	91.73	92.21	92.92	92.29	0.65	ppb
Silver	107-1	0.66	0.66	0.69	0.67	3.00	ppb
Silver	109-1	0.69	0.64	0.70	0.67	4.52	ppb
Sodium	23-2	398.35	393.43	399.25	397.01	0.79	ppb
Strontium	86-1	446.73	441.28	441.60	443.20	0.69	ppb
Strontium	88-1	447.11	449.69	447.53	448.11	0.31	ppb
Sulfur	34-1	-72.26	-103.65	-187.89	-121.26		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.08	0.09	0.08	0.09	5.23	ppb
Thallium	205-1	0.09	0.09	0.09	0.09	0.73	ppb
Tin	118-1	94.17	94.33	95.47	94.66	0.75	ppb
Titanium	47-1	142.68	143.39	143.66	143.24	0.35	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.12	1.15	1.15	1.14	1.37	ppb
Vanadium	51-2	14.72	14.78	14.74	14.75	0.21	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	98.09	98.69	100.12	98.97	1.05	ppb
Zirconium	90-1	0.19	0.21	0.21	0.20	4.35	ppb
Zirconium	91-1	0.22	0.21	0.22	0.21	2.92	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1638.39	1638.38	1631.55	1636.11	0.24	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	6.45	ppb
Arsenic	75-2	2.29	2.36	2.41	2.36	2.59	ppb
Barium	135-1	10.45	11.14	11.09	10.89	3.54	ppb
Barium	137-1	10.55	11.04	11.21	10.93	3.12	ppb
Beryllium	9-1	0.13	0.13	0.11	0.12	7.83	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.17	7.85	7.39	7.80	5.01	ppb
Cadmium	106-1	4.33	4.34	4.25	4.31	1.09	ppb
Cadmium	111-1	-0.04	-0.04	-0.02	-0.04		ppb
Calcium	43-1	401.51	409.18	417.45	409.38	1.95	ppb
Calcium	44-1	403.59	421.42	424.58	416.53	2.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	309.74	312.40	309.97	310.70	0.47	ppb
Cobalt	59-2	1.02	1.04	1.02	1.03	1.20	ppb
Copper	63-2	525.47	537.62	533.98	532.36	1.17	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				105		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	56-2	2068.76	2063.95	2068.42	2067.04	0.13	ppb
Iron	57-2	2066.21	2067.81	2085.32	2073.11	0.51	ppb
Iron	54-2	2311.92	2332.70	2324.17	2322.93	0.45	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	36.48	37.40	37.36	37.08	1.40	ppb
Lead	207-1	32.06	32.76	32.90	32.57	1.38	ppb
Lead	208-1	33.57	34.42	34.75	34.25	1.78	ppb
Lithium	6-1				102		%
Magnesium	24-2	377.21	375.49	375.38	376.03	0.27	ppb
Manganese	55-2	23.78	23.83	24.06	23.89	0.64	ppb
Molybdenum	94-1	0.41	0.37	0.45	0.41	9.95	ppb
Molybdenum	95-1	0.32	0.35	0.32	0.33	5.53	ppb
Molybdenum	96-1	0.33	0.36	0.35	0.35	4.51	ppb
Molybdenum	97-1	0.26	0.34	0.29	0.30	13.99	ppb
Molybdenum	98-1	0.29	0.32	0.31	0.30	4.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	36.68	36.87	36.86	36.80	0.29	ppb
Phosphorus	31-2	94.58	80.16	102.64	92.46	12.32	ppb
Potassium	39-2	162.90	162.76	161.01	162.22	0.65	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				94		%
Scandium	45-2				96		%
Selenium	82-1	0.21	0.30	0.22	0.24	21.08	ppb
Selenium	77-2	1.21	1.53	0.74	1.16	34.21	ppb
Selenium	78-2	0.12	-1.49	-0.45	-0.61		ppb
Silicon	28-1	21.32	22.96	23.19	22.49	4.54	ppb
Silver	107-1	0.64	0.66	0.65	0.65	1.70	ppb
Silver	109-1	0.61	0.64	0.64	0.63	2.39	ppb
Sodium	23-2	76.07	78.37	77.50	77.31	1.50	ppb
Strontium	86-1	71.60	72.52	75.17	73.10	2.54	ppb
Strontium	88-1	72.27	75.90	75.58	74.58	2.70	ppb
Sulfur	34-1	-867.00	-740.02	-788.12	-798.38		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.02	0.02	4.51	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	6.14	ppb
Tin	118-1	87.55	91.50	92.35	90.46	2.83	ppb
Titanium	47-1	58.49	60.74	61.54	60.26	2.62	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.92	0.95	0.96	0.94	2.29	ppb
Vanadium	51-2	3.00	3.03	2.91	2.98	2.07	ppb
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	58.33	57.95	59.08	58.45	0.99	ppb
Zirconium	90-1	0.08	0.07	0.09	0.08	7.12	ppb
Zirconium	91-1	0.07	0.09	0.07	0.08	18.85	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48312.20	48161.06	49910.76	48794.67	1.99	ppb
Antimony	121-1	494.95	488.92	486.17	490.01	0.92	ppb
Arsenic	75-2	503.15	499.97	510.12	504.41	1.03	ppb
Barium	135-1	2498.98	2495.84	2464.52	2486.45	0.77	ppb
Barium	137-1	2502.00	2486.31	2451.41	2479.91	1.04	ppb
Beryllium	9-1	497.32	496.45	496.39	496.72	0.10	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	493.66	496.71	482.35	490.91	1.54	ppb
Cadmium	106-1	498.06	501.67	486.83	495.52	1.56	ppb
Cadmium	111-1	480.89	487.66	476.87	481.81	1.13	ppb
Calcium	43-1	248730.49	250448.30	254455.09	251211.29	1.17	ppb
Calcium	44-1	247690.14	249980.46	252882.44	250184.35	1.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	497.45	506.47	507.54	503.82	1.10	ppb
Cobalt	59-2	515.30	518.03	532.23	521.85	1.74	ppb
Copper	63-2	5085.92	5064.90	5194.80	5115.21	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				104		%
Holmium	165-2				104		%
Indium	115-1				92		%
Indium	115-2				92		%
Iron	56-2	129840.03	129957.69	130911.70	130236.47	0.45	ppb
Iron	57-2	127201.10	128084.63	131223.25	128836.33	1.64	ppb
Iron	54-2	129769.04	129899.98	131797.23	130488.75	0.87	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2547.17	2510.68	2526.14	2527.99	0.72	ppb
Lead	207-1	2552.84	2522.31	2540.15	2538.43	0.60	ppb
Lead	208-1	2545.48	2519.11	2534.54	2533.04	0.52	ppb
Lithium	6-1				102		%
Magnesium	24-2	245979.38	245293.75	250023.18	247098.77	1.03	ppb
Manganese	55-2	4966.33	4977.90	5069.24	5004.49	1.13	ppb
Molybdenum	94-1	5000.31	5000.59	5014.18	5005.03	0.16	ppb
Molybdenum	95-1	4983.74	5049.94	5027.34	5020.34	0.67	ppb
Molybdenum	96-1	5028.31	5022.98	5030.63	5027.31	0.08	ppb
Molybdenum	97-1	4986.51	4989.86	5047.82	5008.06	0.69	ppb
Molybdenum	98-1	4999.07	5033.24	5045.41	5025.91	0.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	499.71	501.26	509.03	503.34	0.99	ppb
Phosphorus	31-2	9776.77	9769.60	9928.74	9825.04	0.91	ppb
Potassium	39-2	121708.32	122476.06	124038.45	122740.94	0.97	ppb
Rhodium	103-1				85		%
Rhodium	103-2				89		%
Scandium	45-1				86		%
Scandium	45-2				90		%
Selenium	82-1	485.38	491.46	496.03	490.96	1.09	ppb
Selenium	77-2	483.26	481.19	497.85	487.43	1.86	ppb
Selenium	78-2	494.86	484.81	483.63	487.77	1.26	ppb
Silicon	28-1	515.65	528.06	524.14	522.61	1.21	ppb
Silver	107-1	482.63	481.68	477.40	480.57	0.58	ppb
Silver	109-1	484.04	485.64	472.86	480.85	1.45	ppb
Sodium	23-2	247711.35	250772.15	257597.14	252026.88	2.01	ppb
Strontium	86-1	12503.10	12526.65	12659.37	12563.04	0.67	ppb
Strontium	88-1	12414.95	12429.19	12700.60	12514.91	1.29	ppb
Sulfur	34-1	9570.70	9754.43	9675.81	9666.98	0.95	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	514.34	503.83	514.71	510.96	1.21	ppb
Thallium	205-1	513.91	505.18	513.00	510.70	0.94	ppb
Tin	118-1	492.69	495.28	493.84	493.94	0.26	ppb
Titanium	47-1	4935.21	4993.08	4982.83	4970.37	0.62	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	513.79	514.41	524.51	517.57	1.16	ppb
Vanadium	51-2	502.94	508.34	511.65	507.64	0.87	ppb
Yttrium	89-1				93		%
Yttrium	89-2				94		%
Zinc	66-2	5045.09	5053.34	5149.35	5082.59	1.14	ppb
Zirconium	90-1	508.84	507.90	504.15	506.97	0.49	ppb
Zirconium	91-1	495.84	509.00	507.41	504.09	1.42	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.06	7.46	6.77	7.43	8.70	ppb
Antimony	121-1	0.33	0.26	0.21	0.26	22.99	ppb
Arsenic	75-2	0.11	0.06	0.08	0.08	33.26	ppb
Barium	135-1	1.14	0.82	0.68	0.88	27.06	ppb
Barium	137-1	1.11	0.78	0.62	0.84	29.65	ppb
Beryllium	9-1	0.29	0.23	0.18	0.23	24.60	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.16	0.01	-0.02	0.05	187.16	ppb
Cadmium	106-1	-2.05	-2.28	-2.65	-2.32		ppb
Cadmium	111-1	0.10	0.03	-0.05	0.03	308.83	ppb
Calcium	43-1	117.89	83.19	64.19	88.42	30.79	ppb
Calcium	44-1	116.97	82.35	61.19	86.84	32.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.17	0.14	0.13	0.15	16.25	ppb
Cobalt	59-2	0.10	0.08	0.06	0.08	25.69	ppb
Copper	63-2	0.95	0.85	0.70	0.83	15.01	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				103		%
Holmium	165-2				103		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	56-2	24.02	21.70	19.26	21.66	10.99	ppb
Iron	57-2	21.38	17.51	15.41	18.10	16.73	ppb
Iron	54-2	25.51	21.16	20.21	22.29	12.67	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1.10	0.83	0.62	0.85	28.32	ppb
Lead	207-1	1.12	0.77	0.63	0.84	29.79	ppb
Lead	208-1	1.09	0.81	0.62	0.84	28.21	ppb
Lithium	6-1				106		%
Magnesium	24-2	41.41	38.32	33.69	37.81	10.28	ppb
Manganese	55-2	0.89	0.81	0.75	0.82	9.08	ppb
Molybdenum	94-1	2.50	1.81	1.43	1.91	28.15	ppb
Molybdenum	95-1	2.35	1.72	1.34	1.80	28.44	ppb
Molybdenum	96-1	2.38	1.71	1.38	1.82	28.17	ppb
Molybdenum	97-1	2.41	1.76	1.30	1.83	30.53	ppb
Molybdenum	98-1	2.39	1.75	1.35	1.83	28.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.42	-0.47	-0.42	-0.44		ppb
Phosphorus	31-2	-20.00	-20.62	-22.95	-21.19		ppb
Potassium	39-2	21.39	17.36	14.25	17.67	20.26	ppb
Rhodium	103-1				94		%
Rhodium	103-2				99		%
Scandium	45-1				86		%
Scandium	45-2				91		%
Selenium	82-1	0.52	0.05	0.32	0.30	78.41	ppb
Selenium	77-2	0.28	0.11	0.11	0.17	57.25	ppb
Selenium	78-2	-2.43	-2.06	-1.11	-1.87		ppb
Silicon	28-1	-5.13	-5.20	-5.29	-5.21		ppb
Silver	107-1	0.31	0.23	0.17	0.24	31.03	ppb
Silver	109-1	0.29	0.21	0.19	0.23	24.01	ppb
Sodium	23-2	75.52	68.98	60.85	68.45	10.74	ppb
Strontium	86-1	5.79	3.89	3.17	4.28	31.57	ppb
Strontium	88-1	5.58	4.31	3.08	4.33	28.84	ppb
Sulfur	34-1	-798.45	-732.33	-627.37	-719.38		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.29	0.21	0.18	0.23	23.98	ppb
Thallium	205-1	0.31	0.23	0.19	0.24	25.26	ppb
Tin	118-1	0.24	0.20	0.17	0.20	18.22	ppb
Titanium	47-1	2.28	1.63	1.25	1.72	30.22	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.20	0.14	0.10	0.15	34.75	ppb
Vanadium	51-2	0.09	0.10	0.07	0.09	14.66	ppb
Yttrium	89-1				93		%
Yttrium	89-2				96		%
Zinc	66-2	0.88	0.89	0.86	0.88	1.91	ppb
Zirconium	90-1	0.31	0.21	0.18	0.23	28.84	ppb
Zirconium	91-1	0.25	0.23	0.16	0.21	19.91	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9223.17	8616.60	8540.68	8793.48	4.25	ppb
Antimony	121-1	0.49	0.47	0.47	0.48	3.15	ppb
Arsenic	75-2	22.48	20.47	19.56	20.83	7.17	ppb
Barium	135-1	170.46	173.62	173.85	172.64	1.09	ppb
Barium	137-1	171.68	176.59	173.18	173.82	1.45	ppb
Beryllium	9-1	1.18	1.14	1.15	1.16	1.89	ppb
Bismuth	209-1				111		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	8.57	7.57	8.34	8.16	6.41	ppb
Cadmium	106-1	5.19	5.09	5.17	5.15	1.01	ppb
Cadmium	111-1	0.63	0.69	0.64	0.65	5.16	ppb
Calcium	43-1	18551.60	18748.98	18998.15	18766.24	1.19	ppb
Calcium	44-1	17945.94	18212.88	18429.61	18196.14	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	567.91	516.26	518.28	534.15	5.48	ppb
Cobalt	59-2	149.42	138.65	137.65	141.90	4.60	ppb
Copper	63-2	1247.20	1159.99	1160.71	1189.30	4.22	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				103		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	67258.77	62120.15	61248.68	63542.54	5.11	ppb
Iron	57-2	65167.10	61297.46	59819.78	62094.78	4.45	ppb
Iron	54-2	67319.16	62071.01	61641.12	63677.10	4.96	ppb
Krypton	83-1						cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	49.01	49.97	49.41	49.46	0.97	ppb
Lead	207-1	44.58	45.37	45.13	45.03	0.90	ppb
Lead	208-1	46.25	46.91	46.39	46.52	0.75	ppb
Lithium	6-1				110		%
Magnesium	24-2	1223.75	1125.04	1117.27	1155.35	5.14	ppb
Manganese	55-2	15548.28	14496.65	14497.84	14847.59	4.09	ppb
Molybdenum	94-1	2.33	2.30	2.34	2.32	0.75	ppb
Molybdenum	95-1	2.38	2.38	2.38	2.38	0.09	ppb
Molybdenum	96-1	2.60	2.57	2.67	2.61	1.89	ppb
Molybdenum	97-1	2.04	2.04	2.16	2.08	3.36	ppb
Molybdenum	98-1	2.04	2.05	2.07	2.05	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	384.46	355.82	353.55	364.61	4.72	ppb
Phosphorus	31-2	948.58	873.35	894.02	905.32	4.29	ppb
Potassium	39-2	1200.50	1096.59	1084.81	1127.30	5.65	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				90		%
Scandium	45-2				93		%
Selenium	82-1	0.81	0.40	0.89	0.70	37.53	ppb
Selenium	77-2	3.68	2.61	3.21	3.17	17.04	ppb
Selenium	78-2	1.26	0.54	-0.15	0.55	127.97	ppb
Silicon	28-1	65.12	65.97	69.60	66.89	3.56	ppb
Silver	107-1	1.52	1.55	1.54	1.54	0.91	ppb
Silver	109-1	1.55	1.54	1.56	1.55	0.67	ppb
Sodium	23-2	461.71	424.67	417.47	434.62	5.46	ppb
Strontium	86-1	2251.40	2269.04	2276.97	2265.80	0.58	ppb
Strontium	88-1	2350.48	2361.66	2384.26	2365.47	0.73	ppb
Sulfur	34-1	1493.22	1473.65	1465.53	1477.47	0.96	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.41	0.41	0.39	0.40	2.67	ppb
Thallium	205-1	0.41	0.40	0.39	0.40	3.39	ppb
Tin	118-1	33.63	34.76	34.33	34.24	1.67	ppb
Titanium	47-1	94.28	96.17	96.09	95.51	1.12	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.29	1.28	1.30	1.29	0.97	ppb
Vanadium	51-2	12.98	12.05	12.08	12.37	4.28	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	108.52	98.61	99.32	102.15	5.41	ppb
Zirconium	90-1	0.32	0.32	0.31	0.32	2.28	ppb
Zirconium	91-1	0.33	0.30	0.29	0.31	6.79	ppb

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LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3436.30	3486.80	3422.27	3448.46	0.98	ppb
Antimony	121-1	0.17	0.19	0.20	0.19	8.00	ppb
Arsenic	75-2	8.44	8.44	8.19	8.36	1.76	ppb
Barium	135-1	69.59	72.32	72.34	71.42	2.22	ppb
Barium	137-1	70.65	73.03	72.79	72.16	1.81	ppb
Beryllium	9-1	0.49	0.48	0.49	0.49	0.86	ppb
Bismuth	209-1				110		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	3.71	3.66	3.75	3.71	1.25	ppb
Cadmium	106-1	-0.12	0.79	0.60	0.42	114.26	ppb
Cadmium	111-1	0.05	0.13	0.12	0.10	45.21	ppb
Calcium	43-1	7612.68	7756.50	7868.58	7745.92	1.66	ppb
Calcium	44-1	7341.61	7528.02	7581.98	7483.87	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	211.35	213.41	211.07	211.94	0.60	ppb
Cobalt	59-2	56.60	57.16	56.07	56.61	0.96	ppb
Copper	63-2	477.49	475.95	477.52	476.99	0.19	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				106		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	56-2	25372.10	25467.31	25170.51	25336.64	0.60	ppb
Iron	57-2	24862.77	24775.15	24462.64	24700.19	0.85	ppb
Iron	54-2	25951.32	25811.84	25453.57	25738.91	1.00	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	20.05	20.16	20.53	20.24	1.24	ppb
Lead	207-1	18.12	18.46	18.75	18.44	1.72	ppb
Lead	208-1	18.85	19.09	19.42	19.12	1.50	ppb
Lithium	6-1				108		%
Magnesium	24-2	465.83	466.07	458.50	463.47	0.93	ppb
Manganese	55-2	5949.92	5990.72	5885.30	5941.98	0.89	ppb
Molybdenum	94-1	0.87	0.91	0.89	0.89	2.26	ppb
Molybdenum	95-1	0.93	0.98	0.93	0.94	2.91	ppb
Molybdenum	96-1	0.98	1.03	1.04	1.02	2.86	ppb
Molybdenum	97-1	0.78	0.80	0.81	0.80	2.01	ppb
Molybdenum	98-1	0.77	0.83	0.80	0.80	3.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	145.62	147.38	145.35	146.12	0.76	ppb
Phosphorus	31-2	336.77	364.25	349.76	350.26	3.93	ppb
Potassium	39-2	445.96	452.53	447.80	448.76	0.76	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				90		%
Scandium	45-2				94		%
Selenium	82-1	0.25	0.24	0.52	0.34	46.55	ppb
Selenium	77-2	1.08	1.39	1.39	1.29	13.66	ppb
Selenium	78-2	-1.02	-0.85	-0.93	-0.93		ppb
Silicon	28-1	24.94	26.18	28.49	26.54	6.78	ppb
Silver	107-1	0.60	0.62	0.63	0.62	2.83	ppb
Silver	109-1	0.59	0.60	0.62	0.61	2.11	ppb
Sodium	23-2	179.87	180.49	179.17	179.85	0.37	ppb
Strontium	86-1	917.52	952.51	972.29	947.44	2.93	ppb
Strontium	88-1	930.34	965.30	961.88	952.51	2.02	ppb
Sulfur	34-1	-146.72	-80.58	-17.92	-81.74		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	0.14	0.14	0.14	0.14	1.70	ppb
Thallium	205-1	0.14	0.14	0.14	0.14	2.53	ppb
Tin	118-1	13.84	14.37	14.21	14.14	1.93	ppb
Titanium	47-1	38.55	39.55	39.90	39.33	1.79	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.50	0.52	0.52	0.51	1.98	ppb
Vanadium	51-2	4.88	5.18	4.90	4.99	3.39	ppb
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	41.91	41.96	41.08	41.65	1.19	ppb
Zirconium	90-1	0.12	0.11	0.11	0.11	2.19	ppb
Zirconium	91-1	0.11	0.11	0.13	0.12	9.29	ppb

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	28552.03	29203.65	29171.19	28975.62	1.27	ppb
Antimony	121-1	4.40	4.39	4.46	4.42	0.85	ppb
Arsenic	75-2	150.07	149.48	152.75	150.77	1.16	ppb
Barium	135-1	204.01	205.11	207.16	205.43	0.78	ppb
Barium	137-1	205.72	204.66	208.62	206.33	0.99	ppb
Beryllium	9-1	4.00	4.28	3.78	4.02	6.23	ppb
Bismuth	209-1				111		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	73.32	77.40	75.22	75.31	2.71	ppb
Cadmium	106-1	51.38	51.70	52.84	51.97	1.47	ppb
Cadmium	111-1	1.70	1.49	1.85	1.68	10.67	ppb
Calcium	43-1	26654.90	27015.06	27139.71	26936.56	0.93	ppb
Calcium	44-1	25599.01	25882.18	26228.97	25903.39	1.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1060.69	1076.31	1076.98	1071.32	0.86	ppb
Cobalt	59-2	16.05	16.04	16.22	16.10	0.62	ppb
Copper	63-2	1805.27	1855.45	1847.64	1836.12	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				108		%
Holmium	165-2				106		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	56-2	60665.19	60564.64	60877.61	60702.48	0.26	ppb
Iron	57-2	58687.95	59700.39	59365.11	59251.15	0.87	ppb
Iron	54-2	60766.57	60998.64	61910.38	61225.20	0.99	ppb
Krypton	83-1						cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	556.87	551.57	554.16	554.20	0.48	ppb
Lead	207-1	504.62	510.26	518.41	511.10	1.36	ppb
Lead	208-1	528.73	524.81	531.44	528.33	0.63	ppb
Lithium	6-1				113		%
Magnesium	24-2	4827.13	4815.90	4897.61	4846.88	0.91	ppb
Manganese	55-2	2540.60	2530.24	2549.44	2540.09	0.38	ppb
Molybdenum	94-1	3.90	4.05	4.08	4.01	2.38	ppb
Molybdenum	95-1	3.46	3.36	3.49	3.44	1.99	ppb
Molybdenum	96-1	4.02	4.00	3.93	3.98	1.07	ppb
Molybdenum	97-1	3.42	3.42	3.39	3.41	0.56	ppb
Molybdenum	98-1	3.38	3.47	3.39	3.41	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	175.94	179.51	180.05	178.50	1.25	ppb
Phosphorus	31-2	1949.11	1917.47	1945.02	1937.20	0.89	ppb
Potassium	39-2	1608.02	1619.46	1625.82	1617.76	0.56	ppb
Rhodium	103-1				98		%
Rhodium	103-2				101		%
Scandium	45-1				93		%
Scandium	45-2				97		%
Selenium	82-1	11.24	10.96	11.48	11.23	2.33	ppb
Selenium	77-2	15.67	15.50	17.11	16.09	5.51	ppb
Selenium	78-2	12.93	11.78	11.35	12.02	6.82	ppb
Silicon	28-1	244.87	250.75	251.48	249.03	1.46	ppb
Silver	107-1	2.53	2.53	2.50	2.52	0.70	ppb
Silver	109-1	2.53	2.50	2.54	2.52	0.82	ppb
Sodium	23-2	4091.77	4129.44	4136.01	4119.07	0.58	ppb
Strontium	86-1	4645.14	4730.04	4715.25	4696.81	0.97	ppb
Strontium	88-1	4757.18	4895.13	4866.96	4839.76	1.51	ppb
Sulfur	34-1	3620.94	3596.18	3748.94	3655.35	2.24	ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.27	0.25	0.27	0.26	4.00	ppb
Thallium	205-1	0.26	0.25	0.25	0.25	1.99	ppb
Tin	118-1	1057.23	1051.44	1067.06	1058.58	0.75	ppb
Titanium	47-1	468.67	474.41	478.58	473.89	1.05	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.05	2.07	2.09	2.07	1.02	ppb
Vanadium	51-2	32.28	32.77	32.69	32.58	0.81	ppb
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	711.13	725.55	727.45	721.37	1.24	ppb
Zirconium	90-1	0.66	0.67	0.64	0.66	2.50	ppb
Zirconium	91-1	0.69	0.68	0.67	0.68	1.63	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11965.08	11901.55	11976.08	11947.57	0.34	ppb
Antimony	121-1	0.04	0.04	0.04	0.04	1.30	ppb
Arsenic	75-2	6.95	6.30	6.69	6.65	4.94	ppb
Barium	135-1	47.74	49.39	48.87	48.67	1.73	ppb
Barium	137-1	48.36	49.66	48.91	48.97	1.33	ppb
Beryllium	9-1	0.67	0.65	0.69	0.67	2.79	ppb
Bismuth	209-1				108		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.23	0.09	0.22	0.18	43.76	ppb
Cadmium	106-1	-1.64	-2.50	-1.75	-1.96		ppb
Cadmium	111-1	-0.03	-0.08	-0.02	-0.04		ppb
Calcium	43-1	1621.00	1587.57	1649.93	1619.50	1.93	ppb
Calcium	44-1	1615.48	1620.57	1631.61	1622.55	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	31.56	31.10	30.82	31.16	1.21	ppb
Cobalt	59-2	5.23	5.10	5.00	5.11	2.23	ppb
Copper	63-2	11.45	11.10	11.22	11.26	1.58	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				100		%
Indium	115-2				99		%
Iron	56-2	12526.91	12494.06	12371.00	12463.99	0.66	ppb
Iron	57-2	12612.26	12497.20	12526.68	12545.38	0.48	ppb
Iron	54-2	12741.41	12681.66	12677.84	12700.30	0.28	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	164.46	169.30	169.50	167.75	1.70	ppb
Lead	207-1	161.43	168.87	167.79	166.03	2.42	ppb
Lead	208-1	171.09	175.17	175.58	173.95	1.43	ppb
Lithium	6-1				105		%
Magnesium	24-2	3806.10	3818.71	3753.98	3792.93	0.90	ppb
Manganese	55-2	150.71	151.03	149.00	150.25	0.73	ppb
Molybdenum	94-1	2.35	2.40	2.40	2.38	1.20	ppb
Molybdenum	95-1	0.51	0.49	0.52	0.51	3.37	ppb
Molybdenum	96-1	0.83	0.82	0.84	0.83	1.18	ppb
Molybdenum	97-1	0.54	0.51	0.54	0.53	2.94	ppb
Molybdenum	98-1	0.49	0.51	0.52	0.50	3.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	17.72	17.22	17.20	17.38	1.70	ppb
Phosphorus	31-2	353.97	375.13	367.45	365.52	2.93	ppb
Potassium	39-2	1116.49	1117.95	1093.70	1109.38	1.23	ppb
Rhodium	103-1				97		%
Rhodium	103-2				102		%
Scandium	45-1				92		%
Scandium	45-2				98		%
Selenium	82-1	10.68	10.69	10.73	10.70	0.25	ppb
Selenium	77-2	13.82	12.92	12.42	13.05	5.44	ppb
Selenium	78-2	10.66	10.85	10.29	10.60	2.72	ppb
Silicon	28-1	38.58	39.69	40.83	39.70	2.84	ppb
Silver	107-1	0.06	0.06	0.05	0.06	12.56	ppb
Silver	109-1	0.06	0.05	0.05	0.05	9.44	ppb
Sodium	23-2	186.00	183.90	184.82	184.90	0.57	ppb
Strontium	86-1	197.67	203.50	206.09	202.42	2.13	ppb
Strontium	88-1	203.10	205.44	205.98	204.84	0.75	ppb
Sulfur	34-1	-825.44	-887.47	-922.37	-878.43		ppb
Terbium	159-1				104		%
Terbium	159-2				105		%
Thallium	203-1	0.18	0.18	0.19	0.19	3.37	ppb
Thallium	205-1	0.18	0.18	0.19	0.18	2.30	ppb
Tin	118-1	1.09	0.75	0.57	0.80	32.52	ppb
Titanium	47-1	460.32	467.51	471.53	466.45	1.22	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.92	2.00	1.99	1.97	2.29	ppb
Vanadium	51-2	27.22	27.26	26.77	27.08	1.02	ppb
Yttrium	89-1				99		%
Yttrium	89-2				102		%
Zinc	66-2	47.19	47.38	45.68	46.75	1.99	ppb
Zirconium	90-1	1.07	1.08	1.09	1.08	0.97	ppb
Zirconium	91-1	1.09	1.12	1.10	1.10	1.52	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48487.77	49407.52	49801.71	49232.33	1.37	ppb
Antimony	121-1	475.47	491.75	497.21	488.15	2.32	ppb
Arsenic	75-2	512.68	516.89	513.59	514.39	0.43	ppb
Barium	135-1	2463.61	2495.50	2487.27	2482.13	0.67	ppb
Barium	137-1	2412.97	2463.38	2439.23	2438.52	1.03	ppb
Beryllium	9-1	480.83	492.61	491.97	488.47	1.36	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	487.98	495.30	494.51	492.60	0.82	ppb
Cadmium	106-1	481.12	495.09	492.07	489.42	1.50	ppb
Cadmium	111-1	475.06	484.63	489.07	482.92	1.48	ppb
Calcium	43-1	244095.02	251500.58	245890.48	247162.03	1.56	ppb
Calcium	44-1	243748.39	251801.22	248339.43	247963.01	1.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	505.44	505.07	506.99	505.83	0.20	ppb
Cobalt	59-2	514.46	526.29	526.86	522.53	1.34	ppb
Copper	63-2	5081.93	5080.37	5072.91	5078.40	0.09	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				102		%
Indium	115-1				90		%
Indium	115-2				90		%
Iron	56-2	128000.86	130811.65	129529.21	129447.24	1.09	ppb
Iron	57-2	127893.33	129345.45	129371.96	128870.25	0.66	ppb
Iron	54-2	128142.02	130310.15	130242.12	129564.76	0.95	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2510.77	2521.20	2532.94	2521.64	0.44	ppb
Lead	207-1	2505.34	2511.85	2510.98	2509.39	0.14	ppb
Lead	208-1	2506.03	2511.40	2521.60	2513.01	0.31	ppb
Lithium	6-1				104		%
Magnesium	24-2	247387.49	251696.58	253009.31	250697.79	1.17	ppb
Manganese	55-2	4928.78	5041.83	5056.86	5009.16	1.40	ppb
Molybdenum	94-1	4933.14	4980.45	5088.77	5000.79	1.60	ppb
Molybdenum	95-1	4929.50	4980.27	5108.21	5005.99	1.84	ppb
Molybdenum	96-1	4945.23	5013.59	5075.30	5011.37	1.30	ppb
Molybdenum	97-1	4917.84	5018.37	5089.87	5008.70	1.73	ppb
Molybdenum	98-1	4959.40	5042.45	5066.95	5022.93	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	502.58	514.45	511.29	509.44	1.21	ppb
Phosphorus	31-2	9772.46	9821.93	9847.34	9813.91	0.39	ppb
Potassium	39-2	122325.69	122929.40	124543.59	123266.23	0.93	ppb
Rhodium	103-1				85		%
Rhodium	103-2				88		%
Scandium	45-1				84		%
Scandium	45-2				89		%
Selenium	82-1	490.49	495.57	500.56	495.54	1.02	ppb
Selenium	77-2	504.30	496.43	506.30	502.34	1.04	ppb
Selenium	78-2	488.54	493.92	504.81	495.76	1.67	ppb
Silicon	28-1	517.98	525.61	520.61	521.40	0.74	ppb
Silver	107-1	493.42	503.35	501.58	499.45	1.06	ppb
Silver	109-1	493.57	500.19	505.39	499.72	1.19	ppb
Sodium	23-2	250783.17	254764.20	255758.71	253768.69	1.04	ppb
Strontium	86-1	12273.79	12415.21	12517.98	12402.33	0.99	ppb
Strontium	88-1	12303.54	12452.62	12648.86	12468.34	1.39	ppb
Sulfur	34-1	9226.77	9451.00	9249.92	9309.23	1.32	ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	502.22	508.91	508.39	506.51	0.74	ppb
Thallium	205-1	500.67	510.83	509.71	507.07	1.10	ppb
Tin	118-1	479.86	491.17	492.77	487.93	1.44	ppb
Titanium	47-1	4906.44	4984.74	4912.74	4934.64	0.88	ppb

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	516.96	511.56	521.20	516.57	0.94	ppb
Vanadium	51-2	502.98	512.99	510.10	508.69	1.01	ppb
Yttrium	89-1				91		%
Yttrium	89-2				94		%
Zinc	66-2	4994.13	5096.79	5079.32	5056.75	1.09	ppb
Zirconium	90-1	498.32	504.62	513.54	505.49	1.51	ppb
Zirconium	91-1	496.93	500.94	504.17	500.68	0.72	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.15	7.45	6.71	7.44	9.64	ppb
Antimony	121-1	0.29	0.24	0.19	0.24	20.40	ppb
Arsenic	75-2	0.06	0.07	0.06	0.06	8.95	ppb
Barium	135-1	0.84	0.68	0.54	0.69	21.48	ppb
Barium	137-1	0.92	0.69	0.54	0.72	27.35	ppb
Beryllium	9-1	0.22	0.15	0.15	0.18	23.07	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.17	0.11	0.11	0.13	25.93	ppb
Cadmium	106-1	-2.29	-2.52	-3.59	-2.80		ppb
Cadmium	111-1	0.02	-0.04	-0.11	-0.04		ppb
Calcium	43-1	94.12	69.42	53.24	72.26	28.49	ppb
Calcium	44-1	94.47	69.73	55.04	73.08	27.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.08	0.10	0.09	10.28	ppb
Cobalt	59-2	0.08	0.07	0.05	0.07	19.69	ppb
Copper	63-2	0.81	0.72	0.60	0.71	14.80	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				103		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	56-2	23.38	21.00	19.16	21.18	10.01	ppb
Iron	57-2	18.81	16.23	17.30	17.44	7.42	ppb
Iron	54-2	21.95	22.28	19.01	21.08	8.53	ppb
Krypton	83-1						cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.92	0.65	0.53	0.70	28.67	ppb
Lead	207-1	0.87	0.67	0.52	0.69	25.27	ppb
Lead	208-1	0.90	0.66	0.53	0.69	26.85	ppb
Lithium	6-1				107		%
Magnesium	24-2	39.26	33.65	33.51	35.47	9.25	ppb
Manganese	55-2	0.89	0.86	0.76	0.84	8.15	ppb
Molybdenum	94-1	2.00	1.63	1.30	1.64	21.37	ppb
Molybdenum	95-1	1.87	1.47	1.18	1.50	23.15	ppb
Molybdenum	96-1	1.93	1.52	1.14	1.53	26.04	ppb
Molybdenum	97-1	1.96	1.54	1.20	1.57	24.15	ppb
Molybdenum	98-1	1.87	1.50	1.18	1.52	22.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.60	-0.56	-0.59	-0.58		ppb
Phosphorus	31-2	-22.26	-15.64	-19.93	-19.28		ppb
Potassium	39-2	10.29	10.54	6.68	9.17	23.57	ppb
Rhodium	103-1				93		%
Rhodium	103-2				99		%
Scandium	45-1				86		%
Scandium	45-2				90		%
Selenium	82-1	0.25	0.08	-0.26	0.02	1254.29	ppb
Selenium	77-2	0.28	0.28	0.11	0.22	43.24	ppb
Selenium	78-2	-0.93	-1.49	-1.46	-1.29		ppb
Silicon	28-1	-5.09	-5.14	-5.26	-5.16		ppb
Silver	107-1	0.23	0.17	0.12	0.17	32.33	ppb
Silver	109-1	0.22	0.16	0.13	0.17	27.14	ppb
Sodium	23-2	64.68	60.35	55.01	60.01	8.07	ppb
Strontium	86-1	4.29	3.12	2.23	3.22	32.16	ppb
Strontium	88-1	4.63	3.73	2.76	3.70	25.26	ppb
Sulfur	34-1	-749.00	-778.39	-770.84	-766.08		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.20	0.16	0.14	0.16	19.43	ppb
Thallium	205-1	0.22	0.16	0.14	0.17	24.51	ppb
Tin	118-1	0.19	0.12	0.12	0.14	26.36	ppb
Titanium	47-1	1.89	1.59	1.10	1.53	26.16	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.16	0.12	0.10	0.13	23.89	ppb
Vanadium	51-2	0.07	0.05	0.08	0.06	22.39	ppb
Yttrium	89-1				93		%
Yttrium	89-2				96		%
Zinc	66-2	0.80	0.77	0.85	0.81	4.72	ppb
Zirconium	90-1	0.23	0.20	0.18	0.20	12.38	ppb
Zirconium	91-1	0.23	0.17	0.15	0.18	19.94	ppb

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	310	333	363	336	7.97	cps
Antimony	121-1	43	30	43	39	19.79	cps
Arsenic	75-2	10	23	10	14	53.28	cps
Barium	135-1	67	60	60	62	6.19	cps
Barium	137-1	97	133	117	116	15.89	cps
Beryllium	9-1	47	80	67	64	26.03	cps
Bismuth	209-1	7099431	7049295	7127652	7092126	0.56	cps
Bismuth	209-2	5996187	5994855	5993773	5994938	0.02	cps
Bromine	81-1	15905	16282	16182	16123	1.21	cps
Bromine	81-2	180	133	137	150	17.35	cps
Cadmium	108-1	23	13	13	17	34.65	cps
Cadmium	106-1	5341	5304	5054	5233	2.98	cps
Cadmium	111-1	3732	3710	3532	3658	3.00	cps
Calcium	43-1	320	430	397	382	14.76	cps
Calcium	44-1	12229	11915	12042	12062	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1237	1263	1283	1261	1.86	cps
Cobalt	59-2	143	133	157	144	8.10	cps
Copper	63-2	2784	2600	2697	2694	3.41	cps
Dysprosium	156-1	3	17	10	10	66.70	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	70	47	63	60	20.03	cps
Erbium	164-2	33	57	27	39	40.51	cps
Gadolinium	160-1	33	43	47	41	16.89	cps
Gadolinium	160-2	497	463	453	471	4.82	cps
Holmium	165-1	11783660	11573261	11511478	11622800	1.23	cps
Holmium	165-2	8816046	8743722	8786175	8781981	0.41	cps
Indium	115-1	9159362	9116902	9097242	9124502	0.35	cps
Indium	115-2	4176053	4080566	4091473	4116031	1.27	cps
Iron	56-2	26500	26093	26750	26448	1.26	cps
Iron	57-2	1740	1733	1907	1793	5.48	cps
Iron	54-2	3300	3294	3290	3295	0.15	cps
Krypton	83-1	237	260	197	231	13.86	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	603	673	607	628	6.29	cps
Lead	207-1	523	547	553	541	2.91	cps
Lead	208-1	2370	2617	2403	2463	5.43	cps
Lithium	6-1	1100187	1088991	1093743	1094307	0.51	cps
Magnesium	24-2	1397	1270	1257	1308	5.91	cps
Manganese	55-2	420	383	483	429	11.80	cps
Molybdenum	94-1	253	237	207	232	10.18	cps
Molybdenum	95-1	130	127	150	136	9.31	cps
Molybdenum	96-1	213	210	157	193	16.45	cps
Molybdenum	97-1	113	63	123	100	32.15	cps
Molybdenum	98-1	233	190	233	219	11.43	cps
Neodymium	150-1	10	0	3	4	114.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	3407	3430	3711	3516	4.80	cps
Phosphorus	31-2	273	300	317	297	7.37	cps
Potassium	39-2	68791	66996	66953	67580	1.55	cps
Rhodium	103-1	8658528	8653124	8442531	8584728	1.43	cps
Rhodium	103-2	5563906	5480356	5493146	5512469	0.82	cps
Scandium	45-1	4770324	4791022	4697353	4752899	1.04	cps
Scandium	45-2	533919	538599	536159	536226	0.44	cps
Selenium	82-1	377	350	437	388	11.45	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	590	590	683	621	8.68	cps
Silicon	28-1	873527	1175926	876138	975197	17.83	cps
Silver	107-1	67	113	77	86	28.71	cps
Silver	109-1	33	30	23	29	17.63	cps
Sodium	23-2	22754	22296	21929	22326	1.85	cps
Strontium	86-1	340	433	383	386	12.11	cps
Strontium	88-1	203	220	210	211	3.97	cps
Sulfur	34-1	161911	161836	162632	162126	0.27	cps
Terbium	159-1	11939224	11851836	11734254	11841771	0.87	cps
Terbium	159-2	8584844	8671425	8622924	8626398	0.50	cps
Thallium	203-1	130	127	167	141	15.73	cps
Thallium	205-1	320	320	233	291	17.19	cps
Tin	118-1	1463	1387	1317	1389	5.28	cps
Titanium	47-1	80	103	97	93	12.88	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:25:31	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	93	97	33	74	47.88	cps
Vanadium	51-2	13	7	10	10	33.30	cps
Yttrium	89-1	16216154	15793556	15621571	15877094	1.93	cps
Yttrium	89-2	5309137	5207234	5164865	5227079	1.42	cps
Zinc	66-2	560	650	590	600	7.64	cps
Zirconium	90-1	540	490	420	483	12.47	cps
Zirconium	91-1	80	100	130	103	24.35	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5508	5484	5394	5462	1.10	cps
Antimony	121-1	19840	19901	19814	19852	0.22	cps
Arsenic	75-2	683	697	730	703	3.42	cps
Barium	135-1	24848	25169	25496	25171	1.29	cps
Barium	137-1	43938	43894	43683	43838	0.31	cps
Beryllium	9-1	1100	1120	1120	1113	1.04	cps
Bismuth	209-1	7186176	7192523	7186238	7188312	0.05	cps
Bismuth	209-2	6039413	6048737	5974084	6020745	0.68	cps
Bromine	81-1	15935	15495	15862	15764	1.50	cps
Bromine	81-2	87	107	140	111	24.25	cps
Cadmium	108-1	177	217	227	207	12.80	cps
Cadmium	106-1	5738	5264	5518	5507	4.30	cps
Cadmium	111-1	6563	6110	6377	6350	3.58	cps
Calcium	43-1	13319	13369	13236	13308	0.51	cps
Calcium	44-1	222537	225454	225231	224407	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10724	10437	10540	10567	1.37	cps
Cobalt	59-2	7585	7345	7352	7427	1.84	cps
Copper	63-2	13566	13126	13319	13337	1.66	cps
Dysprosium	156-1	20	7	3	10	88.20	cps
Dysprosium	156-2	17	7	17	13	43.29	cps
Erbium	164-1	60	50	47	52	13.28	cps
Erbium	164-2	67	60	30	52	37.40	cps
Gadolinium	160-1	50	37	47	44	15.61	cps
Gadolinium	160-2	413	413	570	466	19.43	cps
Holmium	165-1	11777255	11677879	11396376	11617170	1.70	cps
Holmium	165-2	8890812	8879088	8831487	8867129	0.35	cps
Indium	115-1	9318765	9166234	9004589	9163196	1.71	cps
Indium	115-2	4140261	4122993	4097318	4120191	0.52	cps
Iron	56-2	248508	248973	246919	248133	0.43	cps
Iron	57-2	7662	7389	7742	7598	2.44	cps
Iron	54-2	15939	15888	15435	15754	1.76	cps
Krypton	83-1	257	190	200	216	16.68	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	7809	8183	8286	8092	3.10	cps
Lead	207-1	6908	7259	7019	7062	2.54	cps
Lead	208-1	31631	32792	32722	32382	2.01	cps
Lithium	6-1	1070532	1093577	1079200	1081103	1.08	cps
Magnesium	24-2	210563	211669	209770	210667	0.45	cps
Manganese	55-2	4137	4251	4271	4220	1.70	cps
Molybdenum	94-1	20384	20518	20341	20414	0.45	cps
Molybdenum	95-1	24738	24724	25252	24905	1.21	cps
Molybdenum	96-1	27840	28318	27636	27931	1.25	cps
Molybdenum	97-1	15869	15805	15832	15835	0.20	cps
Molybdenum	98-1	40656	39864	40269	40263	0.98	cps
Neodymium	150-1	17	13	0	10	88.20	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	5191	5001	5244	5145	2.49	cps
Phosphorus	31-2	790	737	743	757	3.84	cps
Potassium	39-2	375292	375565	374958	375272	0.08	cps
Rhodium	103-1	8717198	8641912	8468708	8609273	1.48	cps
Rhodium	103-2	5638682	5510744	5524552	5557993	1.26	cps
Scandium	45-1	4741385	4704514	4724876	4723591	0.39	cps
Scandium	45-2	537099	542420	541234	540251	0.52	cps
Selenium	82-1	1062	1187	1235	1161	7.68	cps
Selenium	77-2	70	130	103	101	29.73	cps
Selenium	78-2	957	1110	1093	1053	7.99	cps
Silicon	28-1	1200851	1187230	1184913	1190998	0.72	cps
Silver	107-1	12552	12419	12365	12445	0.77	cps
Silver	109-1	11708	11308	11635	11550	1.85	cps
Sodium	23-2	349564	347586	349927	349025	0.36	cps
Strontium	86-1	3557	3590	3587	3578	0.51	cps
Strontium	88-1	28074	28147	28170	28130	0.18	cps
Sulfur	34-1	160263	159917	160412	160197	0.16	cps
Terbium	159-1	11844081	11738460	11889427	11823989	0.66	cps
Terbium	159-2	8675143	8673659	8607245	8652016	0.45	cps
Thallium	203-1	9273	9360	9427	9353	0.82	cps
Thallium	205-1	21657	21954	22172	21928	1.18	cps
Tin	118-1	42620	42369	42442	42477	0.30	cps
Titanium	47-1	6248	6035	5875	6052	3.10	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P7
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:28:50	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	28855	28911	28848	28871	0.12	cps
Vanadium	51-2	20377	20474	20234	20362	0.59	cps
Yttrium	89-1	15883315	15882419	15866329	15877354	0.06	cps
Yttrium	89-2	5267258	5343453	5200648	5270453	1.36	cps
Zinc	66-2	4831	5014	5008	4951	2.10	cps
Zirconium	90-1	16850	17257	16686	16931	1.74	cps
Zirconium	91-1	3894	3604	4014	3837	5.49	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	253837	248500	249117	250485	1.17	cps
Antimony	121-1	482265	488247	487489	486000	0.67	cps
Arsenic	75-2	30271	29392	29984	29882	1.50	cps
Barium	135-1	603473	612748	609590	608604	0.77	cps
Barium	137-1	1045043	1054318	1055896	1051752	0.56	cps
Beryllium	9-1	52572	53131	53916	53206	1.27	cps
Bismuth	209-1	7282743	7218538	7239517	7246933	0.45	cps
Bismuth	209-2	6057894	6075502	6066032	6066476	0.15	cps
Bromine	81-1	15301	15028	14414	14914	3.05	cps
Bromine	81-2	103	113	147	121	18.74	cps
Cadmium	108-1	9066	9380	9383	9276	1.96	cps
Cadmium	106-1	18802	19086	18989	18959	0.76	cps
Cadmium	111-1	130912	131509	130938	131119	0.26	cps
Calcium	43-1	125245	123061	121425	123243	1.56	cps
Calcium	44-1	1947610	1938276	1900292	1928726	1.30	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	220309	220792	217901	219668	0.70	cps
Cobalt	59-2	332082	331158	329290	330843	0.43	cps
Copper	63-2	2190232	2176623	2175737	2180864	0.37	cps
Dysprosium	156-1	37	27	17	27	37.50	cps
Dysprosium	156-2	53	80	57	63	22.94	cps
Erbium	164-1	70	70	67	69	2.79	cps
Erbium	164-2	67	67	43	59	22.88	cps
Gadolinium	160-1	60	50	70	60	16.67	cps
Gadolinium	160-2	447	483	453	461	4.24	cps
Holmium	165-1	11784651	11853011	11858044	11831902	0.35	cps
Holmium	165-2	8998708	8987347	8772297	8919451	1.43	cps
Indium	115-1	9226552	9219740	9074872	9173722	0.93	cps
Indium	115-2	4114231	4093868	4031337	4079812	1.06	cps
Iron	56-2	10010464	9949098	9936048	9965204	0.40	cps
Iron	57-2	261490	259913	258518	259974	0.57	cps
Iron	54-2	570149	568373	568603	569042	0.17	cps
Krypton	83-1	250	187	210	216	14.86	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1918905	1918450	1925383	1920913	0.20	cps
Lead	207-1	1580429	1589997	1604091	1591506	0.75	cps
Lead	208-1	7633686	7662246	7758347	7684760	0.85	cps
Lithium	6-1	1086477	1100474	1136479	1107810	2.33	cps
Magnesium	24-2	1953525	1970350	1993188	1972354	1.01	cps
Manganese	55-2	1800653	1746435	1774020	1773703	1.53	cps
Molybdenum	94-1	1683067	1694508	1697100	1691559	0.44	cps
Molybdenum	95-1	2414821	2469465	2420967	2435084	1.23	cps
Molybdenum	96-1	2672366	2650669	2674713	2665916	0.50	cps
Molybdenum	97-1	1504864	1513132	1502917	1506971	0.36	cps
Molybdenum	98-1	3889780	3952459	3903979	3915406	0.84	cps
Neodymium	150-1	60	67	50	59	14.25	cps
Neodymium	150-2	17	7	30	18	65.83	cps
Nickel	60-2	84684	85736	85814	85411	0.74	cps
Phosphorus	31-2	12712	12479	12989	12726	2.01	cps
Potassium	39-2	1467225	1450853	1415470	1444516	1.83	cps
Rhodium	103-1	8619122	8600506	8570732	8596787	0.28	cps
Rhodium	103-2	5517060	5370981	5488181	5458741	1.42	cps
Scandium	45-1	4783595	4761845	4662191	4735877	1.37	cps
Scandium	45-2	530413	532498	528147	530353	0.41	cps
Selenium	82-1	7846	7943	7858	7882	0.67	cps
Selenium	77-2	997	987	1057	1013	3.74	cps
Selenium	78-2	3987	4011	4161	4053	2.32	cps
Silicon	28-1	4266107	4203153	4228284	4232514	0.75	cps
Silver	107-1	628555	635727	633297	632526	0.58	cps
Silver	109-1	587228	590986	597272	591829	0.86	cps
Sodium	23-2	3133196	3169753	3147384	3150111	0.59	cps
Strontium	86-1	160042	159577	159992	159870	0.16	cps
Strontium	88-1	1392726	1409142	1394456	1398775	0.64	cps
Sulfur	34-1	187832	187555	185592	186993	0.65	cps
Terbium	159-1	11969399	11905894	11871007	11915433	0.42	cps
Terbium	159-2	8762099	8715457	8683348	8720302	0.45	cps
Thallium	203-1	456875	463404	466852	462377	1.10	cps
Thallium	205-1	1083049	1101049	1111056	1098385	1.29	cps
Tin	118-1	404498	410114	407122	407245	0.69	cps
Titanium	47-1	564570	561103	558773	561482	0.52	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P7
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:32:07	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1403109	1415213	1434845	1417722	1.13	cps
Vanadium	51-2	194584	192936	197275	194932	1.12	cps
Yttrium	89-1	16086944	15721061	15797241	15868415	1.22	cps
Yttrium	89-2	5278653	5171369	5165012	5205011	1.23	cps
Zinc	66-2	400590	398355	397368	398771	0.41	cps
Zirconium	90-1	810239	817342	822554	816712	0.76	cps
Zirconium	91-1	181741	182094	183302	182379	0.45	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	618223	627590	622837	622883	0.75	cps
Antimony	121-1	1244058	1263270	1250544	1252624	0.78	cps
Arsenic	75-2	74248	73615	73353	73738	0.62	cps
Barium	135-1	1624135	1570719	1646584	1613812	2.41	cps
Barium	137-1	2792419	2834133	2835644	2820732	0.87	cps
Beryllium	9-1	137956	140074	139166	139065	0.76	cps
Bismuth	209-1	7562103	7492299	7347926	7467443	1.46	cps
Bismuth	209-2	6122536	6104201	6112193	6112977	0.15	cps
Bromine	81-1	14654	14244	13800	14233	3.00	cps
Bromine	81-2	103	107	93	101	6.87	cps
Cadmium	108-1	23629	24387	23703	23906	1.75	cps
Cadmium	106-1	39082	39537	39119	39246	0.64	cps
Cadmium	111-1	328834	329047	326770	328217	0.38	cps
Calcium	43-1	303611	306403	305765	305260	0.48	cps
Calcium	44-1	4783777	4768027	4738215	4763339	0.49	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	544373	549159	548499	547344	0.47	cps
Cobalt	59-2	821143	822424	817559	820375	0.31	cps
Copper	63-2	5405221	5369258	5412156	5395545	0.43	cps
Dysprosium	156-1	57	53	23	44	41.31	cps
Dysprosium	156-2	107	87	127	107	18.75	cps
Erbium	164-1	83	83	97	88	8.77	cps
Erbium	164-2	50	47	37	44	15.61	cps
Gadolinium	160-1	83	57	53	64	25.51	cps
Gadolinium	160-2	437	483	490	470	6.18	cps
Holmium	165-1	12260502	11817115	11879699	11985772	2.00	cps
Holmium	165-2	9035042	8971619	8879107	8961923	0.88	cps
Indium	115-1	9288632	9033320	8896285	9072746	2.19	cps
Indium	115-2	4016908	3984442	3962680	3988010	0.68	cps
Iron	56-2	25006150	24775880	25115544	24965858	0.69	cps
Iron	57-2	641745	645436	644118	643766	0.29	cps
Iron	54-2	1346406	1355503	1403473	1368461	2.24	cps
Krypton	83-1	190	187	190	189	1.02	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5055556	5181182	5115215	5117318	1.23	cps
Lead	207-1	4492943	4589971	4533471	4538795	1.07	cps
Lead	208-1	20544322	20946643	20688605	20726523	0.98	cps
Lithium	6-1	1179097	1184655	1163882	1175878	0.91	cps
Magnesium	24-2	4890455	4938355	4940568	4923126	0.58	cps
Manganese	55-2	4412632	4457825	4451572	4440676	0.55	cps
Molybdenum	94-1	4230805	4269330	4256287	4252141	0.46	cps
Molybdenum	95-1	6146643	6160149	6100522	6135771	0.51	cps
Molybdenum	96-1	6745594	6766569	6648124	6720096	0.94	cps
Molybdenum	97-1	3845528	3862121	3835665	3847771	0.35	cps
Molybdenum	98-1	9855108	9956144	9946514	9919255	0.56	cps
Neodymium	150-1	147	110	127	128	14.37	cps
Neodymium	150-2	40	47	20	36	39.03	cps
Nickel	60-2	207025	206870	205870	206588	0.30	cps
Phosphorus	31-2	30711	30450	31362	30841	1.52	cps
Potassium	39-2	3516873	3487017	3526766	3510219	0.59	cps
Rhodium	103-1	8611156	8310084	8323523	8414921	2.02	cps
Rhodium	103-2	5294484	5362980	5296818	5318094	0.73	cps
Scandium	45-1	4736311	4551523	4473591	4587142	2.94	cps
Scandium	45-2	521941	518794	515215	518650	0.65	cps
Selenium	82-1	19302	19499	19439	19413	0.52	cps
Selenium	77-2	2600	2734	2677	2670	2.51	cps
Selenium	78-2	9320	9150	9093	9187	1.28	cps
Silicon	28-1	8741472	8828517	8626697	8732229	1.16	cps
Silver	107-1	1647523	1648887	1612382	1636264	1.26	cps
Silver	109-1	1505617	1514592	1513576	1511262	0.33	cps
Sodium	23-2	7842874	7917062	7896829	7885588	0.49	cps
Strontium	86-1	404295	403025	400697	402672	0.45	cps
Strontium	88-1	3587166	3588877	3588558	3588200	0.03	cps
Sulfur	34-1	226209	224965	222830	224668	0.76	cps
Terbium	159-1	12361988	11997339	11939656	12099661	1.89	cps
Terbium	159-2	8735717	8819519	8670693	8741976	0.85	cps
Thallium	203-1	1216763	1232265	1241937	1230322	1.03	cps
Thallium	205-1	3125543	3178308	3115778	3139876	1.07	cps
Tin	118-1	1041545	1045002	1047650	1044732	0.29	cps
Titanium	47-1	1398978	1384637	1378469	1387362	0.76	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P7
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:35:10	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4089678	4180755	4181680	4150704	1.27	cps
Vanadium	51-2	480405	484164	483683	482751	0.42	cps
Yttrium	89-1	15933803	15491644	15453252	15626233	1.71	cps
Yttrium	89-2	5042877	5129506	5076280	5082887	0.86	cps
Zinc	66-2	995728	1000426	997348	997834	0.24	cps
Zirconium	90-1	2089680	2105606	2092300	2095862	0.41	cps
Zirconium	91-1	463860	465563	465168	464864	0.19	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1170996	1193764	1151831	1172197	1.79	cps
Antimony	121-1	2503698	2536851	2515885	2518811	0.67	cps
Arsenic	75-2	140202	139313	138674	139396	0.55	cps
Barium	135-1	3177060	3239981	3084677	3167239	2.47	cps
Barium	137-1	5478268	5489231	5406761	5458087	0.82	cps
Beryllium	9-1	273805	273172	272519	273166	0.24	cps
Bismuth	209-1	7392506	7471175	7322327	7395336	1.01	cps
Bismuth	209-2	6114586	6144285	6110133	6123001	0.30	cps
Bromine	81-1	13039	13042	12605	12896	1.95	cps
Bromine	81-2	107	87	93	96	10.66	cps
Cadmium	108-1	46043	46538	46260	46280	0.54	cps
Cadmium	106-1	70373	69873	68869	69705	1.10	cps
Cadmium	111-1	621565	631680	617277	623507	1.19	cps
Calcium	43-1	574706	573678	560196	569527	1.42	cps
Calcium	44-1	8962936	8957546	8819535	8913339	0.91	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1033843	1017346	1034008	1028399	0.93	cps
Cobalt	59-2	1557537	1543145	1535505	1545396	0.72	cps
Copper	63-2	10085586	10108777	9997159	10063841	0.59	cps
Dysprosium	156-1	90	60	97	82	23.76	cps
Dysprosium	156-2	233	180	197	203	13.42	cps
Erbium	164-1	130	83	87	100	26.03	cps
Erbium	164-2	87	80	67	78	13.09	cps
Gadolinium	160-1	113	103	60	92	30.74	cps
Gadolinium	160-2	460	543	477	493	8.94	cps
Holmium	165-1	11779751	11793725	11745286	11772921	0.21	cps
Holmium	165-2	8907473	8871291	8802664	8860476	0.60	cps
Indium	115-1	8730376	8664385	8695401	8696721	0.38	cps
Indium	115-2	3782873	3760485	3808861	3784073	0.64	cps
Iron	56-2	46954406	46857066	46714214	46841895	0.26	cps
Iron	57-2	1219332	1208816	1210828	1212992	0.46	cps
Iron	54-2	2595414	2570799	2632427	2599547	1.19	cps
Krypton	83-1	200	243	160	201	20.73	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10096510	10344212	10233750	10224824	1.21	cps
Lead	207-1	9059260	9164872	9079493	9101208	0.62	cps
Lead	208-1	41189132	41986984	41212330	41462816	1.10	cps
Lithium	6-1	1180801	1173481	1188803	1181028	0.65	cps
Magnesium	24-2	9415504	9349515	9317217	9360745	0.54	cps
Manganese	55-2	8475035	8453986	8407973	8445665	0.41	cps
Molybdenum	94-1	8167811	8236437	8021385	8141878	1.35	cps
Molybdenum	95-1	11711196	11731175	11526628	11656333	0.97	cps
Molybdenum	96-1	12891871	12917836	12760428	12856712	0.66	cps
Molybdenum	97-1	7375749	7454412	7264247	7364803	1.30	cps
Molybdenum	98-1	18953842	18989553	18529778	18824391	1.36	cps
Neodymium	150-1	180	233	240	218	15.10	cps
Neodymium	150-2	80	63	97	80	20.84	cps
Nickel	60-2	385360	383037	383476	383958	0.32	cps
Phosphorus	31-2	57855	56905	57022	57261	0.90	cps
Potassium	39-2	6539728	6401236	6378561	6439842	1.35	cps
Rhodium	103-1	8019398	7903075	7693640	7872038	2.10	cps
Rhodium	103-2	5133895	5023414	5032046	5063118	1.21	cps
Scandium	45-1	4304666	4290036	4140226	4244976	2.14	cps
Scandium	45-2	486991	477787	487925	484234	1.16	cps
Selenium	82-1	36185	36235	35447	35956	1.23	cps
Selenium	77-2	5144	4664	4884	4898	4.91	cps
Selenium	78-2	17090	16900	16873	16954	0.70	cps
Silicon	28-1	15223477	15238836	14842689	15101667	1.49	cps
Silver	107-1	3141407	3114599	3122853	3126286	0.44	cps
Silver	109-1	2989232	2944714	2908013	2947320	1.38	cps
Sodium	23-2	15170497	15038532	14905150	15038060	0.88	cps
Strontium	86-1	769738	769085	758972	765931	0.79	cps
Strontium	88-1	6857553	6932587	6695976	6828705	1.77	cps
Sulfur	34-1	284459	279721	273313	279164	2.00	cps
Terbium	159-1	12036582	11832401	11842128	11903704	0.97	cps
Terbium	159-2	8667970	8587961	8635843	8630591	0.47	cps
Thallium	203-1	2652100	2651247	2616597	2639982	0.77	cps
Thallium	205-1	6348024	6295091	6351167	6331427	0.50	cps
Tin	118-1	2084613	2081907	2073624	2080048	0.28	cps
Titanium	47-1	2605835	2602322	2534712	2580956	1.55	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P7
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:38:06	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	8311099	8523597	8438338	8424345	1.27	cps
Vanadium	51-2	908086	901462	914194	907914	0.70	cps
Yttrium	89-1	15095896	14950678	14463314	14836629	2.23	cps
Yttrium	89-2	4882742	4853024	4881177	4872315	0.34	cps
Zinc	66-2	1926717	1902061	1905636	1911471	0.70	cps
Zirconium	90-1	4014343	4010727	3941397	3988822	1.03	cps
Zirconium	91-1	882995	888232	870889	880705	1.01	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2327071	2299495	2322591	2316385	0.64	cps
Antimony	121-1	4892945	4966975	4957757	4939226	0.82	cps
Arsenic	75-2	275947	275522	274043	275171	0.36	cps
Barium	135-1	6131693	6273418	6292653	6232588	1.41	cps
Barium	137-1	10618843	10737850	10744539	10700411	0.66	cps
Beryllium	9-1	531601	537487	533978	534355	0.55	cps
Bismuth	209-1	7288883	7406200	7466367	7387150	1.22	cps
Bismuth	209-2	6116334	6061495	6070861	6082897	0.48	cps
Bromine	81-1	12402	12492	12612	12502	0.84	cps
Bromine	81-2	107	117	90	104	12.90	cps
Cadmium	108-1	89061	89068	89507	89212	0.29	cps
Cadmium	106-1	128795	131037	128721	129518	1.02	cps
Cadmium	111-1	1196974	1207305	1213380	1205887	0.69	cps
Calcium	43-1	1084548	1086602	1089443	1086865	0.23	cps
Calcium	44-1	17054471	17116959	17050175	17073868	0.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1989698	2027376	1989960	2002345	1.08	cps
Cobalt	59-2	3074705	3061063	3050893	3062220	0.39	cps
Copper	63-2	19764583	19506063	19573076	19614574	0.68	cps
Dysprosium	156-1	167	133	160	153	11.50	cps
Dysprosium	156-2	430	483	520	478	9.47	cps
Erbium	164-1	163	170	120	151	17.97	cps
Erbium	164-2	103	117	117	112	6.86	cps
Gadolinium	160-1	113	120	130	121	6.93	cps
Gadolinium	160-2	497	490	403	463	11.24	cps
Holmium	165-1	11720046	11764101	11915443	11799863	0.87	cps
Holmium	165-2	9081918	8869404	8944322	8965215	1.20	cps
Indium	115-1	8452089	8422505	8374573	8416389	0.46	cps
Indium	115-2	3754428	3734151	3742791	3743790	0.27	cps
Iron	56-2	93110425	93198395	93304292	93204371	0.10	cps
Iron	57-2	2307644	2353355	2280426	2313809	1.59	cps
Iron	54-2	5082131	5111933	5096340	5096801	0.29	cps
Krypton	83-1	153	203	190	182	14.21	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20102028	20900300	20792033	20598120	2.10	cps
Lead	207-1	18002394	18338412	18441316	18260707	1.26	cps
Lead	208-1	81758438	83332736	84189545	83093573	1.48	cps
Lithium	6-1	1189646	1187143	1216609	1197800	1.36	cps
Magnesium	24-2	18516601	18449258	18281898	18415919	0.66	cps
Manganese	55-2	16776418	16622050	16867283	16755250	0.74	cps
Molybdenum	94-1	15679904	15883937	15857248	15807029	0.70	cps
Molybdenum	95-1	22606481	22788721	22891650	22762284	0.63	cps
Molybdenum	96-1	24993620	25065506	25077125	25045417	0.18	cps
Molybdenum	97-1	14124200	14174470	14349274	14215981	0.83	cps
Molybdenum	98-1	36903780	36718520	37053820	36892040	0.46	cps
Neodymium	150-1	437	480	480	466	5.37	cps
Neodymium	150-2	127	173	170	157	16.62	cps
Nickel	60-2	741958	742028	737090	740359	0.38	cps
Phosphorus	31-2	110915	111714	110509	111046	0.55	cps
Potassium	39-2	12732233	12594334	12610382	12645650	0.60	cps
Rhodium	103-1	7670007	7419640	7564369	7551339	1.66	cps
Rhodium	103-2	5008694	5024607	4978394	5003898	0.47	cps
Scandium	45-1	4059716	4049794	4052218	4053909	0.13	cps
Scandium	45-2	479013	477125	476961	477700	0.24	cps
Selenium	82-1	68668	69422	69110	69067	0.55	cps
Selenium	77-2	9660	9500	9523	9561	0.90	cps
Selenium	78-2	33668	33097	32369	33045	1.97	cps
Silicon	28-1	27727330	27604971	27547005	27626436	0.33	cps
Silver	107-1	5930713	5956084	5936756	5941184	0.22	cps
Silver	109-1	5652219	5726582	5662623	5680475	0.71	cps
Sodium	23-2	29800715	29490936	29241546	29511066	0.95	cps
Strontium	86-1	1504022	1507886	1511068	1507658	0.23	cps
Strontium	88-1	13122914	13292929	13426727	13280857	1.15	cps
Sulfur	34-1	402972	403559	399996	402176	0.48	cps
Terbium	159-1	11903322	11947091	11805212	11885209	0.61	cps
Terbium	159-2	8738309	8752617	8659934	8716953	0.57	cps
Thallium	203-1	5170996	5245334	5343848	5253393	1.65	cps
Thallium	205-1	12380402	12691836	12689363	12587200	1.42	cps
Tin	118-1	4033634	4123217	4100046	4085632	1.14	cps
Titanium	47-1	4891559	4909481	4900456	4900499	0.18	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P7
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:40:52	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16877027	17212673	17423320	17171007	1.60	cps
Vanadium	51-2	1774914	1825126	1782325	1794122	1.51	cps
Yttrium	89-1	14512741	14559935	14448022	14506900	0.39	cps
Yttrium	89-2	4797353	4833298	4780138	4803596	0.56	cps
Zinc	66-2	3743418	3747908	3729862	3740396	0.25	cps
Zirconium	90-1	7640217	7739167	7731613	7703666	0.71	cps
Zirconium	91-1	1711081	1727042	1748046	1728723	1.07	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4692518	4684565	4639475	4672186	0.61	cps
Antimony	121-1	9839063	9897882	9821903	9852949	0.40	cps
Arsenic	75-2	547202	549249	551246	549233	0.37	cps
Barium	135-1	12667040	12717875	12546025	12643646	0.70	cps
Barium	137-1	21774462	22020455	21769008	21854642	0.66	cps
Beryllium	9-1	1034010	1056991	1023829	1038276	1.64	cps
Bismuth	209-1	7287426	7357104	7270526	7305019	0.63	cps
Bismuth	209-2	5936893	5898662	5947383	5927646	0.43	cps
Bromine	81-1	12495	12676	13216	12796	2.93	cps
Bromine	81-2	70	130	103	101	29.73	cps
Cadmium	108-1	173014	177913	176117	175682	1.41	cps
Cadmium	106-1	253133	251511	251505	252050	0.37	cps
Cadmium	111-1	2443456	2430580	2443025	2439021	0.30	cps
Calcium	43-1	2088256	2099656	2070425	2086112	0.71	cps
Calcium	44-1	34073202	34304161	34111104	34162822	0.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4039465	3997720	3993270	4010152	0.64	cps
Cobalt	59-2	6046625	5989293	6066438	6034119	0.66	cps
Copper	63-2	38525021	38980954	38562309	38689428	0.65	cps
Dysprosium	156-1	307	293	290	297	2.97	cps
Dysprosium	156-2	800	870	850	840	4.29	cps
Erbium	164-1	230	307	300	279	15.23	cps
Erbium	164-2	177	183	180	180	1.85	cps
Gadolinium	160-1	170	187	213	190	11.51	cps
Gadolinium	160-2	543	600	513	552	7.97	cps
Holmium	165-1	11909190	11949813	11898286	11919096	0.23	cps
Holmium	165-2	8965214	8903050	8928690	8932318	0.35	cps
Indium	115-1	8325097	8309109	8295196	8309801	0.18	cps
Indium	115-2	3679072	3726700	3670591	3692121	0.82	cps
Iron	56-2	184950384	183710877	184365584	184342282	0.34	cps
Iron	57-2	4602837	4576570	4624903	4601437	0.53	cps
Iron	54-2	10164338	10075554	10052203	10097365	0.59	cps
Krypton	83-1	193	227	157	192	18.21	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	41475230	41836947	41628787	41646988	0.44	cps
Lead	207-1	36808983	36938984	36914614	36887527	0.19	cps
Lead	208-1	167445505	168899600	168045597	168130234	0.43	cps
Lithium	6-1	1193706	1191041	1164488	1183078	1.37	cps
Magnesium	24-2	36881351	36817680	36713629	36804220	0.23	cps
Manganese	55-2	33259915	32964753	33119183	33114617	0.45	cps
Molybdenum	94-1	32018594	32125288	32052177	32065353	0.17	cps
Molybdenum	95-1	45936629	46376324	46242009	46184988	0.49	cps
Molybdenum	96-1	50553534	50729311	50814918	50699254	0.26	cps
Molybdenum	97-1	28811495	28839295	28887646	28846145	0.13	cps
Molybdenum	98-1	74459462	74135979	74433902	74343114	0.24	cps
Neodymium	150-1	877	803	857	846	4.48	cps
Neodymium	150-2	293	300	317	303	3.96	cps
Nickel	60-2	1442716	1447364	1450256	1446779	0.26	cps
Phosphorus	31-2	223734	222443	224116	223431	0.39	cps
Potassium	39-2	25473009	25330615	25400302	25401309	0.28	cps
Rhodium	103-1	7370970	7426921	7447870	7415254	0.54	cps
Rhodium	103-2	4899160	4983710	4912811	4931894	0.92	cps
Scandium	45-1	4042801	4042030	4043950	4042927	0.02	cps
Scandium	45-2	479764	479309	482005	480359	0.30	cps
Selenium	82-1	137110	136990	136474	136858	0.25	cps
Selenium	77-2	19420	19079	19610	19369	1.39	cps
Selenium	78-2	64801	62943	64181	63975	1.48	cps
Silicon	28-1	53066719	52210349	52209351	52495473	0.94	cps
Silver	107-1	11783192	11858661	11740115	11793990	0.51	cps
Silver	109-1	11167169	11219134	11245930	11210744	0.36	cps
Sodium	23-2	59158684	59145989	58517059	58940577	0.62	cps
Strontium	86-1	3095390	3098896	3069808	3088031	0.51	cps
Strontium	88-1	26887440	27040980	26940682	26956367	0.29	cps
Sulfur	34-1	679190	677360	679228	678592	0.16	cps
Terbium	159-1	12083713	12050741	11958545	12031000	0.54	cps
Terbium	159-2	8851628	8715401	8780388	8782472	0.78	cps
Thallium	203-1	10665207	10725865	10555762	10648944	0.81	cps
Thallium	205-1	25394987	25896272	25380716	25557325	1.15	cps
Tin	118-1	8082533	8228741	8223263	8178179	1.01	cps
Titanium	47-1	9904905	9924117	9922417	9917147	0.11	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P7
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:43:39	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	35168083	35518981	34858835	35181966	0.94	cps
Vanadium	51-2	3594136	3596568	3572275	3587659	0.37	cps
Yttrium	89-1	14392074	14576303	14550839	14506405	0.69	cps
Yttrium	89-2	4839754	4886965	4864810	4863843	0.49	cps
Zinc	66-2	7378486	7385574	7322074	7362045	0.47	cps
Zirconium	90-1	15643816	15747635	15610678	15667377	0.46	cps
Zirconium	91-1	3505101	3487037	3481541	3491226	0.35	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24291121	24374081	24389551	24351585	0.22	cps
Antimony	121-1	8403	7112	6295	7270	14.62	cps
Arsenic	75-2	487	497	393	459	12.42	cps
Barium	135-1	9930	8816	8129	8958	10.15	cps
Barium	137-1	17835	15779	14100	15905	11.76	cps
Beryllium	9-1	857	633	603	698	19.84	cps
Bismuth	209-1	6362894	6346120	6336879	6348631	0.21	cps
Bismuth	209-2	5230784	5229910	5250451	5237048	0.22	cps
Bromine	81-1	13850	14257	14771	14293	3.23	cps
Bromine	81-2	133	120	127	127	5.27	cps
Cadmium	108-1	157	170	130	152	13.38	cps
Cadmium	106-1	5318	4811	4994	5041	5.09	cps
Cadmium	111-1	5146	4405	4312	4621	9.89	cps
Calcium	43-1	10361730	10649775	10685503	10565669	1.68	cps
Calcium	44-1	169865291	174934851	175536524	173445555	1.80	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11884	10590	9880	10785	9.42	cps
Cobalt	59-2	18004	18388	18111	18168	1.09	cps
Copper	63-2	15538	15268	14587	15131	3.24	cps
Dysprosium	156-1	327	393	390	370	10.15	cps
Dysprosium	156-2	387	347	377	370	5.63	cps
Erbium	164-1	387	420	450	419	7.56	cps
Erbium	164-2	353	320	353	342	5.62	cps
Gadolinium	160-1	320	410	400	377	13.10	cps
Gadolinium	160-2	797	670	777	748	9.11	cps
Holmium	165-1	11383814	11368620	11150349	11300928	1.16	cps
Holmium	165-2	8600730	8582982	8573489	8585734	0.16	cps
Indium	115-1	7868487	7787652	7968841	7874993	1.15	cps
Indium	115-2	3617989	3615164	3600155	3611103	0.27	cps
Iron	56-2	925598866	924694333	934586199	928293133	0.59	cps
Iron	57-2	23221916	23458612	23317279	23332602	0.51	cps
Iron	54-2	50031996	50054693	50429073	50171920	0.44	cps
Krypton	83-1	220	280	267	256	12.33	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	22763	18256	16050	19023	17.99	cps
Lead	207-1	19658	15783	13520	16320	19.02	cps
Lead	208-1	90087	73195	62897	75393	18.21	cps
Lithium	6-1	1125725	1132733	1102359	1120272	1.42	cps
Magnesium	24-2	192747750	192973637	195378170	193699853	0.75	cps
Manganese	55-2	26136	25655	24817	25536	2.61	cps
Molybdenum	94-1	30091	26337	24424	26951	10.70	cps
Molybdenum	95-1	28458	23552	20705	24238	16.18	cps
Molybdenum	96-1	42462	36639	33432	37511	12.20	cps
Molybdenum	97-1	17975	14691	12535	15067	18.18	cps
Molybdenum	98-1	45501	37167	31962	38210	17.87	cps
Neodymium	150-1	187	197	160	181	10.47	cps
Neodymium	150-2	157	133	130	140	10.38	cps
Nickel	60-2	9240	8496	8849	8862	4.20	cps
Phosphorus	31-2	307	393	420	373	15.87	cps
Potassium	39-2	135293168	133699921	136000528	134997872	0.87	cps
Rhodium	103-1	6720647	6873131	6915607	6836462	1.50	cps
Rhodium	103-2	4559244	4633248	4631827	4608106	0.92	cps
Scandium	45-1	4007443	4095003	4117986	4073477	1.43	cps
Scandium	45-2	492636	491461	495816	493304	0.46	cps
Selenium	82-1	513	453	562	509	10.66	cps
Selenium	77-2	10	3	3	6	69.34	cps
Selenium	78-2	530	667	513	570	14.76	cps
Silicon	28-1	687211	685259	684034	685501	0.23	cps
Silver	107-1	6895	5705	4721	5773	18.86	cps
Silver	109-1	6548	5211	4487	5416	19.31	cps
Sodium	23-2	298992029	301596949	303019522	301202833	0.68	cps
Strontium	86-1	10801	10834	10944	10860	0.69	cps
Strontium	88-1	93303	92629	91428	92454	1.03	cps
Sulfur	34-1	119274	124777	130773	124941	4.60	cps
Terbium	159-1	11213793	11333778	11286611	11278061	0.54	cps
Terbium	159-2	8298739	8335073	8357812	8330541	0.36	cps
Thallium	203-1	6005	4474	3684	4721	24.99	cps
Thallium	205-1	13447	10648	8773	10956	21.47	cps
Tin	118-1	6358	5148	4818	5441	14.91	cps
Titanium	47-1	5935	4841	4361	5045	15.99	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P7
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:46:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	16701	13363	10891	13652	21.36	cps
Vanadium	51-2	1973	1820	1707	1833	7.30	cps
Yttrium	89-1	14106153	14117499	14264739	14162797	0.62	cps
Yttrium	89-2	4797646	4835401	4845639	4826229	0.52	cps
Zinc	66-2	5194	5104	5028	5109	1.63	cps
Zirconium	90-1	34885	33562	32312	33586	3.83	cps
Zirconium	91-1	7759	7349	7148	7419	4.19	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	130953	130667	130620	130746	0.14	cps
Antimony	121-1	2038058	2060778	2081586	2060141	1.06	cps
Arsenic	75-2	124197	124543	123747	124163	0.32	cps
Barium	135-1	257888	264224	260595	260902	1.22	cps
Barium	137-1	448456	453062	453260	451593	0.60	cps
Beryllium	9-1	115666	116233	115246	115715	0.43	cps
Bismuth	209-1	7415294	7506514	7499562	7473790	0.68	cps
Bismuth	209-2	6210301	6210550	6292092	6237648	0.76	cps
Bromine	81-1	15432	15378	15378	15396	0.20	cps
Bromine	81-2	90	87	100	92	7.52	cps
Cadmium	108-1	17537	17150	17327	17338	1.12	cps
Cadmium	106-1	28455	28992	28782	28743	0.94	cps
Cadmium	111-1	260791	265812	269208	265270	1.60	cps
Calcium	43-1	56856	54491	53096	54814	3.47	cps
Calcium	44-1	942721	902906	894324	913317	2.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	462992	458716	457345	459684	0.64	cps
Cobalt	59-2	689821	689218	691732	690257	0.19	cps
Copper	63-2	463689	467065	461151	463968	0.64	cps
Dysprosium	156-1	23	20	0	14	87.37	cps
Dysprosium	156-2	30	17	27	24	28.38	cps
Erbium	164-1	57	70	80	69	16.99	cps
Erbium	164-2	40	30	63	44	38.48	cps
Gadolinium	160-1	47	57	53	52	9.75	cps
Gadolinium	160-2	450	457	460	456	1.12	cps
Holmium	165-1	11921238	12010796	11878460	11936831	0.57	cps
Holmium	165-2	9019163	9040990	8994762	9018305	0.26	cps
Indium	115-1	9076154	9098461	9096823	9090480	0.14	cps
Indium	115-2	4089442	4052654	3997459	4046519	1.14	cps
Iron	56-2	8510631	8601852	8526716	8546400	0.57	cps
Iron	57-2	220325	221549	219351	220408	0.50	cps
Iron	54-2	498025	501267	495057	498116	0.62	cps
Krypton	83-1	200	160	167	176	12.21	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1617354	1635908	1651885	1635049	1.06	cps
Lead	207-1	1348653	1356039	1380899	1361864	1.24	cps
Lead	208-1	6611326	6651700	6719379	6660802	0.82	cps
Lithium	6-1	1241208	1220142	1232935	1231428	0.86	cps
Magnesium	24-2	494576	491588	484628	490264	1.04	cps
Manganese	55-2	376050	374594	378381	376342	0.51	cps
Molybdenum	94-1	4231	2640	1983	2951	39.15	cps
Molybdenum	95-1	5935	3444	2817	4065	40.57	cps
Molybdenum	96-1	6522	4124	3524	4723	33.58	cps
Molybdenum	97-1	3347	2157	1890	2465	31.47	cps
Molybdenum	98-1	9470	5678	4717	6622	37.95	cps
Neodymium	150-1	20	17	17	18	10.81	cps
Neodymium	150-2	10	17	10	12	31.50	cps
Nickel	60-2	178093	176353	175645	176697	0.71	cps
Phosphorus	31-2	370	363	337	357	4.95	cps
Potassium	39-2	1215234	1220702	1209403	1215113	0.47	cps
Rhodium	103-1	8469603	8327348	8400774	8399242	0.85	cps
Rhodium	103-2	5544185	5539202	5523271	5535553	0.20	cps
Scandium	45-1	4554508	4532954	4569923	4552462	0.41	cps
Scandium	45-2	530300	531790	533621	531904	0.31	cps
Selenium	82-1	31220	31808	31984	31670	1.26	cps
Selenium	77-2	4494	4657	4467	4540	2.27	cps
Selenium	78-2	15245	15538	15158	15314	1.30	cps
Silicon	28-1	696726	694427	693055	694736	0.27	cps
Silver	107-1	597026	610744	618367	608712	1.78	cps
Silver	109-1	566833	577358	577342	573844	1.06	cps
Sodium	23-2	1350537	1384428	1387388	1374118	1.49	cps
Strontium	86-1	1443	1383	1317	1381	4.59	cps
Strontium	88-1	10177	8679	8563	9140	9.85	cps
Sulfur	34-1	148900	149415	147938	148751	0.50	cps
Terbium	159-1	12139537	12066307	12014614	12073486	0.52	cps
Terbium	159-2	8863213	8912860	8856773	8877615	0.35	cps
Thallium	203-1	2124870	2148262	2141787	2138306	0.56	cps
Thallium	205-1	5075469	5144620	5130874	5116987	0.72	cps
Tin	118-1	2454	1927	1837	2072	16.08	cps
Titanium	47-1	1263	623	507	798	51.07	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICV002	Instrumnet Name :	P7
Client Sample ID :	ICV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:51:36	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2974	1480	1007	1820	56.40	cps
Vanadium	51-2	396866	395931	393003	395267	0.51	cps
Yttrium	89-1	15637041	15526074	15565149	15576088	0.36	cps
Yttrium	89-2	5203354	5157398	5207967	5189573	0.54	cps
Zinc	66-2	169341	167825	167153	168107	0.67	cps
Zirconium	90-1	2587	1643	1403	1878	33.32	cps
Zirconium	91-1	660	543	450	551	19.09	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	617	613	567	599	4.67	cps
Antimony	121-1	1620	1360	1193	1391	15.46	cps
Arsenic	75-2	33	37	43	38	13.48	cps
Barium	135-1	187	203	180	190	6.33	cps
Barium	137-1	333	347	257	312	15.56	cps
Beryllium	9-1	217	150	157	174	21.05	cps
Bismuth	209-1	7330652	7300745	7386449	7339282	0.59	cps
Bismuth	209-2	6306931	6208761	6148926	6221539	1.28	cps
Bromine	81-1	14928	14994	14944	14955	0.23	cps
Bromine	81-2	113	173	130	139	22.30	cps
Cadmium	108-1	20	20	10	17	34.64	cps
Cadmium	106-1	5188	5074	5328	5197	2.44	cps
Cadmium	111-1	3814	3665	3832	3770	2.44	cps
Calcium	43-1	527	447	477	483	8.36	cps
Calcium	44-1	14047	13577	12906	13510	4.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1340	1413	1303	1352	4.14	cps
Cobalt	59-2	347	237	247	277	21.99	cps
Copper	63-2	2664	2547	2764	2658	4.08	cps
Dysprosium	156-1	13	23	10	16	44.60	cps
Dysprosium	156-2	7	13	10	10	33.30	cps
Erbium	164-1	63	63	47	58	16.65	cps
Erbium	164-2	57	57	53	56	3.47	cps
Gadolinium	160-1	77	33	40	50	46.67	cps
Gadolinium	160-2	520	540	463	508	7.83	cps
Holmium	165-1	11901488	11833166	11885628	11873427	0.30	cps
Holmium	165-2	8977853	8857623	8820545	8885340	0.93	cps
Indium	115-1	9115874	9144113	9093810	9117932	0.28	cps
Indium	115-2	4096735	4093407	4056981	4082374	0.54	cps
Iron	56-2	41651	39729	38660	40013	3.79	cps
Iron	57-2	1800	1847	1870	1839	1.94	cps
Iron	54-2	4164	4027	4084	4092	1.68	cps
Krypton	83-1	257	233	180	223	17.60	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2070	1850	1630	1850	11.89	cps
Lead	207-1	1623	1573	1413	1537	7.14	cps
Lead	208-1	7858	7244	6617	7240	8.57	cps
Lithium	6-1	1246653	1204811	1230201	1227221	1.72	cps
Magnesium	24-2	3524	3110	3194	3276	6.67	cps
Manganese	55-2	597	493	513	534	10.25	cps
Molybdenum	94-1	473	487	453	471	3.56	cps
Molybdenum	95-1	530	443	410	461	13.43	cps
Molybdenum	96-1	610	520	527	552	9.08	cps
Molybdenum	97-1	303	267	270	280	7.24	cps
Molybdenum	98-1	807	677	667	717	10.90	cps
Neodymium	150-1	3	3	3	3	0.00	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	2867	3064	3187	3039	5.31	cps
Phosphorus	31-2	307	350	323	327	6.69	cps
Potassium	39-2	64901	65868	65614	65461	0.77	cps
Rhodium	103-1	8417354	8439233	8499465	8452017	0.50	cps
Rhodium	103-2	5599382	5455811	5487936	5514376	1.37	cps
Scandium	45-1	4532394	4553064	4579481	4554980	0.52	cps
Scandium	45-2	526782	531011	529583	529126	0.41	cps
Selenium	82-1	301	354	378	345	11.39	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	647	623	510	593	12.32	cps
Silicon	28-1	699053	697124	696905	697694	0.17	cps
Silver	107-1	620	540	450	537	15.85	cps
Silver	109-1	590	463	397	483	20.32	cps
Sodium	23-2	40483	40313	40373	40389	0.21	cps
Strontium	86-1	373	387	343	368	6.04	cps
Strontium	88-1	247	280	270	266	6.44	cps
Sulfur	34-1	147551	147521	147887	147653	0.14	cps
Terbium	159-1	11924897	11937046	11934285	11932076	0.05	cps
Terbium	159-2	8858538	8798395	8706031	8787655	0.87	cps
Thallium	203-1	1227	923	717	956	26.85	cps
Thallium	205-1	2684	1994	1737	2138	22.90	cps
Tin	118-1	1567	1453	1410	1477	5.48	cps
Titanium	47-1	120	137	123	127	6.96	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICB002	Instrumnet Name :	P7
Client Sample ID :	ICB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 14:55:10	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	243	173	127	181	32.42	cps
Vanadium	51-2	67	107	77	83	24.98	cps
Yttrium	89-1	15583619	15662701	15557276	15601199	0.35	cps
Yttrium	89-2	5277055	5071601	5190394	5179683	1.99	cps
Zinc	66-2	723	637	673	678	6.42	cps
Zirconium	90-1	570	657	567	598	8.54	cps
Zirconium	91-1	120	123	143	129	9.79	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21670010	21706780	21651014	21675934	0.13	cps
Antimony	121-1	10224	10007	10457	10229	2.20	cps
Arsenic	75-2	207	200	200	202	1.90	cps
Barium	135-1	3344	3327	3410	3360	1.31	cps
Barium	137-1	5985	6018	5801	5935	1.97	cps
Beryllium	9-1	407	417	347	390	9.71	cps
Bismuth	209-1	6985943	7064196	7040346	7030162	0.57	cps
Bismuth	209-2	5901929	5871773	5868942	5880881	0.31	cps
Bromine	81-1	13937	14547	14577	14354	2.52	cps
Bromine	81-2	263	223	210	232	11.95	cps
Cadmium	108-1	1497	1367	1530	1465	5.89	cps
Cadmium	106-1	4844	4617	4637	4700	2.67	cps
Cadmium	111-1	4120	4292	4015	4143	3.38	cps
Calcium	43-1	2086013	2105451	2091646	2094370	0.48	cps
Calcium	44-1	33964284	34567664	34562023	34364657	1.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	81783	81602	81944	81777	0.21	cps
Cobalt	59-2	7956	7775	7792	7841	1.27	cps
Copper	63-2	31840	32438	32385	32221	1.03	cps
Dysprosium	156-1	43	40	57	47	18.90	cps
Dysprosium	156-2	73	43	40	52	35.15	cps
Erbium	164-1	113	100	73	96	21.32	cps
Erbium	164-2	70	50	53	58	18.55	cps
Gadolinium	160-1	93	77	67	79	17.07	cps
Gadolinium	160-2	557	480	510	516	7.49	cps
Holmium	165-1	11858272	11753445	11934581	11848766	0.77	cps
Holmium	165-2	8950307	8934237	8866830	8917125	0.50	cps
Indium	115-1	8568385	8550897	8495844	8538375	0.44	cps
Indium	115-2	3833320	3854318	3820428	3836022	0.45	cps
Iron	56-2	379614208	378553168	383223208	380463528	0.64	cps
Iron	57-2	9440515	9316969	9361545	9373010	0.67	cps
Iron	54-2	20635415	20585075	20432215	20550902	0.51	cps
Krypton	83-1	210	187	197	198	5.92	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	39230	38524	38187	38647	1.38	cps
Lead	207-1	30798	30193	29819	30270	1.63	cps
Lead	208-1	147960	144320	142522	144934	1.91	cps
Lithium	6-1	1238893	1203604	1182804	1208434	2.35	cps
Magnesium	24-2	34942404	35045065	34765664	34917711	0.40	cps
Manganese	55-2	27008	26837	26684	26843	0.60	cps
Molybdenum	94-1	5005510	5008644	5098263	5037472	1.05	cps
Molybdenum	95-1	8849108	8907932	8947350	8901464	0.56	cps
Molybdenum	96-1	9518615	9651733	9607421	9592590	0.71	cps
Molybdenum	97-1	5431223	5524230	5584248	5513234	1.40	cps
Molybdenum	98-1	14112073	14417482	14295230	14274928	1.08	cps
Neodymium	150-1	47	50	23	40	36.33	cps
Neodymium	150-2	30	30	53	38	35.66	cps
Nickel	60-2	10033	9950	10310	10098	1.87	cps
Phosphorus	31-2	1163297	1154754	1158879	1158977	0.37	cps
Potassium	39-2	51453979	51186539	51430604	51357041	0.29	cps
Rhodium	103-1	7600476	7524173	7502961	7542537	0.68	cps
Rhodium	103-2	4988921	5053749	5004132	5015601	0.68	cps
Scandium	45-1	4252296	4193185	4251763	4232415	0.80	cps
Scandium	45-2	495911	500407	500005	498775	0.50	cps
Selenium	82-1	353	421	391	388	8.75	cps
Selenium	77-2	3	7	0	3	100.05	cps
Selenium	78-2	503	530	553	529	4.73	cps
Silicon	28-1	654325	658077	668283	660228	1.09	cps
Silver	107-1	720	583	437	580	24.43	cps
Silver	109-1	637	473	503	538	16.17	cps
Sodium	23-2	59020832	58449792	59074172	58848266	0.59	cps
Strontium	86-1	95058	97147	96262	96156	1.09	cps
Strontium	88-1	834787	841851	855284	843974	1.23	cps
Sulfur	34-1	3035755	2999774	3027656	3021062	0.62	cps
Terbium	159-1	11824628	11889559	11856455	11856881	0.27	cps
Terbium	159-2	8800517	8771168	8683743	8751809	0.69	cps
Thallium	203-1	1860	1807	1730	1799	3.63	cps
Thallium	205-1	4274	4367	3994	4212	4.61	cps
Tin	118-1	4814	4711	4317	4614	5.68	cps
Titanium	47-1	1985716	2038421	2050705	2024947	1.71	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSA002	Instrumnet Name :	P7
Client Sample ID :	ICSA002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:01:48	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	547	590	497	544	8.58	cps
Vanadium	51-2	743	787	803	778	3.98	cps
Yttrium	89-1	14891844	14664790	14917455	14824696	0.94	cps
Yttrium	89-2	4994590	5093739	4942082	5010137	1.54	cps
Zinc	66-2	8583	8629	8933	8715	2.18	cps
Zirconium	90-1	910	710	820	813	12.32	cps
Zirconium	91-1	173	113	183	157	24.17	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	22382831	22110511	22125015	22206119	0.69	cps
Antimony	121-1	200075	200501	202069	200881	0.52	cps
Arsenic	75-2	11645	11398	11775	11606	1.65	cps
Barium	135-1	53105	53798	52771	53224	0.98	cps
Barium	137-1	91874	93779	92173	92609	1.11	cps
Beryllium	9-1	20560	20861	20787	20736	0.76	cps
Bismuth	209-1	7187028	7169796	7174271	7177032	0.12	cps
Bismuth	209-2	6032150	5985136	5903657	5973647	1.09	cps
Bromine	81-1	15598	15672	15792	15687	0.62	cps
Bromine	81-2	287	237	247	257	10.31	cps
Cadmium	108-1	4391	4607	4521	4506	2.42	cps
Cadmium	106-1	9000	8886	8879	8922	0.76	cps
Cadmium	111-1	51369	50299	50729	50799	1.06	cps
Calcium	43-1	2179340	2192321	2192389	2188017	0.34	cps
Calcium	44-1	35876923	35582233	35704128	35721094	0.41	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	166003	165476	166467	165982	0.30	cps
Cobalt	59-2	132434	132683	132092	132403	0.22	cps
Copper	63-2	112660	112687	113137	112828	0.24	cps
Dysprosium	156-1	47	33	33	38	20.39	cps
Dysprosium	156-2	90	50	50	63	36.46	cps
Erbium	164-1	93	73	80	82	12.39	cps
Erbium	164-2	80	100	57	79	27.49	cps
Gadolinium	160-1	83	67	97	82	18.28	cps
Gadolinium	160-2	453	473	487	471	3.56	cps
Holmium	165-1	12065449	12125231	12094291	12094990	0.25	cps
Holmium	165-2	9139431	9238788	9065600	9147940	0.95	cps
Indium	115-1	8747959	8703455	8698973	8716796	0.31	cps
Indium	115-2	3959025	3945947	3896171	3933714	0.84	cps
Iron	56-2	388981488	386178474	393303994	389487985	0.92	cps
Iron	57-2	9728764	9692468	9705747	9708993	0.19	cps
Iron	54-2	21125532	21246308	21066886	21146242	0.43	cps
Krypton	83-1	157	230	210	199	19.06	cps

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On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	193344	194843	194653	194280	0.42	cps
Lead	207-1	160583	161976	162526	161695	0.62	cps
Lead	208-1	743558	751512	755561	750210	0.81	cps
Lithium	6-1	1181358	1190281	1165453	1179030	1.07	cps
Magnesium	24-2	35998008	35498564	35279205	35591926	1.04	cps
Manganese	55-2	96856	95574	95963	96131	0.68	cps
Molybdenum	94-1	5296469	5276015	5273517	5282000	0.24	cps
Molybdenum	95-1	9285771	9279575	9268709	9278018	0.09	cps
Molybdenum	96-1	9890183	10021167	10029750	9980367	0.78	cps
Molybdenum	97-1	5794535	5858657	5788545	5813912	0.67	cps
Molybdenum	98-1	14895794	15033346	15136059	15021733	0.80	cps
Neodymium	150-1	53	67	47	56	18.33	cps
Neodymium	150-2	40	33	50	41	20.41	cps
Nickel	60-2	39806	40541	40324	40224	0.94	cps
Phosphorus	31-2	1191547	1162384	1179743	1177891	1.25	cps
Potassium	39-2	53649509	53140423	52441106	53077013	1.14	cps
Rhodium	103-1	7729029	7693728	7731309	7718022	0.27	cps
Rhodium	103-2	5156528	5116789	5125017	5132778	0.41	cps
Scandium	45-1	4302466	4249213	4245009	4265563	0.75	cps
Scandium	45-2	510238	499479	502834	504183	1.09	cps
Selenium	82-1	3239	3037	3209	3162	3.44	cps
Selenium	77-2	383	420	367	390	7.00	cps
Selenium	78-2	1840	1800	1893	1845	2.54	cps
Silicon	28-1	696773	699165	699314	698417	0.20	cps
Silver	107-1	219619	227064	225450	224044	1.75	cps
Silver	109-1	210221	212720	210394	211112	0.66	cps
Sodium	23-2	60931026	60263627	59914531	60369728	0.86	cps
Strontium	86-1	102007	101275	102278	101853	0.51	cps
Strontium	88-1	891739	891537	890315	891197	0.09	cps
Sulfur	34-1	3128013	3109384	3051416	3096271	1.29	cps
Terbium	159-1	11998465	12075451	12243392	12105769	1.03	cps
Terbium	159-2	9123331	8843929	8912146	8959802	1.63	cps
Thallium	203-1	190543	194823	194039	193135	1.18	cps
Thallium	205-1	455810	463111	465631	461517	1.11	cps
Tin	118-1	3140	3084	2960	3061	3.01	cps
Titanium	47-1	2069817	2141904	2089652	2100458	1.77	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	ICSAB002	Instrumnet Name :	P7
Client Sample ID :	ICSAB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:04:51	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	587	553	563	568	3.01	cps
Vanadium	51-2	75109	72955	73223	73762	1.59	cps
Yttrium	89-1	15450057	15447694	14996307	15298019	1.71	cps
Yttrium	89-2	5110204	5044850	5068275	5074443	0.65	cps
Zinc	66-2	24610	23696	23959	24088	1.95	cps
Zirconium	90-1	1090	807	690	862	23.87	cps
Zirconium	91-1	207	183	147	179	16.91	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	12248329	12192604	12143770	12194901	0.43	cps
Antimony	121-1	4884056	5020748	4971092	4958632	1.40	cps
Arsenic	75-2	289882	290221	287957	289353	0.42	cps
Barium	135-1	6472315	6516185	6448952	6479151	0.53	cps
Barium	137-1	11075046	11176697	11222483	11158075	0.68	cps
Beryllium	9-1	497453	506167	509663	504428	1.25	cps
Bismuth	209-1	7363556	7128401	6977972	7156643	2.72	cps
Bismuth	209-2	5745319	5677846	5623090	5682085	1.08	cps
Bromine	81-1	15248	15268	15478	15331	0.83	cps
Bromine	81-2	107	143	123	124	14.75	cps
Cadmium	108-1	88666	90476	91241	90127	1.47	cps
Cadmium	106-1	132548	131821	133341	132570	0.57	cps
Cadmium	111-1	1208908	1220121	1223328	1217452	0.62	cps
Calcium	43-1	5463229	5606630	5531053	5533638	1.30	cps
Calcium	44-1	90610872	92505552	91604015	91573480	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2132556	2118208	2115090	2121951	0.44	cps
Cobalt	59-2	3236155	3246456	3229161	3237257	0.27	cps
Copper	63-2	20402911	20391202	20146988	20313700	0.71	cps
Dysprosium	156-1	297	283	293	291	2.38	cps
Dysprosium	156-2	617	653	593	621	4.87	cps
Erbium	164-1	347	373	277	332	15.03	cps
Erbium	164-2	240	217	267	241	10.38	cps
Gadolinium	160-1	263	293	250	269	8.26	cps
Gadolinium	160-2	657	633	627	639	2.47	cps
Holmium	165-1	12508530	12033709	11933724	12158654	2.53	cps
Holmium	165-2	9001568	8903222	8874227	8926339	0.75	cps
Indium	115-1	8852822	8531134	8426061	8603339	2.58	cps
Indium	115-2	3793014	3714476	3794377	3767289	1.21	cps
Iron	56-2	485917713	486306473	479848073	484024086	0.75	cps
Iron	57-2	12093573	12169614	11925129	12062772	1.04	cps
Iron	54-2	26250474	26398570	25959324	26202789	0.85	cps
Krypton	83-1	280	167	220	222	25.52	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20444294	20521521	20512518	20492777	0.21	cps
Lead	207-1	17988311	18168661	18146602	18101191	0.54	cps
Lead	208-1	82193595	83322120	82744308	82753341	0.68	cps
Lithium	6-1	1174953	1166875	1186567	1176132	0.84	cps
Magnesium	24-2	98901365	97783365	98440642	98375124	0.57	cps
Manganese	55-2	17347426	17316394	17053023	17238948	0.94	cps
Molybdenum	94-1	16528229	16766234	16587665	16627376	0.74	cps
Molybdenum	95-1	23782513	24252791	23846844	23960716	1.06	cps
Molybdenum	96-1	26280258	26445839	26367979	26364692	0.31	cps
Molybdenum	97-1	14990704	14955616	14943044	14963121	0.17	cps
Molybdenum	98-1	38675612	38551879	38718914	38648801	0.22	cps
Neodymium	150-1	510	533	590	544	7.56	cps
Neodymium	150-2	247	227	210	228	8.06	cps
Nickel	60-2	761477	764549	755304	760444	0.62	cps
Phosphorus	31-2	116136	116073	114624	115611	0.74	cps
Potassium	39-2	67650622	67640914	67460521	67584019	0.16	cps
Rhodium	103-1	7820017	7526085	7469345	7605149	2.48	cps
Rhodium	103-2	4927320	4777223	4881405	4861983	1.58	cps
Scandium	45-1	4459661	4313215	4311155	4361344	1.95	cps
Scandium	45-2	500348	498995	497950	499098	0.24	cps
Selenium	82-1	70049	71265	71306	70873	1.01	cps
Selenium	77-2	9850	9830	9827	9836	0.13	cps
Selenium	78-2	33428	33531	32636	33198	1.48	cps
Silicon	28-1	29477532	29535112	29376129	29462924	0.27	cps
Silver	107-1	5869376	5935558	5853143	5886026	0.74	cps
Silver	109-1	5526204	5655896	5636363	5606154	1.25	cps
Sodium	23-2	154674424	155022374	153786221	154494340	0.41	cps
Strontium	86-1	1602785	1617982	1602948	1607905	0.54	cps
Strontium	88-1	14011788	14131159	14030844	14057930	0.46	cps
Sulfur	34-1	412536	416774	415559	414956	0.53	cps
Terbium	159-1	12644507	12262301	12034686	12313831	2.50	cps
Terbium	159-2	8690503	8763395	8663482	8705793	0.59	cps
Thallium	203-1	5287480	5284315	5215183	5262326	0.78	cps
Thallium	205-1	12618556	12629851	12651770	12633392	0.13	cps
Tin	118-1	4126906	4190506	4140930	4152780	0.80	cps
Titanium	47-1	5181124	5202235	5190943	5191434	0.20	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV011	Instrumnet Name :	P7
Client Sample ID :	CCV011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:07:57	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17451795	17796302	17405599	17551232	1.22	cps
Vanadium	51-2	1911697	1923544	1866812	1900684	1.57	cps
Yttrium	89-1	15587206	15080736	14901348	15189763	2.34	cps
Yttrium	89-2	5039062	4948570	4939653	4975762	1.11	cps
Zinc	66-2	3785121	3802617	3748029	3778589	0.74	cps
Zirconium	90-1	8149813	8319008	8210417	8226413	1.04	cps
Zirconium	91-1	1812686	1846166	1827274	1828709	0.92	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2570	2327	2260	2386	6.84	cps
Antimony	121-1	787	610	597	664	15.96	cps
Arsenic	75-2	27	27	17	23	24.74	cps
Barium	135-1	510	433	393	446	13.31	cps
Barium	137-1	843	757	610	737	16.01	cps
Beryllium	9-1	200	153	163	172	14.27	cps
Bismuth	209-1	7757111	7661043	7612259	7676804	0.96	cps
Bismuth	209-2	6355901	6306764	6362520	6341728	0.48	cps
Bromine	81-1	14737	14744	15031	14838	1.13	cps
Bromine	81-2	143	187	237	189	24.73	cps
Cadmium	108-1	30	23	17	23	28.56	cps
Cadmium	106-1	5474	4544	4994	5004	9.30	cps
Cadmium	111-1	3901	3238	3568	3569	9.29	cps
Calcium	43-1	1334	890	847	1023	26.33	cps
Calcium	44-1	26550	19580	18398	21509	20.48	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1247	1243	1283	1258	1.76	cps
Cobalt	59-2	253	273	220	249	10.83	cps
Copper	63-2	3110	3164	3157	3144	0.92	cps
Dysprosium	156-1	10	0	17	9	94.38	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	63	60	27	50	40.55	cps
Erbium	164-2	63	33	23	40	52.05	cps
Gadolinium	160-1	43	47	37	42	12.06	cps
Gadolinium	160-2	500	547	513	520	4.62	cps
Holmium	165-1	12070101	12196164	12095988	12120751	0.55	cps
Holmium	165-2	9196658	9171038	9154548	9174081	0.23	cps
Indium	115-1	9255509	9212184	9149980	9205891	0.58	cps
Indium	115-2	4112027	4055794	4032924	4066915	1.00	cps
Iron	56-2	76426	74527	69928	73627	4.54	cps
Iron	57-2	2677	2777	2434	2629	6.72	cps
Iron	54-2	6071	6235	5791	6032	3.72	cps
Krypton	83-1	237	207	200	214	9.11	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	6164	2660	2350	3725	56.86	cps
Lead	207-1	6395	2250	2350	3665	64.51	cps
Lead	208-1	29022	10632	9911	16522	65.56	cps
Lithium	6-1	1224617	1226964	1210028	1220536	0.75	cps
Magnesium	24-2	7949	7605	7002	7519	6.38	cps
Manganese	55-2	1087	1087	1047	1073	2.15	cps
Molybdenum	94-1	2277	2030	1647	1985	16.00	cps
Molybdenum	95-1	3067	2464	2330	2620	14.98	cps
Molybdenum	96-1	3407	2850	2407	2888	17.35	cps
Molybdenum	97-1	2060	1633	1393	1696	19.92	cps
Molybdenum	98-1	5028	3824	3764	4205	16.95	cps
Neodymium	150-1	3	3	7	4	43.40	cps
Neodymium	150-2	13	3	10	9	57.30	cps
Nickel	60-2	3014	2877	2724	2871	5.05	cps
Phosphorus	31-2	320	340	340	333	3.46	cps
Potassium	39-2	68825	67763	67257	67948	1.18	cps
Rhodium	103-1	8421232	8396037	8312558	8376609	0.68	cps
Rhodium	103-2	5566379	5527236	5478391	5524002	0.80	cps
Scandium	45-1	4449515	4413653	4442088	4435085	0.43	cps
Scandium	45-2	521434	515302	524506	520414	0.90	cps
Selenium	82-1	372	411	385	389	5.05	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	550	493	580	541	8.13	cps
Silicon	28-1	670819	668385	669246	669483	0.18	cps
Silver	107-1	780	793	653	742	10.41	cps
Silver	109-1	720	627	453	600	22.55	cps
Sodium	23-2	53165	51653	51840	52219	1.58	cps
Strontium	86-1	413	460	453	442	5.71	cps
Strontium	88-1	1363	1073	957	1131	18.51	cps
Sulfur	34-1	135985	135635	136009	135876	0.15	cps
Terbium	159-1	12395148	12178199	12315477	12296275	0.89	cps
Terbium	159-2	8918211	8899284	8846258	8887918	0.42	cps
Thallium	203-1	1057	1093	943	1031	7.58	cps
Thallium	205-1	3261	2290	2284	2612	21.54	cps
Tin	118-1	2403	1487	1657	1849	26.35	cps
Titanium	47-1	990	657	490	712	35.75	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB011	Instrumnet Name :	P7
Client Sample ID :	CCB011	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:14:13	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3255	910	820	1662	83.08	cps
Vanadium	51-2	63	120	110	98	30.94	cps
Yttrium	89-1	15401543	15769560	15460230	15543778	1.27	cps
Yttrium	89-2	5206875	5159306	5136793	5167658	0.69	cps
Zinc	66-2	773	853	750	792	6.84	cps
Zirconium	90-1	1243	1180	947	1123	13.91	cps
Zirconium	91-1	273	217	170	220	23.52	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1473	1340	1177	1330	11.17	cps
Antimony	121-1	357	317	293	322	9.94	cps
Arsenic	75-2	7	13	23	14	58.06	cps
Barium	135-1	203	233	163	200	17.56	cps
Barium	137-1	360	370	337	356	4.81	cps
Beryllium	9-1	113	100	120	111	9.16	cps
Bismuth	209-1	7705705	7675528	7663519	7681584	0.28	cps
Bismuth	209-2	6381729	6348659	6283163	6337850	0.79	cps
Bromine	81-1	15452	15532	15258	15414	0.91	cps
Bromine	81-2	140	133	130	134	3.79	cps
Cadmium	108-1	10	10	17	12	31.50	cps
Cadmium	106-1	5318	4921	5214	5151	4.00	cps
Cadmium	111-1	3749	3504	3698	3650	3.54	cps
Calcium	43-1	497	620	377	498	24.44	cps
Calcium	44-1	14915	14468	14288	14557	2.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1190	1207	1287	1228	4.21	cps
Cobalt	59-2	133	167	170	157	12.94	cps
Copper	63-2	2637	2707	2600	2648	2.05	cps
Dysprosium	156-1	7	7	17	10	57.72	cps
Dysprosium	156-2	13	7	3	8	65.47	cps
Erbium	164-1	40	67	57	54	24.75	cps
Erbium	164-2	63	47	53	54	15.40	cps
Gadolinium	160-1	57	53	43	51	13.58	cps
Gadolinium	160-2	477	480	520	492	4.90	cps
Holmium	165-1	12157333	12175366	12221632	12184777	0.27	cps
Holmium	165-2	9216103	9036396	8988071	9080190	1.32	cps
Indium	115-1	9203359	9334451	9283252	9273687	0.71	cps
Indium	115-2	4132531	4106467	4057273	4098757	0.93	cps
Iron	56-2	49126	47739	45465	47444	3.90	cps
Iron	57-2	1977	2037	2010	2008	1.50	cps
Iron	54-2	4451	4511	4361	4441	1.70	cps
Krypton	83-1	233	183	223	213	12.40	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1783	1783	1880	1816	3.07	cps
Lead	207-1	1470	1550	1403	1475	4.98	cps
Lead	208-1	6891	6991	7014	6965	0.94	cps
Lithium	6-1	1214695	1228938	1203545	1215726	1.05	cps
Magnesium	24-2	4041	4147	3704	3964	5.84	cps
Manganese	55-2	653	573	560	596	8.48	cps
Molybdenum	94-1	983	927	873	928	5.93	cps
Molybdenum	95-1	1270	1200	1050	1173	9.58	cps
Molybdenum	96-1	1400	1470	1133	1335	13.31	cps
Molybdenum	97-1	833	760	657	750	11.83	cps
Molybdenum	98-1	1967	1940	1730	1879	6.90	cps
Neodymium	150-1	17	10	13	13	25.01	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	2757	2844	2787	2796	1.57	cps
Phosphorus	31-2	350	323	363	346	5.89	cps
Potassium	39-2	65229	64235	64787	64750	0.77	cps
Rhodium	103-1	8540116	8481025	8471270	8497470	0.44	cps
Rhodium	103-2	5666333	5589503	5517358	5591065	1.33	cps
Scandium	45-1	4516236	4540564	4528498	4528432	0.27	cps
Scandium	45-2	523453	524593	522764	523603	0.18	cps
Selenium	82-1	338	431	389	386	12.08	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	603	623	710	646	8.78	cps
Silicon	28-1	682997	680582	682056	681879	0.18	cps
Silver	107-1	373	357	260	330	18.54	cps
Silver	109-1	257	277	257	263	4.38	cps
Sodium	23-2	41877	40891	40212	40993	2.04	cps
Strontium	86-1	423	407	347	392	10.28	cps
Strontium	88-1	590	483	510	528	10.52	cps
Sulfur	34-1	140260	141881	141239	141126	0.58	cps
Terbium	159-1	12489390	12454784	12364316	12436163	0.52	cps
Terbium	159-2	8938866	8878066	8862575	8893169	0.45	cps
Thallium	203-1	713	690	600	668	8.96	cps
Thallium	205-1	1733	1667	1557	1652	5.40	cps
Tin	118-1	1393	1333	1323	1350	2.80	cps
Titanium	47-1	340	350	280	323	11.71	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BL	Instrumnet Name :	P7
Client Sample ID :	PBS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:17:31	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	403	413	347	388	9.27	cps
Vanadium	51-2	67	30	50	49	37.55	cps
Yttrium	89-1	15834377	15700782	15688164	15741108	0.51	cps
Yttrium	89-2	5272328	5227138	5134608	5211358	1.35	cps
Zinc	66-2	713	620	693	676	7.27	cps
Zirconium	90-1	750	763	747	753	1.17	cps
Zirconium	91-1	150	140	113	134	14.10	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10640	10630	10717	10663	0.45	cps
Antimony	121-1	38505	39551	39364	39140	1.43	cps
Arsenic	75-2	1213	1307	1213	1245	4.33	cps
Barium	135-1	50422	50753	49512	50229	1.28	cps
Barium	137-1	85407	85414	85944	85589	0.36	cps
Beryllium	9-1	2217	2247	2300	2255	1.87	cps
Bismuth	209-1	7839256	7785249	7665809	7763438	1.14	cps
Bismuth	209-2	6395569	6381042	6388535	6388382	0.11	cps
Bromine	81-1	15632	15939	15862	15811	1.01	cps
Bromine	81-2	120	103	167	130	25.26	cps
Cadmium	108-1	410	403	440	418	4.68	cps
Cadmium	106-1	5788	5694	5414	5632	3.45	cps
Cadmium	111-1	8839	8625	8573	8679	1.62	cps
Calcium	43-1	24016	24456	23705	24059	1.57	cps
Calcium	44-1	404510	405099	406411	405340	0.24	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17891	18111	18475	18159	1.62	cps
Cobalt	59-2	13583	13343	13766	13564	1.57	cps
Copper	63-2	21272	21412	21319	21334	0.33	cps
Dysprosium	156-1	20	17	13	17	20.01	cps
Dysprosium	156-2	7	7	10	8	24.71	cps
Erbium	164-1	57	53	90	67	30.41	cps
Erbium	164-2	53	50	17	40	50.68	cps
Gadolinium	160-1	40	37	47	41	12.39	cps
Gadolinium	160-2	527	517	360	468	19.98	cps
Holmium	165-1	12254497	12141014	12167074	12187529	0.49	cps
Holmium	165-2	9070747	9184344	9123914	9126335	0.62	cps
Indium	115-1	9420089	9282533	9341927	9348183	0.74	cps
Indium	115-2	4133797	4143488	4114291	4130525	0.36	cps
Iron	56-2	1709720	1697169	1661731	1689540	1.47	cps
Iron	57-2	44298	44686	45144	44710	0.95	cps
Iron	54-2	97392	96808	96986	97062	0.31	cps
Krypton	83-1	197	223	233	218	8.70	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	17298	17525	17785	17536	1.39	cps
Lead	207-1	15008	14878	14958	14948	0.44	cps
Lead	208-1	68555	69166	69112	68944	0.49	cps
Lithium	6-1	1247345	1232030	1245362	1241579	0.67	cps
Magnesium	24-2	383067	380983	382853	382301	0.30	cps
Manganese	55-2	8272	7569	7956	7932	4.44	cps
Molybdenum	94-1	38751	39827	39236	39271	1.37	cps
Molybdenum	95-1	47644	48152	48470	48089	0.87	cps
Molybdenum	96-1	53357	54267	52942	53522	1.27	cps
Molybdenum	97-1	30662	31471	30853	30995	1.36	cps
Molybdenum	98-1	76418	77833	78265	77505	1.25	cps
Neodymium	150-1	7	27	20	18	57.27	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	6285	6225	6018	6176	2.27	cps
Phosphorus	31-2	913	920	907	913	0.73	cps
Potassium	39-2	652528	659428	653008	654988	0.59	cps
Rhodium	103-1	8633842	8459831	8581838	8558503	1.04	cps
Rhodium	103-2	5604153	5626331	5568397	5599627	0.52	cps
Scandium	45-1	4593607	4558670	4542218	4564832	0.57	cps
Scandium	45-2	529994	528819	531365	530059	0.24	cps
Selenium	82-1	1912	1892	1837	1880	2.06	cps
Selenium	77-2	180	190	223	198	11.47	cps
Selenium	78-2	1330	1350	1253	1311	3.89	cps
Silicon	28-1	773021	772903	773693	773205	0.06	cps
Silver	107-1	24133	24210	24684	24343	1.23	cps
Silver	109-1	22948	22851	23112	22970	0.57	cps
Sodium	23-2	663397	661919	660121	661812	0.25	cps
Strontium	86-1	6498	6535	6598	6544	0.77	cps
Strontium	88-1	52691	54450	53698	53613	1.65	cps
Sulfur	34-1	146393	146481	146138	146337	0.12	cps
Terbium	159-1	12373329	12389252	12383450	12382011	0.07	cps
Terbium	159-2	8954319	8885877	8878610	8906269	0.47	cps
Thallium	203-1	20098	20279	20072	20149	0.56	cps
Thallium	205-1	47031	47784	47466	47427	0.80	cps
Tin	118-1	81746	82022	82407	82058	0.40	cps
Titanium	47-1	2757	2677	2920	2785	4.45	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166384BS	Instrumnet Name :	P7
Client Sample ID :	LCS384	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:20:50	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	62780	61862	62486	62376	0.75	cps
Vanadium	51-2	39301	39455	39635	39464	0.42	cps
Yttrium	89-1	15876632	15747243	16021051	15881642	0.86	cps
Yttrium	89-2	5331536	5249472	5281228	5287412	0.78	cps
Zinc	66-2	8643	8993	8756	8797	2.03	cps
Zirconium	90-1	31911	32920	32616	32483	1.59	cps
Zirconium	91-1	7015	7439	7292	7249	2.97	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	387	327	347	353	8.65	cps
Antimony	121-1	150	133	153	146	7.36	cps
Arsenic	75-2	17	20	3	13	66.16	cps
Barium	135-1	90	83	53	76	25.85	cps
Barium	137-1	117	150	160	142	15.95	cps
Beryllium	9-1	103	90	70	88	19.12	cps
Bismuth	209-1	7054706	7504828	7556296	7371943	3.74	cps
Bismuth	209-2	6410013	6287930	6324454	6340799	0.99	cps
Bromine	81-1	16032	16015	16259	16102	0.85	cps
Bromine	81-2	197	130	137	154	23.77	cps
Cadmium	108-1	20	13	7	13	49.99	cps
Cadmium	106-1	4831	5324	5238	5131	5.14	cps
Cadmium	111-1	3384	3741	3678	3601	5.29	cps
Calcium	43-1	290	283	307	293	4.10	cps
Calcium	44-1	10491	10374	10441	10435	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1227	1223	1110	1187	5.60	cps
Cobalt	59-2	137	140	87	121	24.67	cps
Copper	63-2	2210	2194	2384	2262	4.65	cps
Dysprosium	156-1	7	7	7	7	0.00	cps
Dysprosium	156-2	10	13	0	8	89.21	cps
Erbium	164-1	40	30	60	43	35.25	cps
Erbium	164-2	43	37	43	41	9.35	cps
Gadolinium	160-1	23	53	37	38	39.79	cps
Gadolinium	160-2	513	500	527	513	2.60	cps
Holmium	165-1	11069350	12017105	12101097	11729184	4.89	cps
Holmium	165-2	9173573	9158837	8985269	9105893	1.15	cps
Indium	115-1	8451841	9253429	9276015	8993762	5.22	cps
Indium	115-2	4150332	4221413	4077577	4149774	1.73	cps
Iron	56-2	27281	26657	27125	27021	1.20	cps
Iron	57-2	1693	1503	1577	1591	6.02	cps
Iron	54-2	3160	3240	3324	3241	2.52	cps
Krypton	83-1	230	217	217	221	3.48	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1117	1043	1030	1063	4.39	cps
Lead	207-1	1053	1007	993	1018	3.10	cps
Lead	208-1	4587	4360	4257	4401	3.84	cps
Lithium	6-1	1135180	1228554	1166883	1176872	4.03	cps
Magnesium	24-2	1590	1467	1493	1517	4.28	cps
Manganese	55-2	360	330	337	342	4.60	cps
Molybdenum	94-1	367	397	347	370	6.80	cps
Molybdenum	95-1	217	277	257	250	12.22	cps
Molybdenum	96-1	283	270	363	306	16.52	cps
Molybdenum	97-1	137	103	140	127	16.01	cps
Molybdenum	98-1	350	370	317	346	7.80	cps
Neodymium	150-1	3	13	13	10	57.75	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	3010	2767	2967	2915	4.45	cps
Phosphorus	31-2	337	273	290	300	10.94	cps
Potassium	39-2	64027	63512	63800	63780	0.40	cps
Rhodium	103-1	7789173	8547608	8583540	8306774	5.40	cps
Rhodium	103-2	5643612	5592627	5591135	5609125	0.53	cps
Scandium	45-1	4157673	4583615	4619855	4453715	5.77	cps
Scandium	45-2	531279	526267	525491	527679	0.60	cps
Selenium	82-1	321	385	438	381	15.38	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	533	550	663	582	12.15	cps
Silicon	28-1	692243	696779	688322	692448	0.61	cps
Silver	107-1	260	197	227	228	13.91	cps
Silver	109-1	210	167	247	208	19.27	cps
Sodium	23-2	32451	32324	32123	32299	0.51	cps
Strontium	86-1	357	377	440	391	11.12	cps
Strontium	88-1	230	210	223	221	4.61	cps
Sulfur	34-1	147686	147544	147369	147533	0.11	cps
Terbium	159-1	11350302	12269605	12053557	11891155	4.04	cps
Terbium	159-2	8973115	8927412	8938340	8946289	0.27	cps
Thallium	203-1	550	580	503	544	7.10	cps
Thallium	205-1	1150	1143	1277	1190	6.31	cps
Tin	118-1	1343	1340	1190	1291	6.78	cps
Titanium	47-1	90	73	103	89	16.91	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BL	Instrumnet Name :	P7
Client Sample ID :	PBS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:24:05	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	87	67	53	69	24.36	cps
Vanadium	51-2	23	40	17	27	45.07	cps
Yttrium	89-1	14564549	15735668	15795301	15365173	4.52	cps
Yttrium	89-2	5252244	5189285	5207478	5216336	0.62	cps
Zinc	66-2	620	577	570	589	4.61	cps
Zirconium	90-1	667	627	623	639	3.77	cps
Zirconium	91-1	147	150	143	147	2.27	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10500	10414	10220	10378	1.38	cps
Antimony	121-1	37813	38588	39865	38755	2.67	cps
Arsenic	75-2	1307	1143	1277	1242	7.00	cps
Barium	135-1	49442	48984	49098	49174	0.49	cps
Barium	137-1	84864	87205	85914	85994	1.36	cps
Beryllium	9-1	2240	2207	2164	2204	1.75	cps
Bismuth	209-1	7687287	7612197	7537815	7612433	0.98	cps
Bismuth	209-2	6313508	6332551	6265015	6303691	0.55	cps
Bromine	81-1	15919	16536	16199	16218	1.91	cps
Bromine	81-2	137	137	127	133	4.33	cps
Cadmium	108-1	347	403	367	372	7.72	cps
Cadmium	106-1	5771	5765	5424	5653	3.51	cps
Cadmium	111-1	8681	8777	8471	8643	1.81	cps
Calcium	43-1	23645	24313	24119	24026	1.43	cps
Calcium	44-1	396050	402041	400781	399624	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18305	17734	18094	18044	1.60	cps
Cobalt	59-2	13449	13219	13696	13455	1.77	cps
Copper	63-2	20981	20441	21482	20968	2.48	cps
Dysprosium	156-1	7	13	20	13	49.99	cps
Dysprosium	156-2	10	13	13	12	15.73	cps
Erbium	164-1	60	73	63	66	10.58	cps
Erbium	164-2	30	40	47	39	21.57	cps
Gadolinium	160-1	53	73	23	50	50.34	cps
Gadolinium	160-2	523	480	443	482	8.30	cps
Holmium	165-1	12025951	12107349	12070729	12068010	0.34	cps
Holmium	165-2	9109845	9088190	8972458	9056831	0.82	cps
Indium	115-1	9181711	9232753	9198974	9204480	0.28	cps
Indium	115-2	4089310	4112955	4189415	4130560	1.27	cps
Iron	56-2	1681503	1667215	1685130	1677949	0.56	cps
Iron	57-2	44596	43733	43272	43867	1.53	cps
Iron	54-2	95688	96611	95423	95907	0.65	cps
Krypton	83-1	257	193	230	227	14.03	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	16520	16520	16814	16618	1.02	cps
Lead	207-1	14278	14478	14611	14456	1.16	cps
Lead	208-1	66294	66247	67797	66779	1.32	cps
Lithium	6-1	1217344	1199711	1206450	1207835	0.74	cps
Magnesium	24-2	382187	378462	379900	380183	0.49	cps
Manganese	55-2	7625	7809	7802	7745	1.34	cps
Molybdenum	94-1	38708	39209	39466	39128	0.99	cps
Molybdenum	95-1	47085	48222	47574	47627	1.20	cps
Molybdenum	96-1	52567	53106	53487	53053	0.87	cps
Molybdenum	97-1	29887	29740	29790	29806	0.25	cps
Molybdenum	98-1	77179	76887	77437	77168	0.36	cps
Neodymium	150-1	13	17	10	13	25.01	cps
Neodymium	150-2	3	0	17	7	132.33	cps
Nickel	60-2	6015	6201	6331	6182	2.58	cps
Phosphorus	31-2	923	890	883	899	2.38	cps
Potassium	39-2	655067	650042	654497	653202	0.42	cps
Rhodium	103-1	8636052	8512957	8521869	8556959	0.80	cps
Rhodium	103-2	5549045	5562379	5559203	5556876	0.13	cps
Scandium	45-1	4616170	4517931	4524013	4552705	1.21	cps
Scandium	45-2	529531	528507	532291	530109	0.37	cps
Selenium	82-1	1847	1829	1957	1878	3.68	cps
Selenium	77-2	207	260	187	218	17.41	cps
Selenium	78-2	1297	1237	1257	1263	2.42	cps
Silicon	28-1	780196	789643	782574	784138	0.63	cps
Silver	107-1	24017	25002	24851	24623	2.16	cps
Silver	109-1	22214	23152	23165	22844	2.39	cps
Sodium	23-2	652527	653050	652405	652661	0.05	cps
Strontium	86-1	6398	6425	6191	6338	2.02	cps
Strontium	88-1	52891	53330	53932	53384	0.98	cps
Sulfur	34-1	148799	149685	150513	149665	0.57	cps
Terbium	159-1	12305263	12246397	12235018	12262226	0.31	cps
Terbium	159-2	8875024	8877747	8943560	8898777	0.44	cps
Thallium	203-1	19351	19741	19387	19493	1.11	cps
Thallium	205-1	46345	46439	46325	46370	0.13	cps
Tin	118-1	80151	82099	81539	81263	1.23	cps
Titanium	47-1	2744	2694	2780	2739	1.59	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	PB166471BS	Instrumnet Name :	P7
Client Sample ID :	LCS471	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:27:25	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	59616	61169	60898	60561	1.37	cps
Vanadium	51-2	38960	39070	38653	38894	0.56	cps
Yttrium	89-1	15933020	15677356	15866068	15825481	0.84	cps
Yttrium	89-2	5319196	5270257	5302470	5297308	0.47	cps
Zinc	66-2	8769	9106	8726	8867	2.35	cps
Zirconium	90-1	31888	32466	32873	32409	1.53	cps
Zirconium	91-1	7002	7058	6945	7002	0.81	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8018510	8091802	7996912	8035741	0.62	cps
Antimony	121-1	6251	6135	6411	6266	2.22	cps
Arsenic	75-2	98115	99376	97306	98266	1.06	cps
Barium	135-1	557746	563922	568020	563229	0.92	cps
Barium	137-1	972028	979578	986242	979282	0.73	cps
Beryllium	9-1	4607	4804	4731	4714	2.11	cps
Bismuth	209-1	8121529	7918133	7936864	7992176	1.41	cps
Bismuth	209-2	6458733	6523833	6539006	6507191	0.66	cps
Bromine	81-1	51891	55126	55530	54182	3.68	cps
Bromine	81-2	10097	10094	10190	10127	0.54	cps
Cadmium	108-1	14331	14794	14341	14488	1.83	cps
Cadmium	106-1	20708	20147	19904	20253	2.04	cps
Cadmium	111-1	9242	8371	8392	8668	5.73	cps
Calcium	43-1	668309	672853	667175	669446	0.45	cps
Calcium	44-1	10562364	10609858	10537834	10570019	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4976944	4935668	4965577	4959396	0.43	cps
Cobalt	59-2	111423	111839	112860	112041	0.66	cps
Copper	63-2	8191719	8142775	8168807	8167767	0.30	cps
Dysprosium	156-1	29688	30269	29969	29975	0.97	cps
Dysprosium	156-2	29725	29735	30216	29892	0.94	cps
Erbium	164-1	25897	26886	26201	26328	1.92	cps
Erbium	164-2	19908	19944	20038	19963	0.34	cps
Gadolinium	160-1	27784	28382	28416	28194	1.26	cps
Gadolinium	160-2	22074	22829	22468	22457	1.68	cps
Holmium	165-1	13027311	12577576	12583048	12729312	2.03	cps
Holmium	165-2	9642752	9535942	9528659	9569117	0.67	cps
Indium	115-1	9537156	9349430	9278062	9388216	1.43	cps
Indium	115-2	4139722	4163357	4154507	4152528	0.29	cps
Iron	56-2	251896463	251965163	251360750	251740792	0.13	cps
Iron	57-2	6218581	6196132	6200809	6205174	0.19	cps
Iron	54-2	13738054	13777531	13826122	13780569	0.32	cps
Krypton	83-1	223	227	210	220	4.01	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4986956	4989567	5008221	4994915	0.23	cps
Lead	207-1	4105211	4158310	4106512	4123344	0.73	cps
Lead	208-1	19248691	19351151	19302319	19300721	0.27	cps
Lithium	6-1	1357732	1344639	1320983	1341118	1.39	cps
Magnesium	24-2	2147861	2148420	2130410	2142230	0.48	cps
Manganese	55-2	9674378	9739629	9728641	9714216	0.36	cps
Molybdenum	94-1	15328	14964	15368	15220	1.46	cps
Molybdenum	95-1	18625	18485	18392	18501	0.64	cps
Molybdenum	96-1	23082	23980	24067	23709	2.30	cps
Molybdenum	97-1	11671	11555	11221	11482	2.04	cps
Molybdenum	98-1	29573	30091	29396	29687	1.22	cps
Neodymium	150-1	48710	48055	49302	48689	1.28	cps
Neodymium	150-2	33089	33540	33042	33224	0.83	cps
Nickel	60-2	303524	303799	302472	303265	0.23	cps
Phosphorus	31-2	26069	26223	26323	26205	0.49	cps
Potassium	39-2	1063513	1074371	1066203	1068029	0.53	cps
Rhodium	103-1	9016726	8723988	8655931	8798882	2.18	cps
Rhodium	103-2	5841362	5748830	5707073	5765755	1.19	cps
Scandium	45-1	4823184	4731799	4674538	4743174	1.58	cps
Scandium	45-2	555202	550209	552167	552526	0.46	cps
Selenium	82-1	656	666	643	655	1.75	cps
Selenium	77-2	117	117	133	122	7.87	cps
Selenium	78-2	767	737	837	780	6.58	cps
Silicon	28-1	15464346	15798220	15568496	15610354	1.09	cps
Silver	107-1	33372	32847	33492	33237	1.03	cps
Silver	109-1	31838	30823	31190	31284	1.64	cps
Sodium	23-2	2873428	2861010	2839191	2857877	0.61	cps
Strontium	86-1	670394	680235	679254	676628	0.80	cps
Strontium	88-1	6031703	6097209	6040644	6056519	0.59	cps
Sulfur	34-1	301988	301243	294815	299348	1.32	cps
Terbium	159-1	13075965	12817086	12784264	12892438	1.24	cps
Terbium	159-2	9399973	9296098	9293113	9329728	0.65	cps
Thallium	203-1	4301	4147	4154	4201	2.06	cps
Thallium	205-1	10237	9724	9947	9969	2.58	cps
Tin	118-1	9385603	9543352	9497081	9475345	0.86	cps
Titanium	47-1	556403	556285	559475	557388	0.32	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:30:42	DataFile Name :	024SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77664	79284	78935	78628	1.08	cps
Vanadium	51-2	136272	134406	136054	135577	0.75	cps
Yttrium	89-1	17171222	16784800	16477311	16811111	2.07	cps
Yttrium	89-2	5669917	5651528	5610512	5643986	0.54	cps
Zinc	66-2	190124	192837	191380	191447	0.71	cps
Zirconium	90-1	12575	12382	12555	12504	0.85	cps
Zirconium	91-1	2997	2960	2850	2936	2.60	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8241423	8309989	8255640	8269017	0.44	cps
Antimony	121-1	6355	6625	6655	6545	2.53	cps
Arsenic	75-2	102470	102689	101849	102336	0.43	cps
Barium	135-1	575990	580930	586677	581199	0.92	cps
Barium	137-1	999853	1015733	1017189	1010925	0.95	cps
Beryllium	9-1	4807	4754	4864	4809	1.14	cps
Bismuth	209-1	7905272	7950579	7965377	7940409	0.39	cps
Bismuth	209-2	6482605	6372156	6394903	6416555	0.91	cps
Bromine	81-1	52590	55320	56715	54875	3.82	cps
Bromine	81-2	10494	10490	10440	10475	0.29	cps
Cadmium	108-1	15689	15151	15148	15329	2.03	cps
Cadmium	106-1	21269	20741	21019	21010	1.26	cps
Cadmium	111-1	9007	9021	9297	9108	1.80	cps
Calcium	43-1	676457	681664	683768	680630	0.55	cps
Calcium	44-1	10779951	10765025	10742710	10762562	0.17	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5225643	5209539	5187743	5207642	0.37	cps
Cobalt	59-2	116441	116269	115271	115994	0.54	cps
Copper	63-2	8535564	8538614	8521503	8531894	0.11	cps
Dysprosium	156-1	31071	32190	32614	31959	2.49	cps
Dysprosium	156-2	31328	31716	31502	31515	0.62	cps
Erbium	164-1	28355	27965	28172	28164	0.69	cps
Erbium	164-2	21003	20862	21079	20981	0.52	cps
Gadolinium	160-1	28703	29641	28873	29072	1.72	cps
Gadolinium	160-2	23443	23874	23997	23771	1.22	cps
Holmium	165-1	12887350	12800271	12756216	12814612	0.52	cps
Holmium	165-2	9423699	9341918	9325105	9363574	0.56	cps
Indium	115-1	9342564	9267465	9274777	9294935	0.45	cps
Indium	115-2	4164025	4095124	4114357	4124502	0.86	cps
Iron	56-2	264264329	262942643	261523096	262910023	0.52	cps
Iron	57-2	6499040	6416512	6440479	6452010	0.66	cps
Iron	54-2	14402116	14461310	14331254	14398227	0.45	cps
Krypton	83-1	350	247	263	287	19.35	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5178341	5371439	5394062	5314614	2.23	cps
Lead	207-1	4286568	4450820	4424123	4387171	2.01	cps
Lead	208-1	20091373	20662919	20714180	20489491	1.69	cps
Lithium	6-1	1297187	1322375	1328965	1316176	1.27	cps
Magnesium	24-2	2248048	2274659	2228554	2250420	1.03	cps
Manganese	55-2	9942626	9891614	9830774	9888338	0.57	cps
Molybdenum	94-1	15525	15935	16276	15912	2.36	cps
Molybdenum	95-1	18432	19350	19493	19091	3.02	cps
Molybdenum	96-1	24390	25215	25108	24905	1.80	cps
Molybdenum	97-1	12002	11898	12028	11976	0.57	cps
Molybdenum	98-1	30852	31197	31307	31119	0.76	cps
Neodymium	150-1	51681	52440	51851	51991	0.77	cps
Neodymium	150-2	35057	34429	34790	34758	0.91	cps
Nickel	60-2	314813	313388	314401	314201	0.23	cps
Phosphorus	31-2	26860	27054	26737	26884	0.59	cps
Potassium	39-2	1109408	1121514	1115419	1115447	0.54	cps
Rhodium	103-1	8813783	8742042	8609331	8721719	1.19	cps
Rhodium	103-2	5754076	5672597	5717565	5714746	0.71	cps
Scandium	45-1	4782572	4728141	4675561	4728758	1.13	cps
Scandium	45-2	545940	543525	545519	544995	0.24	cps
Selenium	82-1	513	637	580	577	10.79	cps
Selenium	77-2	123	110	133	122	9.58	cps
Selenium	78-2	667	807	690	721	10.40	cps
Silicon	28-1	16170916	16207886	16344045	16240949	0.56	cps
Silver	107-1	34361	35163	35163	34895	1.33	cps
Silver	109-1	31781	32383	32623	32263	1.34	cps
Sodium	23-2	2909350	2886297	2897396	2897681	0.40	cps
Strontium	86-1	687512	702335	700127	696658	1.15	cps
Strontium	88-1	6187207	6239243	6174039	6200163	0.56	cps
Sulfur	34-1	293594	292001	289509	291701	0.71	cps
Terbium	159-1	12913863	12910784	12905375	12910007	0.03	cps
Terbium	159-2	9279894	9300361	9238697	9272984	0.34	cps
Thallium	203-1	3857	3847	3887	3864	0.54	cps
Thallium	205-1	8303	8840	8813	8652	3.50	cps
Tin	118-1	9980277	9838251	10025014	9947847	0.98	cps
Titanium	47-1	578291	586498	585015	583268	0.75	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:33:46	DataFile Name :	025SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	81785	83556	84291	83211	1.55	cps
Vanadium	51-2	141616	142178	142707	142167	0.38	cps
Yttrium	89-1	16977620	16703860	16693085	16791522	0.96	cps
Yttrium	89-2	5559031	5556651	5608067	5574583	0.52	cps
Zinc	66-2	198501	199970	197086	198519	0.73	cps
Zirconium	90-1	12439	12956	13216	12870	3.07	cps
Zirconium	91-1	3067	2990	3160	3073	2.77	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1634016	1617427	1622312	1624585	0.52	cps
Antimony	121-1	1427	1503	1557	1496	4.37	cps
Arsenic	75-2	19439	19056	18976	19157	1.29	cps
Barium	135-1	110585	112701	111142	111476	0.98	cps
Barium	137-1	192916	196595	193504	194338	1.02	cps
Beryllium	9-1	1057	963	993	1004	4.74	cps
Bismuth	209-1	7447033	7709680	7700440	7619051	1.96	cps
Bismuth	209-2	6375589	6247221	6272549	6298453	1.08	cps
Bromine	81-1	24297	24137	24484	24306	0.71	cps
Bromine	81-2	2147	2107	2307	2187	4.84	cps
Cadmium	108-1	2884	2964	3080	2976	3.32	cps
Cadmium	106-1	8116	8016	7929	8020	1.17	cps
Cadmium	111-1	4676	4473	4394	4514	3.22	cps
Calcium	43-1	130999	134304	132940	132748	1.25	cps
Calcium	44-1	2108207	2087986	2091322	2095838	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	969260	967956	968381	968532	0.07	cps
Cobalt	59-2	22440	22487	22016	22314	1.16	cps
Copper	63-2	1643887	1653758	1655016	1650887	0.37	cps
Dysprosium	156-1	5845	6288	6068	6067	3.66	cps
Dysprosium	156-2	5731	5975	5858	5855	2.08	cps
Erbium	164-1	5158	5611	5451	5407	4.25	cps
Erbium	164-2	4251	3847	3921	4006	5.36	cps
Gadolinium	160-1	5648	5805	5394	5616	3.69	cps
Gadolinium	160-2	4644	4728	4754	4709	1.22	cps
Holmium	165-1	11913822	12299257	12508854	12240645	2.47	cps
Holmium	165-2	9140365	9061997	9144292	9115551	0.51	cps
Indium	115-1	9043817	9221302	9117590	9127570	0.98	cps
Indium	115-2	4096179	4084460	4055583	4078741	0.51	cps
Iron	56-2	49020971	49096991	49241231	49119731	0.23	cps
Iron	57-2	1252419	1241818	1247185	1247141	0.43	cps
Iron	54-2	2702985	2731814	2683284	2706028	0.90	cps
Krypton	83-1	247	247	200	231	11.66	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	926260	939928	935944	934044	0.75	cps
Lead	207-1	749817	757511	753019	753449	0.51	cps
Lead	208-1	3696281	3706144	3727824	3710083	0.43	cps
Lithium	6-1	1191507	1213398	1208028	1204311	0.95	cps
Magnesium	24-2	430323	430216	424702	428414	0.75	cps
Manganese	55-2	1907324	1907308	1900569	1905067	0.20	cps
Molybdenum	94-1	3227	3410	4499	3712	18.53	cps
Molybdenum	95-1	3904	3881	6398	4728	30.61	cps
Molybdenum	96-1	5074	4868	6892	5611	19.85	cps
Molybdenum	97-1	2314	2274	3174	2587	19.67	cps
Molybdenum	98-1	6098	5938	8180	6739	18.56	cps
Neodymium	150-1	9613	9380	9827	9607	2.33	cps
Neodymium	150-2	6458	6438	6612	6503	1.46	cps
Nickel	60-2	63135	63319	63912	63456	0.64	cps
Phosphorus	31-2	5328	5584	5154	5355	4.04	cps
Potassium	39-2	261221	263721	263439	262794	0.52	cps
Rhodium	103-1	8369211	8509834	8609349	8496131	1.42	cps
Rhodium	103-2	5684089	5526938	5580170	5597065	1.43	cps
Scandium	45-1	4512298	4595443	4467607	4525116	1.43	cps
Scandium	45-2	532517	534053	527801	531457	0.61	cps
Selenium	82-1	452	403	442	432	6.03	cps
Selenium	77-2	37	20	23	27	33.08	cps
Selenium	78-2	630	697	620	649	6.42	cps
Silicon	28-1	3787035	3853095	3813432	3817854	0.87	cps
Silver	107-1	6622	7015	6772	6803	2.92	cps
Silver	109-1	6038	6351	6461	6284	3.50	cps
Sodium	23-2	591956	590817	592230	591667	0.13	cps
Strontium	86-1	133872	135106	133778	134252	0.55	cps
Strontium	88-1	1166039	1183342	1186782	1178721	0.94	cps
Sulfur	34-1	151586	155020	152633	153080	1.15	cps
Terbium	159-1	12044544	12410358	12458051	12304318	1.84	cps
Terbium	159-2	8943785	8924013	9010632	8959477	0.51	cps
Thallium	203-1	983	1013	1000	999	1.50	cps
Thallium	205-1	2380	2027	2377	2261	8.98	cps
Tin	118-1	1865562	1871110	1881853	1872842	0.44	cps
Titanium	47-1	109344	111443	108529	109772	1.37	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LX5	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:36:46	DataFile Name :	026SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	15736	15833	15185	15585	2.24	cps
Vanadium	51-2	26260	26553	26139	26317	0.81	cps
Yttrium	89-1	15615539	16010292	15893244	15839691	1.28	cps
Yttrium	89-2	5341301	5307214	5289526	5312680	0.50	cps
Zinc	66-2	38904	39435	38777	39039	0.89	cps
Zirconium	90-1	3200	3317	3868	3462	10.30	cps
Zirconium	91-1	733	737	813	761	5.95	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7988319	7970043	8044371	8000911	0.48	cps
Antimony	121-1	141949	142723	142979	142550	0.38	cps
Arsenic	75-2	111098	110229	111743	111023	0.68	cps
Barium	135-1	1660034	1661702	1642913	1654883	0.63	cps
Barium	137-1	2849445	2882094	2847731	2859757	0.68	cps
Beryllium	9-1	15074	15021	15054	15050	0.18	cps
Bismuth	209-1	7902337	7901296	7896447	7900027	0.04	cps
Bismuth	209-2	6361542	6318273	6371386	6350400	0.44	cps
Bromine	81-1	52085	53148	53527	52920	1.41	cps
Bromine	81-2	9960	9803	9456	9740	2.65	cps
Cadmium	108-1	17210	17874	17404	17496	1.95	cps
Cadmium	106-1	22918	23366	23172	23152	0.97	cps
Cadmium	111-1	32804	33347	33057	33069	0.82	cps
Calcium	43-1	644938	647068	645126	645711	0.18	cps
Calcium	44-1	10240239	10139361	10142549	10174050	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4752765	4735797	4638760	4709107	1.31	cps
Cobalt	59-2	764120	759024	762796	761980	0.35	cps
Copper	63-2	8768419	8785477	8745193	8766363	0.23	cps
Dysprosium	156-1	34091	34021	33146	33753	1.56	cps
Dysprosium	156-2	32835	32608	32888	32777	0.45	cps
Erbium	164-1	29972	29591	29444	29669	0.92	cps
Erbium	164-2	21997	22161	22255	22138	0.59	cps
Gadolinium	160-1	31479	31171	31048	31233	0.71	cps
Gadolinium	160-2	25039	24939	25236	25071	0.60	cps
Holmium	165-1	12644316	12541414	12330806	12505512	1.28	cps
Holmium	165-2	9309149	9238197	9348762	9298703	0.60	cps
Indium	115-1	9178252	9076316	9194632	9149733	0.70	cps
Indium	115-2	4044828	4063170	4015584	4041194	0.59	cps
Iron	56-2	262551536	261046043	259669509	261089029	0.55	cps
Iron	57-2	6481743	6459969	6379711	6440474	0.83	cps
Iron	54-2	14393947	14285250	14211087	14296761	0.64	cps
Krypton	83-1	227	263	280	257	10.63	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5531115	5578637	5580831	5563527	0.50	cps
Lead	207-1	4585710	4579707	4547554	4570990	0.45	cps
Lead	208-1	21383014	21446342	21325431	21384929	0.28	cps
Lithium	6-1	1273080	1286601	1283012	1280898	0.55	cps
Magnesium	24-2	2263039	2247319	2243324	2251227	0.46	cps
Manganese	55-2	9278848	9169704	9167027	9205193	0.69	cps
Molybdenum	94-1	16272	16446	16296	16338	0.58	cps
Molybdenum	95-1	19780	19640	19436	19619	0.88	cps
Molybdenum	96-1	25439	24871	25048	25119	1.16	cps
Molybdenum	97-1	12359	12439	12622	12473	1.08	cps
Molybdenum	98-1	31447	30836	31537	31274	1.22	cps
Neodymium	150-1	54903	55090	54511	54835	0.54	cps
Neodymium	150-2	36684	36774	37022	36827	0.47	cps
Nickel	60-2	461361	457628	461118	460036	0.45	cps
Phosphorus	31-2	25421	25962	25982	25788	1.23	cps
Potassium	39-2	1096148	1103980	1096293	1098807	0.41	cps
Rhodium	103-1	8523957	8518887	8454883	8499242	0.45	cps
Rhodium	103-2	5634735	5581205	5590644	5602194	0.51	cps
Scandium	45-1	4622125	4643413	4651008	4638849	0.32	cps
Scandium	45-2	536814	537464	533032	535770	0.45	cps
Selenium	82-1	1161	1059	1131	1117	4.70	cps
Selenium	77-2	170	183	183	179	4.31	cps
Selenium	78-2	927	1043	900	957	7.97	cps
Silicon	28-1	14881858	14651228	14534253	14689113	1.20	cps
Silver	107-1	152191	153754	151562	152502	0.74	cps
Silver	109-1	144124	146245	146400	145590	0.87	cps
Sodium	23-2	2708349	2712598	2710608	2710518	0.08	cps
Strontium	86-1	660565	665105	665259	663643	0.40	cps
Strontium	88-1	5959419	5982720	5945949	5962696	0.31	cps
Sulfur	34-1	272384	270640	269921	270982	0.47	cps
Terbium	159-1	12710207	12677629	12509125	12632321	0.85	cps
Terbium	159-2	9138803	9116403	9135573	9130260	0.13	cps
Thallium	203-1	93948	93639	95002	94196	0.76	cps
Thallium	205-1	223120	226140	225831	225030	0.74	cps
Tin	118-1	9941858	10064510	10055563	10020644	0.68	cps
Titanium	47-1	627622	630338	624737	627566	0.45	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:39:56	DataFile Name :	027SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	83486	85907	86189	85194	1.74	cps
Vanadium	51-2	528260	529800	522091	526717	0.77	cps
Yttrium	89-1	16509524	16634511	16578514	16574183	0.38	cps
Yttrium	89-2	5558297	5409330	5440401	5469343	1.44	cps
Zinc	66-2	266662	267041	269390	267698	0.55	cps
Zirconium	90-1	13493	12922	13486	13301	2.46	cps
Zirconium	91-1	3267	2994	3054	3105	4.63	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3032266	3012873	3073814	3039651	1.02	cps
Antimony	121-1	703	570	547	607	13.93	cps
Arsenic	75-2	3861	3884	3861	3868	0.35	cps
Barium	135-1	120057	122370	124182	122203	1.69	cps
Barium	137-1	209547	213670	214398	212538	1.23	cps
Beryllium	9-1	733	740	663	712	5.96	cps
Bismuth	209-1	7543809	7520874	7423037	7495907	0.86	cps
Bismuth	209-2	6220270	6183495	6239979	6214581	0.46	cps
Bromine	81-1	17477	18118	17998	17864	1.91	cps
Bromine	81-2	680	827	757	754	9.72	cps
Cadmium	108-1	80	70	47	66	26.09	cps
Cadmium	106-1	5074	5168	4928	5056	2.39	cps
Cadmium	111-1	3793	3782	3660	3745	1.97	cps
Calcium	43-1	37229	38522	37817	37856	1.71	cps
Calcium	44-1	615969	626386	624249	622201	0.88	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	136498	136259	135656	136138	0.32	cps
Cobalt	59-2	32983	32622	33481	33029	1.31	cps
Copper	63-2	51920	51712	50833	51488	1.12	cps
Dysprosium	156-1	22785	23964	23513	23421	2.54	cps
Dysprosium	156-2	22698	22692	22127	22506	1.46	cps
Erbium	164-1	19026	19046	19247	19106	0.64	cps
Erbium	164-2	14554	14648	14458	14553	0.65	cps
Gadolinium	160-1	20922	21159	21370	21150	1.06	cps
Gadolinium	160-2	17044	16897	17137	17026	0.71	cps
Holmium	165-1	12098905	12016114	12008317	12041112	0.42	cps
Holmium	165-2	9077190	8901105	8995086	8991127	0.98	cps
Indium	115-1	9293221	9146950	9183192	9207788	0.83	cps
Indium	115-2	4083369	4080368	4056704	4073480	0.36	cps
Iron	56-2	48602291	48290001	47886336	48259543	0.74	cps
Iron	57-2	1231896	1213998	1213859	1219918	0.85	cps
Iron	54-2	2679009	2682280	2627194	2662828	1.16	cps
Krypton	83-1	220	243	247	237	6.14	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1368938	1397611	1394059	1386869	1.13	cps
Lead	207-1	1206355	1236374	1237257	1226662	1.43	cps
Lead	208-1	5727882	5909757	5848368	5828669	1.59	cps
Lithium	6-1	1143918	1159630	1173804	1159117	1.29	cps
Magnesium	24-2	1514697	1518197	1562257	1531717	1.73	cps
Manganese	55-2	534538	528732	530206	531158	0.57	cps
Molybdenum	94-1	8233	8046	8443	8240	2.41	cps
Molybdenum	95-1	2377	2524	2630	2510	5.07	cps
Molybdenum	96-1	4467	4511	4711	4563	2.85	cps
Molybdenum	97-1	1593	1607	1690	1630	3.21	cps
Molybdenum	98-1	4131	4141	4077	4116	0.83	cps
Neodymium	150-1	38573	39692	39485	39250	1.52	cps
Neodymium	150-2	25764	26091	25520	25791	1.11	cps
Nickel	60-2	30635	30635	31346	30872	1.33	cps
Phosphorus	31-2	5051	4787	4891	4910	2.70	cps
Potassium	39-2	694857	691257	690920	692345	0.32	cps
Rhodium	103-1	8458795	8328401	8425144	8404113	0.81	cps
Rhodium	103-2	5536360	5570485	5474584	5527143	0.88	cps
Scandium	45-1	4551369	4545217	4509621	4535402	0.50	cps
Scandium	45-2	534843	527086	530037	530655	0.74	cps
Selenium	82-1	475	454	425	451	5.58	cps
Selenium	77-2	63	70	77	70	9.53	cps
Selenium	78-2	683	657	627	656	4.32	cps
Silicon	28-1	3707656	3354718	3302136	3454837	6.38	cps
Silver	107-1	997	937	820	918	9.79	cps
Silver	109-1	897	773	893	854	8.22	cps
Sodium	23-2	148910	146839	145979	147242	1.02	cps
Strontium	86-1	26554	27499	27255	27103	1.81	cps
Strontium	88-1	232969	235005	235296	234423	0.54	cps
Sulfur	34-1	131688	129832	129164	130228	1.00	cps
Terbium	159-1	12199829	12155216	12174894	12176646	0.18	cps
Terbium	159-2	8832269	8774849	8734009	8780375	0.56	cps
Thallium	203-1	2257	2154	2267	2226	2.82	cps
Thallium	205-1	5314	5591	5244	5383	3.41	cps
Tin	118-1	11748	9230	8179	9719	18.87	cps
Titanium	47-1	495379	507316	505844	502846	1.29	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09	Instrumnet Name :	P7
Client Sample ID :	A6342	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:42:57	DataFile Name :	028SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	67714	68963	69058	68578	1.09	cps
Vanadium	51-2	106415	103945	105546	105302	1.19	cps
Yttrium	89-1	15939394	15917761	15871611	15909589	0.22	cps
Yttrium	89-2	5298378	5222900	5362689	5294656	1.32	cps
Zinc	66-2	36939	38022	37517	37493	1.44	cps
Zirconium	90-1	18348	18382	18241	18324	0.40	cps
Zirconium	91-1	3874	4021	3907	3934	1.96	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3065003	3121259	3038012	3074758	1.38	cps
Antimony	121-1	450	507	513	490	7.10	cps
Arsenic	75-2	4191	4187	3984	4121	2.87	cps
Barium	135-1	125067	124196	125023	124762	0.39	cps
Barium	137-1	215233	214293	214601	214709	0.22	cps
Beryllium	9-1	643	727	730	700	7.01	cps
Bismuth	209-1	7491446	7463183	7511675	7488768	0.33	cps
Bismuth	209-2	6241373	6287263	6184369	6237669	0.83	cps
Bromine	81-1	16703	17180	17133	17005	1.55	cps
Bromine	81-2	630	733	683	682	7.57	cps
Cadmium	108-1	50	60	53	54	9.35	cps
Cadmium	106-1	5151	4758	5061	4990	4.13	cps
Cadmium	111-1	3877	3572	3795	3748	4.22	cps
Calcium	43-1	38753	38262	38094	38370	0.89	cps
Calcium	44-1	628333	632448	630393	630391	0.33	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	139925	136212	134227	136788	2.11	cps
Cobalt	59-2	33140	33243	32846	33076	0.62	cps
Copper	63-2	51135	49789	49147	50024	2.03	cps
Dysprosium	156-1	23046	23223	23026	23098	0.47	cps
Dysprosium	156-2	24238	23032	23309	23526	2.68	cps
Erbium	164-1	19734	19554	19410	19566	0.83	cps
Erbium	164-2	14634	14881	14885	14800	0.97	cps
Gadolinium	160-1	20949	21543	21573	21355	1.65	cps
Gadolinium	160-2	17184	17691	17264	17380	1.57	cps
Holmium	165-1	12021318	12124296	11935153	12026923	0.79	cps
Holmium	165-2	9100352	9095548	8979626	9058509	0.75	cps
Indium	115-1	9136912	9053401	9113448	9101254	0.47	cps
Indium	115-2	4112241	4039250	4041292	4064261	1.02	cps
Iron	56-2	48778524	48293331	47829138	48300331	0.98	cps
Iron	57-2	1227440	1229245	1223357	1226681	0.25	cps
Iron	54-2	2616286	2628730	2666991	2637336	1.00	cps
Krypton	83-1	260	213	237	237	9.86	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1452817	1469889	1465707	1462804	0.61	cps
Lead	207-1	1273054	1281409	1296077	1283513	0.91	cps
Lead	208-1	6075631	6076222	6189752	6113868	1.07	cps
Lithium	6-1	1162416	1136273	1167753	1155481	1.46	cps
Magnesium	24-2	1538813	1572022	1550847	1553894	1.08	cps
Manganese	55-2	542084	536020	536038	538048	0.65	cps
Molybdenum	94-1	8242	8556	8242	8347	2.17	cps
Molybdenum	95-1	2764	2757	2887	2803	2.61	cps
Molybdenum	96-1	4754	4664	4787	4735	1.35	cps
Molybdenum	97-1	1690	1733	1757	1727	1.96	cps
Molybdenum	98-1	4427	4581	4647	4552	2.48	cps
Neodymium	150-1	39933	40140	39091	39721	1.40	cps
Neodymium	150-2	27303	26889	26942	27045	0.83	cps
Nickel	60-2	31142	31069	30681	30964	0.80	cps
Phosphorus	31-2	5154	5061	5078	5098	0.98	cps
Potassium	39-2	704104	699852	690456	698137	1.00	cps
Rhodium	103-1	8448917	8468901	8313418	8410412	1.01	cps
Rhodium	103-2	5586275	5587311	5507095	5560227	0.83	cps
Scandium	45-1	4527853	4486624	4499881	4504786	0.47	cps
Scandium	45-2	530202	530966	521504	527557	1.00	cps
Selenium	82-1	433	513	439	461	9.66	cps
Selenium	77-2	47	60	80	62	26.96	cps
Selenium	78-2	720	700	607	676	8.95	cps
Silicon	28-1	3659914	3690658	3707256	3685942	0.65	cps
Silver	107-1	803	720	743	756	5.69	cps
Silver	109-1	640	717	637	664	6.81	cps
Sodium	23-2	148023	143081	143726	144943	1.85	cps
Strontium	86-1	27292	28073	27282	27549	1.65	cps
Strontium	88-1	239476	241800	239811	240362	0.52	cps
Sulfur	34-1	124616	124364	124929	124636	0.23	cps
Terbium	159-1	12038235	12273698	12174086	12162006	0.97	cps
Terbium	159-2	8901105	9046327	8790959	8912797	1.44	cps
Thallium	203-1	2214	2420	2327	2320	4.46	cps
Thallium	205-1	5178	5164	5314	5219	1.59	cps
Tin	118-1	4047	3754	3727	3843	4.62	cps
Titanium	47-1	514732	516035	516553	515773	0.18	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-10	Instrumnet Name :	P7
Client Sample ID :	A6342D	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:46:09	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	69215	69494	71142	69950	1.49	cps
Vanadium	51-2	106718	106811	106513	106680	0.14	cps
Yttrium	89-1	15846343	16108609	15762632	15905861	1.13	cps
Yttrium	89-2	5299014	5361125	5316913	5325684	0.60	cps
Zinc	66-2	37400	38098	38028	37842	1.02	cps
Zirconium	90-1	17791	18105	17918	17938	0.88	cps
Zirconium	91-1	3957	4134	4144	4078	2.58	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	626287	633186	622579	627351	0.86	cps
Antimony	121-1	200	137	197	178	20.05	cps
Arsenic	75-2	833	827	753	804	5.52	cps
Barium	135-1	25319	25957	26057	25778	1.55	cps
Barium	137-1	44061	45078	45198	44779	1.39	cps
Beryllium	9-1	187	203	237	209	12.19	cps
Bismuth	209-1	7781107	7571842	7604871	7652607	1.47	cps
Bismuth	209-2	6336005	6441210	6230884	6336033	1.66	cps
Bromine	81-1	15141	15388	15598	15376	1.49	cps
Bromine	81-2	237	333	227	266	22.18	cps
Cadmium	108-1	3	13	13	10	57.75	cps
Cadmium	106-1	5134	4908	4547	4863	6.09	cps
Cadmium	111-1	3665	3466	3221	3450	6.45	cps
Calcium	43-1	8116	8046	8216	8126	1.05	cps
Calcium	44-1	135583	138560	138886	137676	1.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29599	29402	29055	29352	0.94	cps
Cobalt	59-2	7035	7158	7402	7198	2.59	cps
Copper	63-2	12205	12148	11735	12029	2.13	cps
Dysprosium	156-1	4778	5051	4918	4915	2.78	cps
Dysprosium	156-2	4701	4854	4828	4794	1.71	cps
Erbium	164-1	3867	4024	4214	4035	4.30	cps
Erbium	164-2	3147	3097	3014	3086	2.18	cps
Gadolinium	160-1	4507	4467	4624	4533	1.80	cps
Gadolinium	160-2	3971	3994	4047	4004	0.98	cps
Holmium	165-1	12380484	12029420	12139032	12182979	1.47	cps
Holmium	165-2	9099799	9227026	8980045	9102290	1.36	cps
Indium	115-1	9390883	9133462	9245140	9256495	1.39	cps
Indium	115-2	4109611	4171245	4088197	4123018	1.05	cps
Iron	56-2	10103940	10147627	10082703	10111424	0.33	cps
Iron	57-2	261203	257840	256555	258533	0.93	cps
Iron	54-2	565837	565766	568060	566554	0.23	cps
Krypton	83-1	243	230	227	233	3.78	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	294058	296185	291753	293999	0.75	cps
Lead	207-1	260513	261952	263223	261896	0.52	cps
Lead	208-1	1181781	1187259	1178733	1182591	0.37	cps
Lithium	6-1	1199516	1158152	1183168	1180279	1.77	cps
Magnesium	24-2	320353	318917	317768	319013	0.41	cps
Manganese	55-2	111845	112121	110892	111619	0.58	cps
Molybdenum	94-1	1897	1727	1910	1845	5.54	cps
Molybdenum	95-1	607	707	680	664	7.79	cps
Molybdenum	96-1	1117	980	1067	1054	6.56	cps
Molybdenum	97-1	437	450	450	446	1.73	cps
Molybdenum	98-1	1037	1083	1113	1078	3.59	cps
Neodymium	150-1	8102	8119	8319	8180	1.47	cps
Neodymium	150-2	5341	5628	5204	5391	4.01	cps
Nickel	60-2	8613	8853	8633	8699	1.53	cps
Phosphorus	31-2	1300	1390	1273	1321	4.63	cps
Potassium	39-2	196198	194593	191627	194140	1.19	cps
Rhodium	103-1	8713619	8463725	8545099	8574148	1.49	cps
Rhodium	103-2	5641349	5657736	5589662	5629582	0.63	cps
Scandium	45-1	4590117	4560940	4513979	4555012	0.84	cps
Scandium	45-2	523952	529937	528355	527415	0.59	cps
Selenium	82-1	341	410	435	395	12.37	cps
Selenium	77-2	10	10	17	12	31.50	cps
Selenium	78-2	663	540	600	601	10.26	cps
Silicon	28-1	1378722	1433483	1419853	1410686	2.02	cps
Silver	107-1	243	223	313	260	18.18	cps
Silver	109-1	267	247	280	264	6.35	cps
Sodium	23-2	52539	52553	52121	52404	0.47	cps
Strontium	86-1	5761	5951	6338	6017	4.89	cps
Strontium	88-1	49048	49329	49436	49271	0.41	cps
Sulfur	34-1	105370	104034	105192	104865	0.69	cps
Terbium	159-1	12538811	12354627	12449357	12447599	0.74	cps
Terbium	159-2	8940687	9007928	8948142	8965585	0.41	cps
Thallium	203-1	653	753	727	711	7.28	cps
Thallium	205-1	1677	1507	1657	1613	5.76	cps
Tin	118-1	1927	1980	2114	2007	4.79	cps
Titanium	47-1	103880	106283	106427	105530	1.36	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09LX5	Instrumnet Name :	P7
Client Sample ID :	A6342L	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 15:49:20	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	14341	14395	14822	14519	1.81	cps
Vanadium	51-2	22637	22120	22043	22267	1.45	cps
Yttrium	89-1	16230825	15692159	15762746	15895243	1.84	cps
Yttrium	89-2	5295069	5353463	5256906	5301812	0.92	cps
Zinc	66-2	8029	8396	8346	8257	2.41	cps
Zirconium	90-1	4007	4151	4027	4062	1.91	cps
Zirconium	91-1	813	900	883	866	5.31	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2838658	2819893	2785807	2814786	0.95	cps
Antimony	121-1	164043	165294	165358	164899	0.45	cps
Arsenic	75-2	9019	9557	9286	9287	2.89	cps
Barium	135-1	1109478	1120283	1117800	1115854	0.51	cps
Barium	137-1	2024129	2027022	2004968	2018707	0.59	cps
Beryllium	9-1	11107	10981	10470	10853	3.11	cps
Bismuth	209-1	7982359	7878258	7858673	7906430	0.84	cps
Bismuth	209-2	6638196	6368409	6372988	6459864	2.39	cps
Bromine	81-1	17681	17918	18188	17929	1.42	cps
Bromine	81-2	770	713	770	751	4.36	cps
Cadmium	108-1	1760	1643	1767	1723	4.02	cps
Cadmium	106-1	7612	7279	7429	7440	2.24	cps
Cadmium	111-1	29265	29123	28584	28991	1.24	cps
Calcium	43-1	34950	35218	35194	35121	0.42	cps
Calcium	44-1	578793	583344	582556	581564	0.42	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	300909	301408	299552	300623	0.32	cps
Cobalt	59-2	686664	687449	686020	686711	0.10	cps
Copper	63-2	271322	270942	265734	269333	1.16	cps
Dysprosium	156-1	22148	21854	22585	22195	1.66	cps
Dysprosium	156-2	21894	21186	21817	21632	1.80	cps
Erbium	164-1	18532	18779	18502	18605	0.82	cps
Erbium	164-2	13850	13737	13817	13801	0.42	cps
Gadolinium	160-1	20305	20382	20709	20465	1.05	cps
Gadolinium	160-2	16730	16210	16717	16552	1.79	cps
Holmium	165-1	12687684	12507520	12496387	12563864	0.85	cps
Holmium	165-2	9466095	9292945	9077667	9278902	2.10	cps
Indium	115-1	9677852	9416390	9395094	9496445	1.66	cps
Indium	115-2	4204320	4189293	4095530	4163047	1.42	cps
Iron	56-2	47172106	47220269	47121798	47171391	0.10	cps
Iron	57-2	1190285	1191084	1193951	1191773	0.16	cps
Iron	54-2	2568898	2598791	2553593	2573761	0.89	cps
Krypton	83-1	207	220	217	214	3.24	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	816503	829507	837758	827923	1.29	cps
Lead	207-1	719117	731679	728728	726508	0.90	cps
Lead	208-1	3440921	3467805	3453511	3454079	0.39	cps
Lithium	6-1	1245928	1226357	1234360	1235548	0.80	cps
Magnesium	24-2	1453092	1467142	1418794	1446342	1.72	cps
Manganese	55-2	853412	849818	841527	848253	0.72	cps
Molybdenum	94-1	3971	3831	3887	3896	1.81	cps
Molybdenum	95-1	2764	2534	2924	2740	7.16	cps
Molybdenum	96-1	4057	3947	3977	3994	1.42	cps
Molybdenum	97-1	1970	1613	1680	1755	10.81	cps
Molybdenum	98-1	4347	4507	4344	4400	2.12	cps
Neodymium	150-1	36878	37379	37724	37327	1.14	cps
Neodymium	150-2	25530	25343	24862	25245	1.36	cps
Nickel	60-2	193373	193664	192222	193086	0.39	cps
Phosphorus	31-2	4831	4721	4487	4680	3.75	cps
Potassium	39-2	674246	677456	677385	676362	0.27	cps
Rhodium	103-1	8810976	8675757	8669019	8718584	0.92	cps
Rhodium	103-2	5719916	5752532	5630015	5700821	1.11	cps
Scandium	45-1	4716482	4530474	4581835	4609597	2.08	cps
Scandium	45-2	539710	535426	528703	534613	1.04	cps
Selenium	82-1	980	912	934	942	3.67	cps
Selenium	77-2	153	157	163	158	3.23	cps
Selenium	78-2	863	897	897	886	2.17	cps
Silicon	28-1	7901090	7984521	8560877	8148829	4.41	cps
Silver	107-1	119315	121217	123291	121274	1.64	cps
Silver	109-1	112508	114884	115041	114144	1.24	cps
Sodium	23-2	151708	154308	154692	153569	1.06	cps
Strontium	86-1	25936	25469	25522	25642	1.00	cps
Strontium	88-1	219067	222086	219290	220148	0.76	cps
Sulfur	34-1	117091	115153	114955	115733	1.02	cps
Terbium	159-1	12887087	12663190	12528146	12692808	1.43	cps
Terbium	159-2	9262469	9181239	9078961	9174223	1.00	cps
Thallium	203-1	96485	98748	99708	98314	1.68	cps
Thallium	205-1	232026	237177	236472	235225	1.19	cps
Tin	118-1	10474	9767	10040	10094	3.53	cps
Titanium	47-1	595946	596203	597161	596437	0.11	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-11	Instrumnet Name :	P7
Client Sample ID :	A6342S	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:52:37	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60902	61863	62683	61816	1.44	cps
Vanadium	51-2	487382	481840	478546	482589	0.93	cps
Yttrium	89-1	16694927	16516664	16324611	16512067	1.12	cps
Yttrium	89-2	5473853	5380948	5326760	5393854	1.38	cps
Zinc	66-2	117417	118173	117215	117602	0.43	cps
Zirconium	90-1	6618	6745	6455	6606	2.20	cps
Zirconium	91-1	1500	1620	1417	1512	6.76	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2830338	2809312	2801045	2813565	0.54	cps
Antimony	121-1	7155	7439	7475	7356	2.38	cps
Arsenic	75-2	21706	21552	21482	21580	0.53	cps
Barium	135-1	128880	129370	129774	129341	0.35	cps
Barium	137-1	222017	224114	225323	223818	0.75	cps
Beryllium	9-1	670	757	693	707	6.35	cps
Bismuth	209-1	8015554	7926417	7928789	7956920	0.64	cps
Bismuth	209-2	6495113	6448328	6538194	6493878	0.69	cps
Bromine	81-1	19960	20518	20881	20453	2.27	cps
Bromine	81-2	1437	1443	1433	1438	0.35	cps
Cadmium	108-1	38849	40132	40005	39662	1.78	cps
Cadmium	106-1	44963	45474	43836	44758	1.87	cps
Cadmium	111-1	4637	4013	2972	3874	21.72	cps
Calcium	43-1	29051	28660	29138	28950	0.88	cps
Calcium	44-1	474994	480051	480450	478498	0.64	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7118325	7108819	7053558	7093567	0.49	cps
Cobalt	59-2	41564	42336	41621	41840	1.03	cps
Copper	63-2	5117115	5154786	5081187	5117696	0.72	cps
Dysprosium	156-1	23984	22959	23426	23456	2.19	cps
Dysprosium	156-2	22685	22902	22912	22833	0.56	cps
Erbium	164-1	20191	20872	20989	20684	2.08	cps
Erbium	164-2	15792	15686	14861	15446	3.30	cps
Gadolinium	160-1	22091	21630	21977	21899	1.10	cps
Gadolinium	160-2	17281	17788	17337	17469	1.59	cps
Holmium	165-1	12475170	12628761	12525764	12543231	0.62	cps
Holmium	165-2	9269059	9349410	9317022	9311831	0.43	cps
Indium	115-1	9015977	9019192	8947715	8994295	0.45	cps
Indium	115-2	3876516	3966944	3967116	3936859	1.33	cps
Iron	56-2	94007275	94497429	93670012	94058239	0.44	cps
Iron	57-2	2314023	2301649	2284582	2300085	0.64	cps
Iron	54-2	5327760	5308987	5294641	5310463	0.31	cps
Krypton	83-1	237	217	190	214	10.92	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3574839	3548038	3566107	3562995	0.38	cps
Lead	207-1	2869018	2912274	2936431	2905907	1.18	cps
Lead	208-1	13586704	13616487	13699112	13634101	0.43	cps
Lithium	6-1	1226426	1254663	1223929	1235006	1.38	cps
Magnesium	24-2	1298175	1275410	1275793	1283126	1.02	cps
Manganese	55-2	811999	803767	801207	805658	0.70	cps
Molybdenum	94-1	8189	8269	7992	8150	1.75	cps
Molybdenum	95-1	9436	9550	9230	9405	1.73	cps
Molybdenum	96-1	11568	11695	11731	11665	0.74	cps
Molybdenum	97-1	5861	5968	5775	5868	1.65	cps
Molybdenum	98-1	14901	15502	15055	15152	2.06	cps
Neodymium	150-1	40057	39933	40729	40239	1.06	cps
Neodymium	150-2	27296	26829	26665	26930	1.22	cps
Nickel	60-2	57178	55904	56667	56583	1.13	cps
Phosphorus	31-2	12765	12782	13263	12937	2.18	cps
Potassium	39-2	839164	836235	828508	834636	0.66	cps
Rhodium	103-1	8676985	8653018	8615858	8648620	0.36	cps
Rhodium	103-2	5706704	5730355	5744952	5727337	0.34	cps
Scandium	45-1	4538462	4623681	4496462	4552868	1.42	cps
Scandium	45-2	531456	530112	536414	532661	0.62	cps
Selenium	82-1	467	485	546	499	8.29	cps
Selenium	77-2	50	73	90	71	28.26	cps
Selenium	78-2	737	720	613	690	9.70	cps
Silicon	28-1	7503156	7648995	7523861	7558671	1.04	cps
Silver	107-1	59505	59833	59843	59727	0.32	cps
Silver	109-1	56202	56821	56068	56363	0.71	cps
Sodium	23-2	118760	120570	118583	119304	0.92	cps
Strontium	86-1	16953	17123	16813	16963	0.92	cps
Strontium	88-1	145067	146939	145211	145739	0.71	cps
Sulfur	34-1	112917	113840	112722	113159	0.53	cps
Terbium	159-1	12762708	12715108	12580026	12685947	0.75	cps
Terbium	159-2	9036882	9130260	9279086	9148743	1.34	cps
Thallium	203-1	1843	1797	1880	1840	2.27	cps
Thallium	205-1	4427	4491	4447	4455	0.73	cps
Tin	118-1	20502583	20446653	20278588	20409275	0.57	cps
Titanium	47-1	717861	722924	720463	720416	0.35	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:55:49	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	63209	64401	63152	63587	1.11	cps
Vanadium	51-2	106539	106932	106180	106551	0.35	cps
Yttrium	89-1	16257495	16382515	16354884	16331631	0.40	cps
Yttrium	89-2	5411726	5353006	5458040	5407591	0.97	cps
Zinc	66-2	45984	45900	45512	45799	0.55	cps
Zirconium	90-1	7649	7189	7332	7390	3.19	cps
Zirconium	91-1	1783	1577	1600	1653	6.85	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8090222	7928222	7995196	8004547	1.02	cps
Antimony	121-1	11331	11802	11378	11504	2.25	cps
Arsenic	75-2	53222	52532	52609	52788	0.72	cps
Barium	135-1	141919	144251	142959	143043	0.82	cps
Barium	137-1	247253	250574	248664	248831	0.67	cps
Beryllium	9-1	2597	2564	2764	2641	4.06	cps
Bismuth	209-1	7991183	8116617	8326215	8144672	2.08	cps
Bismuth	209-2	6539713	6416693	6407203	6454537	1.15	cps
Bromine	81-1	94416	100502	103213	99377	4.53	cps
Bromine	81-2	21796	21843	21496	21712	0.87	cps
Cadmium	108-1	400	313	437	383	16.52	cps
Cadmium	106-1	6572	5995	6315	6294	4.59	cps
Cadmium	111-1	5660	5434	5551	5548	2.04	cps
Calcium	43-1	66943	67904	67298	67382	0.72	cps
Calcium	44-1	1104549	1106024	1101934	1104169	0.19	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	296894	291702	292984	293860	0.92	cps
Cobalt	59-2	260851	260470	261518	260946	0.20	cps
Copper	63-2	136327	136015	135598	135980	0.27	cps
Dysprosium	156-1	147815	148866	149708	148796	0.64	cps
Dysprosium	156-2	147484	149644	149027	148719	0.75	cps
Erbium	164-1	125104	125504	126049	125552	0.38	cps
Erbium	164-2	93759	92587	94748	93698	1.15	cps
Gadolinium	160-1	127070	129704	129969	128914	1.24	cps
Gadolinium	160-2	101621	101245	101366	101411	0.19	cps
Holmium	165-1	12827664	12851703	13200784	12960050	1.61	cps
Holmium	165-2	9433344	9373925	9416169	9407813	0.33	cps
Indium	115-1	9564148	9677337	9850177	9697221	1.49	cps
Indium	115-2	4196851	4135531	4145851	4159411	0.79	cps
Iron	56-2	134333568	131913811	131923328	132723569	1.05	cps
Iron	57-2	3283423	3297086	3285217	3288576	0.23	cps
Iron	54-2	7292732	7094780	7108457	7165323	1.54	cps
Krypton	83-1	297	313	360	323	10.15	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1123096	1135021	1141811	1133309	0.84	cps
Lead	207-1	936938	951590	947855	945461	0.81	cps
Lead	208-1	4560596	4604007	4619150	4594584	0.66	cps
Lithium	6-1	1236150	1277340	1252898	1255463	1.65	cps
Magnesium	24-2	1347531	1333228	1334118	1338292	0.60	cps
Manganese	55-2	1961369	1932528	1915759	1936552	1.19	cps
Molybdenum	94-1	11958	12115	12042	12038	0.65	cps
Molybdenum	95-1	14100	14954	14507	14521	2.94	cps
Molybdenum	96-1	17547	17961	17304	17604	1.89	cps
Molybdenum	97-1	9323	9356	9310	9330	0.26	cps
Molybdenum	98-1	23342	23172	23606	23373	0.94	cps
Neodymium	150-1	237010	238347	235840	237066	0.53	cps
Neodymium	150-2	157960	157970	157815	157915	0.05	cps
Nickel	60-2	48792	49227	49244	49088	0.52	cps
Phosphorus	31-2	22747	22977	22029	22585	2.19	cps
Potassium	39-2	718202	713245	711769	714405	0.47	cps
Rhodium	103-1	8762657	8784939	9021288	8856295	1.62	cps
Rhodium	103-2	5744356	5629103	5713617	5695692	1.05	cps
Scandium	45-1	4619911	4661154	4742141	4674402	1.33	cps
Scandium	45-2	540401	536250	540190	538947	0.43	cps
Selenium	82-1	1023	1060	1041	1041	1.75	cps
Selenium	77-2	477	400	453	443	8.86	cps
Selenium	78-2	1053	1067	1087	1069	1.57	cps
Silicon	28-1	8977889	8995007	8991967	8988288	0.10	cps
Silver	107-1	6498	6482	6348	6443	1.28	cps
Silver	109-1	6115	5971	6301	6129	2.70	cps
Sodium	23-2	451278	444440	446946	447555	0.77	cps
Strontium	86-1	69724	71851	71603	71059	1.64	cps
Strontium	88-1	622035	629855	622534	624808	0.70	cps
Sulfur	34-1	215451	214757	213602	214603	0.44	cps
Terbium	159-1	13062182	12963678	13374218	13133359	1.63	cps
Terbium	159-2	9361480	9310519	9265173	9312390	0.52	cps
Thallium	203-1	2324	2500	2524	2449	4.47	cps
Thallium	205-1	5431	5741	5825	5666	3.66	cps
Tin	118-1	122509	119507	129203	123740	4.01	cps
Titanium	47-1	468147	473374	467342	469621	0.70	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-09	Instrumnet Name :	P7
Client Sample ID :	A6307	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 15:58:55	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	371898	373289	378031	374406	0.86	cps
Vanadium	51-2	194520	192545	192552	193206	0.59	cps
Yttrium	89-1	18099898	18020377	18574466	18231581	1.64	cps
Yttrium	89-2	5981986	5869437	5932526	5927983	0.95	cps
Zinc	66-2	45793	46402	46054	46083	0.66	cps
Zirconium	90-1	10230	10174	10030	10145	1.02	cps
Zirconium	91-1	2227	2294	2330	2284	2.29	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	767224	755368	754013	758868	0.96	cps
Antimony	121-1	17327	16773	17120	17074	1.64	cps
Arsenic	75-2	38697	37828	37434	37986	1.70	cps
Barium	135-1	95735	94178	93541	94485	1.19	cps
Barium	137-1	164984	164020	161670	163558	1.04	cps
Beryllium	9-1	250	233	163	216	21.33	cps
Bismuth	209-1	7703520	8265486	7968394	7979133	3.52	cps
Bismuth	209-2	6387411	6360210	6379336	6375652	0.22	cps
Bromine	81-1	23679	23556	23158	23464	1.16	cps
Bromine	81-2	2164	2013	2080	2086	3.60	cps
Cadmium	108-1	225417	220926	218376	221573	1.61	cps
Cadmium	106-1	232211	226978	222156	227115	2.21	cps
Cadmium	111-1	4966	4497	2889	4117	26.45	cps
Calcium	43-1	54009	53524	51202	52912	2.83	cps
Calcium	44-1	896445	871701	851194	873113	2.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	34394367	33875776	33536625	33935589	1.27	cps
Cobalt	59-2	13603	14367	13653	13874	3.08	cps
Copper	63-2	1587409	1546135	1503562	1545702	2.71	cps
Dysprosium	156-1	7462	7385	7309	7385	1.04	cps
Dysprosium	156-2	7419	7139	7625	7394	3.31	cps
Erbium	164-1	5318	5124	5101	5181	2.30	cps
Erbium	164-2	3701	3914	3647	3754	3.76	cps
Gadolinium	160-1	6728	6572	6588	6629	1.30	cps
Gadolinium	160-2	5504	5248	5234	5329	2.86	cps
Holmium	165-1	12012549	12547991	12234729	12265090	2.19	cps
Holmium	165-2	9098064	8912772	8854744	8955194	1.42	cps
Indium	115-1	6398131	6981041	6459677	6612950	4.84	cps
Indium	115-2	2661972	2638935	2668937	2656615	0.59	cps
Iron	56-2	75323101	75532547	73973959	74943202	1.13	cps
Iron	57-2	1860729	1879090	1850513	1863444	0.78	cps
Iron	54-2	5228145	5242430	5129261	5199945	1.19	cps
Krypton	83-1	250	243	197	230	12.63	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5549267	5521422	5507176	5525955	0.39	cps
Lead	207-1	4418562	4439487	4436003	4431350	0.25	cps
Lead	208-1	20983121	20922078	21037076	20980758	0.27	cps
Lithium	6-1	1203884	1231098	1190139	1208374	1.73	cps
Magnesium	24-2	316817	313708	314062	314862	0.54	cps
Manganese	55-2	289237	288491	289693	289140	0.21	cps
Molybdenum	94-1	18612	18295	17894	18267	1.97	cps
Molybdenum	95-1	26978	26564	25526	26356	2.84	cps
Molybdenum	96-1	30515	29633	29173	29774	2.29	cps
Molybdenum	97-1	16910	16056	15832	16266	3.50	cps
Molybdenum	98-1	43822	43130	41579	42844	2.68	cps
Neodymium	150-1	13957	14314	13079	13784	4.61	cps
Neodymium	150-2	8916	9193	8903	9004	1.82	cps
Nickel	60-2	28173	28704	28033	28303	1.25	cps
Phosphorus	31-2	19613	19456	19209	19426	1.05	cps
Potassium	39-2	464521	463042	457790	461784	0.77	cps
Rhodium	103-1	8092157	8402914	8113966	8203013	2.11	cps
Rhodium	103-2	5328855	5212496	5290080	5277144	1.12	cps
Scandium	45-1	4124404	4276834	4089565	4163601	2.39	cps
Scandium	45-2	468201	464680	459566	464149	0.94	cps
Selenium	82-1	514	402	480	465	12.31	cps
Selenium	77-2	30	40	20	30	33.33	cps
Selenium	78-2	517	573	547	546	5.20	cps
Silicon	28-1	5732400	5510582	5452415	5565132	2.65	cps
Silver	107-1	209482	206655	205378	207172	1.01	cps
Silver	109-1	196225	193658	192182	194022	1.05	cps
Sodium	23-2	151544	150374	151388	151102	0.42	cps
Strontium	86-1	29790	28855	28053	28899	3.01	cps
Strontium	88-1	258400	250748	245107	251418	2.65	cps
Sulfur	34-1	132562	130935	130313	131270	0.88	cps
Terbium	159-1	12143029	12777617	12317787	12412811	2.64	cps
Terbium	159-2	8790790	8664609	8699853	8718418	0.75	cps
Thallium	203-1	1140	1277	1167	1195	6.07	cps
Thallium	205-1	2874	2687	2694	2751	3.85	cps
Tin	118-1	117841945	116825898	114443298	116370380	1.50	cps
Titanium	47-1	469532	454793	439445	454590	3.31	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:02:05	DataFile Name :	034SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	22977	22469	22436	22627	1.34	cps
Vanadium	51-2	96714	95936	95942	96197	0.47	cps
Yttrium	89-1	14828054	15617397	15047251	15164234	2.69	cps
Yttrium	89-2	4981239	4823191	4835483	4879971	1.80	cps
Zinc	66-2	24357	24437	24807	24534	0.98	cps
Zirconium	90-1	8593	8569	8400	8520	1.24	cps
Zirconium	91-1	1887	1850	1863	1867	0.99	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1158515	1156165	1185061	1166580	1.38	cps
Antimony	121-1	4397	3897	4151	4148	6.03	cps
Arsenic	75-2	11505	11988	12115	11869	2.71	cps
Barium	135-1	95863	94934	96065	95620	0.63	cps
Barium	137-1	164344	167005	167975	166441	1.13	cps
Beryllium	9-1	433	367	363	388	10.18	cps
Bismuth	209-1	7683020	7648847	7642083	7657983	0.29	cps
Bismuth	209-2	6209926	6241831	6267055	6239604	0.46	cps
Bromine	81-1	15208	15675	16099	15661	2.85	cps
Bromine	81-2	817	663	813	764	11.46	cps
Cadmium	108-1	287	167	193	216	29.23	cps
Cadmium	106-1	5204	5038	4884	5042	3.18	cps
Cadmium	111-1	4292	4210	4180	4227	1.37	cps
Calcium	43-1	43051	42315	42315	42561	1.00	cps
Calcium	44-1	699048	701756	708334	703046	0.68	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	122308	121753	120224	121428	0.89	cps
Cobalt	59-2	47776	48317	48769	48287	1.03	cps
Copper	63-2	158964	159785	161060	159936	0.66	cps
Dysprosium	156-1	15038	15632	15569	15413	2.12	cps
Dysprosium	156-2	14985	14925	14601	14837	1.39	cps
Erbium	164-1	13764	13470	13874	13702	1.52	cps
Erbium	164-2	10120	10304	10164	10196	0.94	cps
Gadolinium	160-1	14554	14421	14147	14374	1.44	cps
Gadolinium	160-2	11605	11785	11615	11668	0.87	cps
Holmium	165-1	12110323	11944304	11848474	11967700	1.11	cps
Holmium	165-2	8723896	8911533	8805238	8813556	1.07	cps
Indium	115-1	8695680	8685068	8713729	8698159	0.17	cps
Indium	115-2	3899672	3874753	3942046	3905491	0.87	cps
Iron	56-2	67019116	67239834	67199981	67152977	0.18	cps
Iron	57-2	1642429	1691462	1634326	1656073	1.87	cps
Iron	54-2	3620557	3640456	3643650	3634888	0.34	cps
Krypton	83-1	227	153	140	173	26.92	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	242428	242640	245140	243403	0.62	cps
Lead	207-1	199449	200611	198775	199612	0.47	cps
Lead	208-1	933550	940121	937440	937037	0.35	cps
Lithium	6-1	1202025	1206285	1201244	1203185	0.23	cps
Magnesium	24-2	757945	745239	754818	752667	0.88	cps
Manganese	55-2	617630	617039	619560	618076	0.21	cps
Molybdenum	94-1	5404	5648	5621	5558	2.40	cps
Molybdenum	95-1	5858	5811	5928	5866	1.00	cps
Molybdenum	96-1	7342	7325	7499	7389	1.29	cps
Molybdenum	97-1	3804	3641	3641	3695	2.55	cps
Molybdenum	98-1	9003	9163	9286	9151	1.55	cps
Neodymium	150-1	26194	26816	26662	26557	1.22	cps
Neodymium	150-2	17858	17935	17755	17849	0.51	cps
Nickel	60-2	34830	34222	34062	34372	1.18	cps
Phosphorus	31-2	7068	7202	7449	7240	2.66	cps
Potassium	39-2	407689	418482	418340	414837	1.49	cps
Rhodium	103-1	7931691	7934323	7873845	7913286	0.43	cps
Rhodium	103-2	5296063	5370630	5342558	5336417	0.71	cps
Scandium	45-1	3972647	3920739	3990893	3961426	0.92	cps
Scandium	45-2	479440	483127	490015	484194	1.11	cps
Selenium	82-1	357	442	509	436	17.47	cps
Selenium	77-2	73	63	47	61	22.04	cps
Selenium	78-2	560	623	467	550	14.33	cps
Silicon	28-1	5866280	6043835	6032570	5980895	1.66	cps
Silver	107-1	6031	5648	5808	5829	3.30	cps
Silver	109-1	5531	5254	5158	5314	3.65	cps
Sodium	23-2	273659	272281	274693	273544	0.44	cps
Strontium	86-1	30836	30792	31156	30928	0.64	cps
Strontium	88-1	269802	273629	276657	273363	1.26	cps
Sulfur	34-1	108220	109817	109002	109013	0.73	cps
Terbium	159-1	12040113	12056936	11903811	12000287	0.70	cps
Terbium	159-2	8701769	8658544	8634322	8664878	0.39	cps
Thallium	203-1	1303	1347	1390	1347	3.22	cps
Thallium	205-1	3304	3180	3214	3233	1.97	cps
Tin	118-1	88544	89509	95235	91096	3.97	cps
Titanium	47-1	246751	248655	252997	249468	1.28	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-11	Instrumnet Name :	P7
Client Sample ID :	A6309	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:05:13	DataFile Name :	035SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43818	42852	42471	43047	1.61	cps
Vanadium	51-2	51517	52384	51578	51826	0.93	cps
Yttrium	89-1	14718244	14618818	14814068	14717043	0.66	cps
Yttrium	89-2	4963714	5000394	4994395	4986168	0.39	cps
Zinc	66-2	86284	88738	87897	87639	1.42	cps
Zirconium	90-1	5961	5885	6075	5974	1.60	cps
Zirconium	91-1	1217	1363	1230	1270	6.39	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3023509	3064745	3071703	3053319	0.85	cps
Antimony	121-1	340	413	490	414	18.10	cps
Arsenic	75-2	2734	2650	2660	2681	1.70	cps
Barium	135-1	95027	96987	95991	96001	1.02	cps
Barium	137-1	165673	167119	166610	166467	0.44	cps
Beryllium	9-1	710	760	703	724	4.28	cps
Bismuth	209-1	7790743	7678213	7788204	7752387	0.83	cps
Bismuth	209-2	6244516	6264558	6306286	6271786	0.50	cps
Bromine	81-1	16646	16179	16583	16469	1.54	cps
Bromine	81-2	727	737	833	766	7.70	cps
Cadmium	108-1	40	47	60	49	20.83	cps
Cadmium	106-1	5081	5081	4754	4972	3.79	cps
Cadmium	111-1	3592	3634	3349	3525	4.36	cps
Calcium	43-1	32338	33370	32795	32834	1.58	cps
Calcium	44-1	549186	551633	550540	550453	0.22	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	115169	114933	114111	114737	0.48	cps
Cobalt	59-2	37263	37971	37373	37536	1.02	cps
Copper	63-2	44172	43988	44289	44149	0.34	cps
Dysprosium	156-1	14785	14641	15132	14852	1.70	cps
Dysprosium	156-2	14694	14231	14407	14444	1.62	cps
Erbium	164-1	12803	12896	12853	12850	0.36	cps
Erbium	164-2	9950	9380	9340	9557	3.57	cps
Gadolinium	160-1	14428	14077	13930	14145	1.81	cps
Gadolinium	160-2	11318	11642	10924	11295	3.18	cps
Holmium	165-1	11993791	12172584	11910658	12025678	1.11	cps
Holmium	165-2	8883091	9012014	8886560	8927222	0.82	cps
Indium	115-1	9012043	8885262	8987730	8961678	0.75	cps
Indium	115-2	3899409	3976576	3925249	3933745	1.00	cps
Iron	56-2	38898342	39569850	38934773	39134322	0.96	cps
Iron	57-2	980077	992274	978990	983780	0.75	cps
Iron	54-2	2142979	2152989	2094404	2130124	1.47	cps
Krypton	83-1	217	217	203	212	3.63	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	68541	69101	69992	69211	1.06	cps
Lead	207-1	55597	54894	56279	55590	1.25	cps
Lead	208-1	261326	263428	266014	263589	0.89	cps
Lithium	6-1	1212214	1212604	1220325	1215048	0.38	cps
Magnesium	24-2	1174904	1187561	1203962	1188809	1.23	cps
Manganese	55-2	285930	285916	283478	285108	0.50	cps
Molybdenum	94-1	2997	2944	2834	2925	2.85	cps
Molybdenum	95-1	1010	987	970	989	2.03	cps
Molybdenum	96-1	2070	1917	1810	1932	6.76	cps
Molybdenum	97-1	750	553	667	657	15.03	cps
Molybdenum	98-1	1493	1727	1560	1593	7.54	cps
Neodymium	150-1	24495	24164	24852	24504	1.40	cps
Neodymium	150-2	16169	15846	16697	16237	2.65	cps
Nickel	60-2	31263	30691	30675	30876	1.08	cps
Phosphorus	31-2	5018	5031	5011	5020	0.20	cps
Potassium	39-2	472272	477087	473705	474355	0.52	cps
Rhodium	103-1	8177795	8170408	8117633	8155279	0.40	cps
Rhodium	103-2	5401737	5481655	5418931	5434107	0.77	cps
Scandium	45-1	4189625	4177447	4165213	4177429	0.29	cps
Scandium	45-2	498851	503138	501155	501048	0.43	cps
Selenium	82-1	386	388	426	400	5.67	cps
Selenium	77-2	50	37	50	46	16.89	cps
Selenium	78-2	647	627	457	577	18.10	cps
Silicon	28-1	8698490	8809239	8973729	8827153	1.57	cps
Silver	107-1	993	873	927	931	6.46	cps
Silver	109-1	873	920	1013	936	7.62	cps
Sodium	23-2	183265	183182	183269	183239	0.03	cps
Strontium	86-1	23799	24113	23702	23872	0.90	cps
Strontium	88-1	212042	212093	211907	212014	0.05	cps
Sulfur	34-1	106961	105424	104840	105741	1.04	cps
Terbium	159-1	12273417	12098153	12078849	12150140	0.88	cps
Terbium	159-2	8751284	8759714	8797438	8769479	0.28	cps
Thallium	203-1	1307	1437	1443	1396	5.52	cps
Thallium	205-1	3340	3364	3424	3376	1.27	cps
Tin	118-1	12599	13543	14731	13624	7.84	cps
Titanium	47-1	503486	509333	508173	506997	0.61	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-12	Instrumnet Name :	P7
Client Sample ID :	A6320	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:08:26	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	31634	31825	31594	31684	0.39	cps
Vanadium	51-2	64035	65133	64008	64392	1.00	cps
Yttrium	89-1	15469082	15160925	15436559	15355522	1.10	cps
Yttrium	89-2	5135537	5138293	5091897	5121909	0.51	cps
Zinc	66-2	26009	26560	26357	26309	1.06	cps
Zirconium	90-1	6181	6401	6495	6359	2.53	cps
Zirconium	91-1	1487	1473	1467	1476	0.69	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3313641	3341026	3325584	3326750	0.41	cps
Antimony	121-1	2207	2060	2007	2091	4.95	cps
Arsenic	75-2	24280	23719	24437	24145	1.56	cps
Barium	135-1	232386	231979	229613	231326	0.65	cps
Barium	137-1	404591	405750	401755	404032	0.51	cps
Beryllium	9-1	857	983	840	893	8.77	cps
Bismuth	209-1	7621271	7508407	7731054	7620244	1.46	cps
Bismuth	209-2	6259792	6242289	6323913	6275331	0.68	cps
Bromine	81-1	16890	16853	16526	16756	1.20	cps
Bromine	81-2	827	840	967	878	8.80	cps
Cadmium	108-1	9770	9910	9607	9762	1.56	cps
Cadmium	106-1	14821	14080	14160	14354	2.83	cps
Cadmium	111-1	4252	3619	3841	3904	8.23	cps
Calcium	43-1	53354	53554	53089	53332	0.44	cps
Calcium	44-1	888763	889434	878135	885444	0.72	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13106277	13185136	13042948	13111454	0.54	cps
Cobalt	59-2	46646	46422	46926	46664	0.54	cps
Copper	63-2	8907375	8927587	8973935	8936299	0.38	cps
Dysprosium	156-1	35064	33911	34258	34411	1.72	cps
Dysprosium	156-2	32210	32618	32330	32386	0.65	cps
Erbium	164-1	30002	29979	30173	30051	0.35	cps
Erbium	164-2	22221	22582	21830	22211	1.69	cps
Gadolinium	160-1	34051	34235	34734	34340	1.03	cps
Gadolinium	160-2	26896	27113	27066	27025	0.42	cps
Holmium	165-1	12013483	11569354	11988415	11857084	2.10	cps
Holmium	165-2	8772907	8895139	8948077	8872041	1.01	cps
Indium	115-1	8739631	8458827	8711107	8636522	1.79	cps
Indium	115-2	3800717	3831821	3787812	3806783	0.59	cps
Iron	56-2	62972517	62669844	62516639	62719667	0.37	cps
Iron	57-2	1578009	1549335	1559931	1562425	0.93	cps
Iron	54-2	3833493	3837844	3785892	3819077	0.75	cps
Krypton	83-1	257	170	207	211	20.61	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1245357	1254155	1265243	1254918	0.79	cps
Lead	207-1	1002114	1006173	1005462	1004583	0.22	cps
Lead	208-1	4934611	4957620	4968979	4953737	0.35	cps
Lithium	6-1	1209503	1204714	1228992	1214403	1.06	cps
Magnesium	24-2	1331038	1311381	1293331	1311917	1.44	cps
Manganese	55-2	875536	869318	865160	870004	0.60	cps
Molybdenum	94-1	7379	6918	7245	7181	3.30	cps
Molybdenum	95-1	7375	7145	7335	7285	1.69	cps
Molybdenum	96-1	9116	9133	9110	9120	0.13	cps
Molybdenum	97-1	4431	4501	4517	4483	1.03	cps
Molybdenum	98-1	11648	12095	11548	11764	2.48	cps
Neodymium	150-1	61537	62099	61021	61552	0.88	cps
Neodymium	150-2	40521	40699	41157	40792	0.80	cps
Nickel	60-2	101020	99708	100289	100339	0.66	cps
Phosphorus	31-2	9366	9370	9443	9393	0.46	cps
Potassium	39-2	777010	774876	772852	774913	0.27	cps
Rhodium	103-1	8010784	7687587	7961359	7886577	2.21	cps
Rhodium	103-2	5302643	5304608	5372525	5326592	0.75	cps
Scandium	45-1	4157393	3976150	4074795	4069446	2.23	cps
Scandium	45-2	488402	488522	490079	489001	0.19	cps
Selenium	82-1	443	505	551	500	10.84	cps
Selenium	77-2	113	100	87	100	13.33	cps
Selenium	78-2	690	623	570	628	9.58	cps
Silicon	28-1	8325541	8344792	8150905	8273746	1.29	cps
Silver	107-1	34461	34995	34651	34703	0.78	cps
Silver	109-1	32570	33168	32420	32719	1.21	cps
Sodium	23-2	262562	265396	264851	264270	0.57	cps
Strontium	86-1	62184	61842	61230	61752	0.78	cps
Strontium	88-1	546372	547042	540245	544553	0.69	cps
Sulfur	34-1	156337	153613	153795	154581	0.99	cps
Terbium	159-1	12101231	11714463	12077009	11964235	1.81	cps
Terbium	159-2	8705562	8854144	8736957	8765554	0.89	cps
Thallium	203-1	2170	2180	2267	2206	2.41	cps
Thallium	205-1	5571	5384	5578	5511	1.99	cps
Tin	118-1	6836964	6783901	6768215	6796360	0.53	cps
Titanium	47-1	405591	400474	396171	400745	1.18	cps

Reviewed By:Eman
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LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:11:41	DataFile Name :	037SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	144278	144645	144773	144565	0.18	cps
Vanadium	51-2	96848	97603	97338	97263	0.39	cps
Yttrium	89-1	15335471	14767851	15221112	15108144	1.99	cps
Yttrium	89-2	5070916	5111460	5041328	5074568	0.69	cps
Zinc	66-2	56583	57336	56416	56779	0.86	cps
Zirconium	90-1	8282	8256	8052	8197	1.54	cps
Zirconium	91-1	1670	1697	1937	1768	8.31	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4675645	4744606	4688133	4702795	0.78	cps
Antimony	121-1	9903	10077	9954	9978	0.89	cps
Arsenic	75-2	177966	177193	177261	177474	0.24	cps
Barium	135-1	699773	708720	710186	706226	0.80	cps
Barium	137-1	1208784	1225906	1226430	1220373	0.82	cps
Beryllium	9-1	2934	2924	2924	2927	0.20	cps
Bismuth	209-1	7695071	7634716	7629929	7653238	0.47	cps
Bismuth	209-2	6449118	6051672	6301332	6267374	3.21	cps
Bromine	81-1	28952	29576	30815	29781	3.19	cps
Bromine	81-2	4151	3997	4371	4173	4.50	cps
Cadmium	108-1	6105	6168	5708	5994	4.16	cps
Cadmium	106-1	11855	11658	11625	11713	1.06	cps
Cadmium	111-1	10730	10471	10893	10698	1.99	cps
Calcium	43-1	301389	302927	302226	302181	0.25	cps
Calcium	44-1	4767284	4791828	4706282	4755131	0.93	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	11610432	11609115	11575195	11598247	0.17	cps
Cobalt	59-2	222382	222856	221453	222230	0.32	cps
Copper	63-2	6274382	6261436	6393458	6309759	1.15	cps
Dysprosium	156-1	58672	59164	59127	58988	0.46	cps
Dysprosium	156-2	56369	56781	57082	56744	0.63	cps
Erbium	164-1	52625	53391	53555	53191	0.93	cps
Erbium	164-2	38703	39686	39449	39280	1.31	cps
Gadolinium	160-1	58371	58716	57735	58274	0.85	cps
Gadolinium	160-2	45704	46102	45637	45815	0.55	cps
Holmium	165-1	12177616	12091318	12114918	12127951	0.37	cps
Holmium	165-2	9243649	8666802	9053877	8988109	3.27	cps
Indium	115-1	8878228	8719703	8746324	8781418	0.97	cps
Indium	115-2	3937534	3712484	3844884	3831634	2.95	cps
Iron	56-2	642733430	646164017	645033110	644643519	0.27	cps
Iron	57-2	15870536	15841448	15818324	15843436	0.17	cps
Iron	54-2	34762844	34857653	34814734	34811744	0.14	cps
Krypton	83-1	303	277	223	268	15.21	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2092521	2076496	2092611	2087209	0.44	cps
Lead	207-1	1560297	1571224	1578265	1569929	0.58	cps
Lead	208-1	7851297	7948827	7940232	7913452	0.68	cps
Lithium	6-1	1213078	1223025	1224333	1220145	0.50	cps
Magnesium	24-2	1972875	1976532	1974410	1974606	0.09	cps
Manganese	55-2	7185243	7327647	7337630	7283507	1.17	cps
Molybdenum	94-1	19440	19380	19063	19294	1.05	cps
Molybdenum	95-1	21803	22147	21673	21874	1.12	cps
Molybdenum	96-1	31858	31928	31634	31807	0.48	cps
Molybdenum	97-1	13653	13610	13940	13734	1.31	cps
Molybdenum	98-1	34811	34925	35373	35036	0.85	cps
Neodymium	150-1	101217	102895	103725	102612	1.25	cps
Neodymium	150-2	68100	68716	67752	68189	0.72	cps
Nickel	60-2	199822	198790	198576	199063	0.33	cps
Phosphorus	31-2	35468	35114	35207	35263	0.52	cps
Potassium	39-2	1294991	1320059	1278004	1297685	1.63	cps
Rhodium	103-1	8016170	7984589	7955429	7985396	0.38	cps
Rhodium	103-2	5432423	5110665	5306906	5283332	3.07	cps
Scandium	45-1	4198258	4126114	4067045	4130472	1.59	cps
Scandium	45-2	496290	469755	486533	484193	2.77	cps
Selenium	82-1	637	689	673	666	3.95	cps
Selenium	77-2	177	203	163	181	11.25	cps
Selenium	78-2	750	847	810	802	6.08	cps
Silicon	28-1	25533552	25610479	25407204	25517078	0.40	cps
Silver	107-1	38745	39343	39684	39257	1.21	cps
Silver	109-1	36813	37388	38103	37435	1.73	cps
Sodium	23-2	1232704	1252141	1258743	1247862	1.08	cps
Strontium	86-1	289427	292475	292251	291384	0.58	cps
Strontium	88-1	2615189	2649360	2613998	2626182	0.76	cps
Sulfur	34-1	295443	296059	293575	295025	0.44	cps
Terbium	159-1	12393158	12265361	12235224	12297915	0.68	cps
Terbium	159-2	8978072	8623469	8845450	8815664	2.03	cps
Thallium	203-1	4974	5064	5208	5082	2.32	cps
Thallium	205-1	12336	12546	12309	12397	1.05	cps
Tin	118-1	4058851	4066940	4035570	4053787	0.40	cps
Titanium	47-1	716081	724235	721549	720622	0.58	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:14:47	DataFile Name :	038SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	212890	218709	218708	216769	1.55	cps
Vanadium	51-2	270050	271170	268866	270029	0.43	cps
Yttrium	89-1	15965853	15734152	15619500	15773168	1.12	cps
Yttrium	89-2	5321886	5039176	5284114	5215059	2.94	cps
Zinc	66-2	378702	381177	377922	379267	0.45	cps
Zirconium	90-1	17277	17934	17874	17695	2.05	cps
Zirconium	91-1	3941	4221	4184	4115	3.70	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1951623	1988310	1964301	1968078	0.95	cps
Antimony	121-1	2337	2290	2344	2324	1.25	cps
Arsenic	75-2	6755	6788	6775	6773	0.25	cps
Barium	135-1	136358	139169	139233	138253	1.19	cps
Barium	137-1	238186	241727	242422	240778	0.94	cps
Beryllium	9-1	610	677	697	661	6.86	cps
Bismuth	209-1	7812783	7575838	7662125	7683582	1.56	cps
Bismuth	209-2	6137833	6251176	6221165	6203391	0.95	cps
Bromine	81-1	16946	17874	17274	17365	2.71	cps
Bromine	81-2	1130	1097	987	1071	7.00	cps
Cadmium	108-1	7048	7349	7192	7196	2.09	cps
Cadmium	106-1	12435	11985	12189	12203	1.85	cps
Cadmium	111-1	4491	3992	4194	4226	5.94	cps
Calcium	43-1	45351	45692	45922	45655	0.63	cps
Calcium	44-1	758844	761809	753692	758115	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6354214	6380021	6335839	6356691	0.35	cps
Cobalt	59-2	31316	30959	31423	31233	0.78	cps
Copper	63-2	10363185	10370103	10407895	10380394	0.23	cps
Dysprosium	156-1	35181	35712	35775	35556	0.92	cps
Dysprosium	156-2	33821	33781	34285	33962	0.83	cps
Erbium	164-1	27577	28148	27784	27837	1.04	cps
Erbium	164-2	19874	19901	20562	20112	1.94	cps
Gadolinium	160-1	33564	35455	34419	34479	2.75	cps
Gadolinium	160-2	27123	27216	27180	27173	0.17	cps
Holmium	165-1	12228152	11968476	12081576	12092735	1.08	cps
Holmium	165-2	8860101	8854439	8689964	8801501	1.10	cps
Indium	115-1	9045185	8846208	8722429	8871274	1.84	cps
Indium	115-2	3866338	3843411	3847597	3852449	0.32	cps
Iron	56-2	37535963	37821098	37462661	37606574	0.50	cps
Iron	57-2	955486	949551	960204	955080	0.56	cps
Iron	54-2	2302898	2266250	2261397	2276849	1.00	cps
Krypton	83-1	243	183	193	207	15.55	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1609600	1631567	1624641	1621936	0.69	cps
Lead	207-1	1248382	1259011	1262587	1256660	0.59	cps
Lead	208-1	6267944	6325378	6340744	6311355	0.61	cps
Lithium	6-1	1195565	1217514	1199693	1204257	0.97	cps
Magnesium	24-2	717229	716292	717535	717019	0.09	cps
Manganese	55-2	396617	395643	398263	396841	0.33	cps
Molybdenum	94-1	7025	6862	6618	6835	3.00	cps
Molybdenum	95-1	7996	7432	7435	7621	4.26	cps
Molybdenum	96-1	9136	9443	9423	9334	1.84	cps
Molybdenum	97-1	4864	4881	4724	4823	1.78	cps
Molybdenum	98-1	12345	12369	12449	12388	0.44	cps
Neodymium	150-1	64748	65940	67256	65981	1.90	cps
Neodymium	150-2	43737	44166	44246	44050	0.62	cps
Nickel	60-2	280644	278131	278296	279024	0.50	cps
Phosphorus	31-2	6958	7038	6852	6949	1.35	cps
Potassium	39-2	507266	502857	511465	507196	0.85	cps
Rhodium	103-1	8297995	8069893	8111369	8159752	1.49	cps
Rhodium	103-2	5365051	5377823	5353032	5365302	0.23	cps
Scandium	45-1	4286911	4184664	4152054	4207876	1.67	cps
Scandium	45-2	486446	490366	487982	488265	0.40	cps
Selenium	82-1	463	549	576	529	11.15	cps
Selenium	77-2	153	120	100	124	21.65	cps
Selenium	78-2	760	660	670	697	7.91	cps
Silicon	28-1	7043256	7120821	7008552	7057543	0.81	cps
Silver	107-1	37562	37826	37893	37760	0.46	cps
Silver	109-1	36028	35206	35467	35567	1.18	cps
Sodium	23-2	257783	257234	257725	257581	0.12	cps
Strontium	86-1	48727	48797	48981	48835	0.27	cps
Strontium	88-1	424151	427319	425515	425662	0.37	cps
Sulfur	34-1	216768	215163	211134	214355	1.35	cps
Terbium	159-1	12435106	12226512	12102114	12254577	1.37	cps
Terbium	159-2	8879549	8611639	8567457	8686215	1.94	cps
Thallium	203-1	1597	1673	1897	1722	9.05	cps
Thallium	205-1	3784	3847	3984	3872	2.64	cps
Tin	118-1	3859598	3878844	3861771	3866738	0.27	cps
Titanium	47-1	309712	313392	310738	311281	0.61	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:17:51	DataFile Name :	039SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	174737	175804	174156	174899	0.48	cps
Vanadium	51-2	55267	54936	54685	54963	0.53	cps
Yttrium	89-1	15698190	15430479	15322820	15483830	1.25	cps
Yttrium	89-2	5024765	5100684	5059668	5061706	0.75	cps
Zinc	66-2	227768	225541	225430	226246	0.58	cps
Zirconium	90-1	6735	7215	7309	7086	4.34	cps
Zirconium	91-1	1697	1673	1553	1641	4.69	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5444449	5443482	5389160	5425697	0.58	cps
Antimony	121-1	8429	8126	8763	8439	3.78	cps
Arsenic	75-2	50218	50462	49743	50141	0.73	cps
Barium	135-1	664911	671876	668471	668419	0.52	cps
Barium	137-1	1149827	1168048	1158128	1158668	0.79	cps
Beryllium	9-1	2130	2087	1800	2006	8.94	cps
Bismuth	209-1	7658129	7580875	7637047	7625350	0.52	cps
Bismuth	209-2	6150987	6182517	6192215	6175239	0.35	cps
Bromine	81-1	34647	35195	35780	35207	1.61	cps
Bromine	81-2	5791	5721	5631	5714	1.40	cps
Cadmium	108-1	287	293	347	309	10.65	cps
Cadmium	106-1	5434	5584	5511	5510	1.36	cps
Cadmium	111-1	6804	6871	6635	6770	1.79	cps
Calcium	43-1	779172	776313	770497	775328	0.57	cps
Calcium	44-1	12251269	12244975	12137735	12211326	0.52	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	215241	212482	212847	213523	0.70	cps
Cobalt	59-2	80263	79760	79847	79957	0.34	cps
Copper	63-2	146846	144695	144139	145227	0.98	cps
Dysprosium	156-1	88500	89509	89778	89262	0.76	cps
Dysprosium	156-2	85991	84529	84948	85156	0.88	cps
Erbium	164-1	79598	80855	80423	80292	0.80	cps
Erbium	164-2	59138	59583	59985	59568	0.71	cps
Gadolinium	160-1	86002	86525	88356	86961	1.42	cps
Gadolinium	160-2	68034	66681	66765	67160	1.13	cps
Holmium	165-1	12234938	12094043	12022309	12117097	0.89	cps
Holmium	165-2	9014244	8848415	8829410	8897357	1.14	cps
Indium	115-1	9066528	8965329	8942210	8991356	0.74	cps
Indium	115-2	3916468	3902136	3900050	3906218	0.23	cps
Iron	56-2	114872008	113849285	112603628	113774974	1.00	cps
Iron	57-2	2863057	2806735	2820628	2830140	1.04	cps
Iron	54-2	6225144	6196316	6083359	6168273	1.21	cps
Krypton	83-1	290	317	303	303	4.39	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	824995	835642	837838	832825	0.82	cps
Lead	207-1	681948	686301	694766	687672	0.95	cps
Lead	208-1	3309206	3226764	3379258	3305076	2.31	cps
Lithium	6-1	1208919	1221589	1226844	1219117	0.76	cps
Magnesium	24-2	2587882	2591461	2610056	2596467	0.46	cps
Manganese	55-2	873538	866194	865923	868552	0.50	cps
Molybdenum	94-1	25850	26160	26153	26054	0.68	cps
Molybdenum	95-1	20988	21005	21172	21055	0.48	cps
Molybdenum	96-1	26347	26594	26204	26382	0.75	cps
Molybdenum	97-1	13219	12862	13400	13160	2.08	cps
Molybdenum	98-1	34474	33411	33970	33952	1.57	cps
Neodymium	150-1	146263	147930	144687	146293	1.11	cps
Neodymium	150-2	98232	97907	96323	97487	1.05	cps
Nickel	60-2	106568	107055	105561	106395	0.72	cps
Phosphorus	31-2	17624	16803	17096	17174	2.42	cps
Potassium	39-2	995747	987481	988028	990419	0.47	cps
Rhodium	103-1	8180005	8196462	8020767	8132411	1.19	cps
Rhodium	103-2	5352330	5371261	5293642	5339078	0.76	cps
Scandium	45-1	4282917	4248484	4210170	4247190	0.86	cps
Scandium	45-2	497612	488990	493824	493475	0.88	cps
Selenium	82-1	1075	1033	1007	1038	3.35	cps
Selenium	77-2	290	313	333	312	6.95	cps
Selenium	78-2	937	1067	1003	1002	6.49	cps
Silicon	28-1	9685445	9677965	9621184	9661531	0.36	cps
Silver	107-1	6165	6278	6291	6245	1.12	cps
Silver	109-1	5928	5811	5761	5833	1.47	cps
Sodium	23-2	1395322	1401122	1401427	1399290	0.25	cps
Strontium	86-1	719921	729730	722206	723953	0.71	cps
Strontium	88-1	6445844	6481273	6431602	6452906	0.40	cps
Sulfur	34-1	353077	358953	359503	357178	1.00	cps
Terbium	159-1	12346948	12345933	12190422	12294434	0.73	cps
Terbium	159-2	8822430	8788011	8745256	8785232	0.44	cps
Thallium	203-1	7369	6992	7139	7166	2.65	cps
Thallium	205-1	17274	17238	17278	17263	0.13	cps
Tin	118-1	26464	26581	25252	26099	2.82	cps
Titanium	47-1	588481	587244	587967	587897	0.11	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-16	Instrumnet Name :	P7
Client Sample ID :	A6324	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:20:57	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1876644	1929306	1925820	1910590	1.54	cps
Vanadium	51-2	256332	253498	252146	253992	0.84	cps
Yttrium	89-1	16300337	16186076	16290393	16258935	0.39	cps
Yttrium	89-2	5372406	5359022	5394022	5375150	0.33	cps
Zinc	66-2	89282	88711	90831	89608	1.22	cps
Zirconium	90-1	37682	38423	38196	38100	1.00	cps
Zirconium	91-1	8536	8809	8649	8665	1.59	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11579154	11490787	11473669	11514536	0.49	cps
Antimony	121-1	4898118	4923876	4926007	4916000	0.32	cps
Arsenic	75-2	281421	284401	279942	281922	0.81	cps
Barium	135-1	6323478	6360439	6290350	6324756	0.55	cps
Barium	137-1	10797418	10954399	10839335	10863718	0.75	cps
Beryllium	9-1	476059	486203	486509	482923	1.23	cps
Bismuth	209-1	7260807	7205177	7257956	7241313	0.43	cps
Bismuth	209-2	5787255	5472245	5571664	5610388	2.87	cps
Bromine	81-1	13149	13263	13276	13229	0.53	cps
Bromine	81-2	190	167	150	169	11.90	cps
Cadmium	108-1	87505	88588	87075	87723	0.89	cps
Cadmium	106-1	129961	128868	128004	128945	0.76	cps
Cadmium	111-1	1184712	1200781	1197545	1194346	0.71	cps
Calcium	43-1	5318208	5322003	5249560	5296590	0.77	cps
Calcium	44-1	87064065	86808772	86282935	86718591	0.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2016827	2024894	2028360	2023360	0.29	cps
Cobalt	59-2	3104754	3151192	3142273	3132740	0.79	cps
Copper	63-2	19634216	19769915	19817988	19740706	0.48	cps
Dysprosium	156-1	320	340	277	312	10.37	cps
Dysprosium	156-2	613	600	570	594	3.73	cps
Erbium	164-1	390	373	400	388	3.47	cps
Erbium	164-2	290	247	327	288	13.92	cps
Gadolinium	160-1	353	367	333	351	4.78	cps
Gadolinium	160-2	560	643	637	613	7.55	cps
Holmium	165-1	11969886	11973832	11990360	11978026	0.09	cps
Holmium	165-2	8895768	8443708	8534581	8624686	2.77	cps
Indium	115-1	8377555	8311413	8347848	8345605	0.40	cps
Indium	115-2	3675125	3517043	3442026	3544731	3.36	cps
Iron	56-2	465152380	466146966	470883553	467394300	0.66	cps
Iron	57-2	11656201	11662795	11628539	11649178	0.16	cps
Iron	54-2	25129394	25032578	25446252	25202741	0.86	cps
Krypton	83-1	190	220	240	217	11.62	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20540634	20743843	20704968	20663148	0.52	cps
Lead	207-1	17994775	18281912	18604141	18293609	1.67	cps
Lead	208-1	82974747	84030084	84094145	83699658	0.75	cps
Lithium	6-1	1123960	1113220	1120271	1119150	0.49	cps
Magnesium	24-2	93700785	93604975	93287002	93530921	0.23	cps
Manganese	55-2	16525953	16505137	16743174	16591421	0.79	cps
Molybdenum	94-1	16326774	16185344	16153071	16221730	0.57	cps
Molybdenum	95-1	23422703	23155087	23263850	23280547	0.58	cps
Molybdenum	96-1	25575722	25617161	25639777	25610887	0.13	cps
Molybdenum	97-1	14546021	14508979	14476713	14510571	0.24	cps
Molybdenum	98-1	37577784	37494070	37562324	37544726	0.12	cps
Neodymium	150-1	587	593	553	578	3.71	cps
Neodymium	150-2	263	273	210	249	13.68	cps
Nickel	60-2	735508	743115	736096	738240	0.57	cps
Phosphorus	31-2	108914	109317	109058	109096	0.19	cps
Potassium	39-2	63851537	64037392	64092191	63993707	0.20	cps
Rhodium	103-1	7381304	7310949	7231716	7307989	1.02	cps
Rhodium	103-2	4881054	4651215	4634424	4722231	2.92	cps
Scandium	45-1	4108358	4068516	4029347	4068741	0.97	cps
Scandium	45-2	477790	458802	456940	464511	2.48	cps
Selenium	82-1	68367	68435	68032	68278	0.32	cps
Selenium	77-2	9423	9553	9213	9396	1.83	cps
Selenium	78-2	31774	32155	31684	31871	0.78	cps
Silicon	28-1	27885452	28284680	28033365	28067832	0.72	cps
Silver	107-1	5727909	5757997	5649676	5711860	0.98	cps
Silver	109-1	5421662	5460452	5485696	5455937	0.59	cps
Sodium	23-2	147584511	147390691	147645844	147540349	0.09	cps
Strontium	86-1	1576336	1551058	1569279	1565558	0.83	cps
Strontium	88-1	13678586	13799081	13601439	13693035	0.73	cps
Sulfur	34-1	394154	390220	386881	390418	0.93	cps
Terbium	159-1	12142091	12091261	11970788	12068047	0.73	cps
Terbium	159-2	8681039	8253937	8342884	8425953	2.67	cps
Thallium	203-1	5300744	5349762	5322775	5324427	0.46	cps
Thallium	205-1	12629599	12754324	12890657	12758193	1.02	cps
Tin	118-1	4045612	4082206	4094805	4074208	0.63	cps
Titanium	47-1	4961591	4975221	4909609	4948807	0.70	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV012	Instrumnet Name :	P7
Client Sample ID :	CCV012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:24:07	DataFile Name :	041CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17529919	17717355	17956539	17734604	1.21	cps
Vanadium	51-2	1843617	1830995	1814460	1829691	0.80	cps
Yttrium	89-1	14665263	14740236	14525636	14643711	0.74	cps
Yttrium	89-2	4878879	4621682	4643299	4714620	3.03	cps
Zinc	66-2	3746429	3782902	3748115	3759149	0.55	cps
Zirconium	90-1	7938560	8062129	8040337	8013676	0.82	cps
Zirconium	91-1	1778577	1753817	1776790	1769728	0.78	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1203	1023	1080	1102	8.35	cps
Antimony	121-1	1197	1117	990	1101	9.46	cps
Arsenic	75-2	17	27	7	17	59.99	cps
Barium	135-1	780	633	570	661	16.29	cps
Barium	137-1	1320	1097	937	1118	17.23	cps
Beryllium	9-1	130	183	137	150	19.37	cps
Bismuth	209-1	7684893	7590823	7609346	7628354	0.65	cps
Bismuth	209-2	6350594	6472948	6280375	6367972	1.53	cps
Bromine	81-1	13203	13329	13116	13216	0.81	cps
Bromine	81-2	123	143	177	148	18.23	cps
Cadmium	108-1	13	20	17	17	20.01	cps
Cadmium	106-1	4311	4584	4427	4441	3.09	cps
Cadmium	111-1	3141	3358	3188	3229	3.54	cps
Calcium	43-1	893	893	750	846	9.79	cps
Calcium	44-1	20865	18889	17561	19105	8.70	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1463	1353	1453	1423	4.27	cps
Cobalt	59-2	367	283	267	306	17.54	cps
Copper	63-2	3567	3721	3484	3590	3.34	cps
Dysprosium	156-1	33	23	10	22	52.68	cps
Dysprosium	156-2	10	3	7	7	50.03	cps
Erbium	164-1	50	50	57	52	7.37	cps
Erbium	164-2	50	37	40	42	16.43	cps
Gadolinium	160-1	40	53	47	47	14.28	cps
Gadolinium	160-2	370	427	393	397	7.18	cps
Holmium	165-1	11889974	11941654	11973546	11935058	0.35	cps
Holmium	165-2	8940985	8949373	8941443	8943934	0.05	cps
Indium	115-1	8788696	8815198	8850655	8818183	0.35	cps
Indium	115-2	4023745	3917299	3968186	3969743	1.34	cps
Iron	56-2	61696	58731	54930	58452	5.80	cps
Iron	57-2	2287	2174	2157	2206	3.21	cps
Iron	54-2	4948	4964	4727	4880	2.71	cps
Krypton	83-1	163	173	167	168	3.03	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3754	3437	2974	3388	11.58	cps
Lead	207-1	3187	2944	2590	2907	10.32	cps
Lead	208-1	14560	13563	11972	13365	9.77	cps
Lithium	6-1	1186050	1159252	1149890	1165064	1.61	cps
Magnesium	24-2	7409	6698	5985	6697	10.63	cps
Manganese	55-2	1543	1517	1537	1532	0.91	cps
Molybdenum	94-1	2404	2104	1987	2165	9.93	cps
Molybdenum	95-1	2934	2697	2204	2611	14.27	cps
Molybdenum	96-1	3357	2864	2714	2978	11.30	cps
Molybdenum	97-1	1873	1750	1477	1700	11.94	cps
Molybdenum	98-1	4797	4381	3751	4310	12.23	cps
Neodymium	150-1	17	10	13	13	25.01	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	3130	2914	2994	3013	3.64	cps
Phosphorus	31-2	273	263	277	271	2.56	cps
Potassium	39-2	62605	61912	61658	62058	0.79	cps
Rhodium	103-1	8069261	8101562	7995397	8055406	0.68	cps
Rhodium	103-2	5392438	5399526	5418071	5403345	0.24	cps
Scandium	45-1	4152264	4071922	4137717	4120634	1.04	cps
Scandium	45-2	488713	490951	483797	487820	0.75	cps
Selenium	82-1	384	321	367	357	9.15	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	520	570	543	544	4.60	cps
Silicon	28-1	610129	603868	609780	607925	0.58	cps
Silver	107-1	963	917	827	902	7.70	cps
Silver	109-1	893	817	670	793	14.30	cps
Sodium	23-2	49031	46690	45621	47114	3.70	cps
Strontium	86-1	527	537	480	514	5.88	cps
Strontium	88-1	1890	1763	1560	1738	9.58	cps
Sulfur	34-1	120883	120618	121670	121057	0.45	cps
Terbium	159-1	11934342	12161356	12070156	12055284	0.95	cps
Terbium	159-2	8924689	8817379	8789194	8843754	0.81	cps
Thallium	203-1	1173	1040	873	1029	14.61	cps
Thallium	205-1	2800	2460	2140	2467	13.38	cps
Tin	118-1	1840	1877	1900	1872	1.62	cps
Titanium	47-1	617	567	493	559	11.10	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB012	Instrumnet Name :	P7
Client Sample ID :	CCB012	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:29:40	DataFile Name :	042CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	2050	1567	1423	1680	19.55	cps
Vanadium	51-2	150	133	123	136	9.94	cps
Yttrium	89-1	14831739	14864229	14872347	14856105	0.14	cps
Yttrium	89-2	4997101	5016060	5015506	5009556	0.22	cps
Zinc	66-2	870	740	830	813	8.19	cps
Zirconium	90-1	1720	1807	1747	1758	2.53	cps
Zirconium	91-1	367	340	387	364	6.42	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2346763	2315509	2314297	2325523	0.79	cps
Antimony	121-1	615570	632331	642645	630182	2.17	cps
Arsenic	75-2	254184	254977	254673	254612	0.16	cps
Barium	135-1	2204699	2204347	2235667	2214904	0.81	cps
Barium	137-1	3753265	3787812	3770418	3770498	0.46	cps
Beryllium	9-1	379871	386402	387249	384507	1.05	cps
Bismuth	209-1	7942296	7811618	7865749	7873221	0.83	cps
Bismuth	209-2	6369200	6299272	6286972	6318482	0.70	cps
Bromine	81-1	15458	16179	16886	16175	4.42	cps
Bromine	81-2	997	1043	1007	1016	2.42	cps
Cadmium	108-1	42288	42301	42836	42475	0.74	cps
Cadmium	106-1	62885	64322	64264	63824	1.27	cps
Cadmium	111-1	638926	651563	649662	646717	1.05	cps
Calcium	43-1	291804	292952	295700	293486	0.68	cps
Calcium	44-1	4534379	4613792	4617372	4588514	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2370479	2337407	2381831	2363239	0.98	cps
Cobalt	59-2	2644841	2674495	2638177	2652504	0.73	cps
Copper	63-2	1254236	1251991	1253873	1253366	0.10	cps
Dysprosium	156-1	47303	48436	49028	48256	1.82	cps
Dysprosium	156-2	46607	47895	47834	47445	1.53	cps
Erbium	164-1	37179	37731	37748	37553	0.86	cps
Erbium	164-2	28215	28399	28001	28205	0.71	cps
Gadolinium	160-1	43073	43544	44066	43561	1.14	cps
Gadolinium	160-2	34142	34279	35024	34481	1.38	cps
Holmium	165-1	12119607	12155084	11994172	12089621	0.70	cps
Holmium	165-2	9207963	8985040	9060815	9084606	1.25	cps
Indium	115-1	9023641	8914724	8918866	8952411	0.69	cps
Indium	115-2	3916657	3936313	3961201	3938057	0.57	cps
Iron	56-2	43682533	43292724	43310976	43428744	0.51	cps
Iron	57-2	1100752	1093503	1099063	1097773	0.35	cps
Iron	54-2	2410971	2424085	2425363	2420140	0.33	cps
Krypton	83-1	253	147	180	193	28.23	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3192466	3227058	3221293	3213606	0.58	cps
Lead	207-1	2703358	2703221	2676222	2694267	0.58	cps
Lead	208-1	12453842	12598737	12589598	12547392	0.65	cps
Lithium	6-1	1250786	1257587	1231666	1246680	1.08	cps
Magnesium	24-2	1356809	1367517	1360527	1361618	0.40	cps
Manganese	55-2	3355011	3365272	3406859	3375714	0.81	cps
Molybdenum	94-1	364551	377187	376268	372669	1.89	cps
Molybdenum	95-1	494117	503541	505853	501170	1.24	cps
Molybdenum	96-1	545850	552573	553524	550649	0.76	cps
Molybdenum	97-1	310214	314167	315893	313425	0.93	cps
Molybdenum	98-1	793173	809786	815327	806095	1.43	cps
Neodymium	150-1	87821	89186	88898	88635	0.81	cps
Neodymium	150-2	60054	59977	59652	59894	0.36	cps
Nickel	60-2	422504	421154	421133	421597	0.19	cps
Phosphorus	31-2	6165	6235	6551	6317	3.26	cps
Potassium	39-2	1555609	1514632	1515506	1528582	1.53	cps
Rhodium	103-1	8210323	8053734	7994941	8086333	1.38	cps
Rhodium	103-2	5354208	5368261	5365875	5362781	0.14	cps
Scandium	45-1	4286840	4193647	4265974	4248820	1.15	cps
Scandium	45-2	495913	492482	495801	494732	0.39	cps
Selenium	82-1	32824	33521	33866	33404	1.59	cps
Selenium	77-2	4814	4631	4617	4687	2.35	cps
Selenium	78-2	15892	16406	16222	16173	1.61	cps
Silicon	28-1	7378862	7313029	7376969	7356286	0.51	cps
Silver	107-1	973711	992727	1002722	989720	1.49	cps
Silver	109-1	916481	929918	942712	929704	1.41	cps
Sodium	23-2	673109	671168	665598	669958	0.58	cps
Strontium	86-1	1609704	1619339	1625945	1618329	0.50	cps
Strontium	88-1	14018381	14229997	14189569	14145983	0.79	cps
Sulfur	34-1	121801	118646	117232	119226	1.96	cps
Terbium	159-1	12478499	12296175	12274919	12349864	0.91	cps
Terbium	159-2	8978973	8784857	8926604	8896812	1.13	cps
Thallium	203-1	4462369	4563964	4571939	4532758	1.35	cps
Thallium	205-1	10797441	10782123	10924512	10834692	0.72	cps
Tin	118-1	631750	645881	646388	641340	1.30	cps
Titanium	47-1	459956	467043	474449	467149	1.55	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-01	Instrumnet Name :	P7
Client Sample ID :	A6313	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:32:55	DataFile Name :	043SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	14909612	14876595	15303770	15029992	1.58	cps
Vanadium	51-2	1000905	1000767	1004997	1002223	0.24	cps
Yttrium	89-1	15939231	15581028	15419573	15646610	1.70	cps
Yttrium	89-2	5197811	5115453	5221058	5178107	1.07	cps
Zinc	66-2	717651	713586	711351	714196	0.45	cps
Zirconium	90-1	230897	236849	238408	235385	1.68	cps
Zirconium	91-1	52109	53052	52062	52408	1.07	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2501994	2496629	2510900	2503174	0.29	cps
Antimony	121-1	507203	520112	522437	516584	1.59	cps
Arsenic	75-2	212939	209483	210386	210936	0.85	cps
Barium	135-1	2029708	2070155	2068992	2056285	1.12	cps
Barium	137-1	3505172	3567504	3569991	3547556	1.04	cps
Beryllium	9-1	295471	303772	305989	301744	1.84	cps
Bismuth	209-1	8571672	7807976	7786269	8055305	5.55	cps
Bismuth	209-2	6305037	6375173	6327743	6335984	0.56	cps
Bromine	81-1	15411	15835	16513	15920	3.49	cps
Bromine	81-2	820	953	970	914	8.99	cps
Cadmium	108-1	50959	51213	51688	51287	0.72	cps
Cadmium	106-1	74747	76185	76158	75697	1.09	cps
Cadmium	111-1	765678	788338	784123	779380	1.55	cps
Calcium	43-1	278494	285294	283931	282573	1.27	cps
Calcium	44-1	4363192	4454493	4502784	4440156	1.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1570015	1532379	1555681	1552692	1.22	cps
Cobalt	59-2	2434320	2468038	2494466	2465608	1.22	cps
Copper	63-2	2671953	2650800	2618844	2647199	1.01	cps
Dysprosium	156-1	49664	51675	50731	50690	1.98	cps
Dysprosium	156-2	50798	50179	49768	50248	1.03	cps
Erbium	164-1	38232	38536	38964	38578	0.95	cps
Erbium	164-2	29354	29681	29114	29383	0.97	cps
Gadolinium	160-1	44126	45868	46089	45361	2.37	cps
Gadolinium	160-2	36628	37323	36454	36802	1.25	cps
Holmium	165-1	13313770	12188024	12055098	12518964	5.52	cps
Holmium	165-2	9059824	9102087	8969484	9043798	0.75	cps
Indium	115-1	9906952	8888360	8816409	9203907	6.63	cps
Indium	115-2	3951447	3945345	3931645	3942812	0.26	cps
Iron	56-2	46945363	47127761	46993648	47022257	0.20	cps
Iron	57-2	1195424	1196183	1197497	1196368	0.09	cps
Iron	54-2	2654851	2604024	2612118	2623664	1.04	cps
Krypton	83-1	213	233	313	253	20.89	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	5126181	5215962	5147070	5163071	0.91	cps
Lead	207-1	4208094	4332952	4352156	4297734	1.82	cps
Lead	208-1	19653880	20203933	20235274	20031029	1.63	cps
Lithium	6-1	1366710	1243092	1260356	1290053	5.19	cps
Magnesium	24-2	1490826	1485585	1471103	1482505	0.69	cps
Manganese	55-2	3697239	3663839	3663530	3674869	0.53	cps
Molybdenum	94-1	775228	799743	807155	794042	2.10	cps
Molybdenum	95-1	1199663	1233257	1243310	1225410	1.87	cps
Molybdenum	96-1	1314188	1345002	1354675	1337955	1.58	cps
Molybdenum	97-1	762646	782574	784266	776495	1.55	cps
Molybdenum	98-1	1994167	2047216	2040165	2027183	1.42	cps
Neodymium	150-1	91309	93564	94483	93119	1.75	cps
Neodymium	150-2	63151	62123	61958	62411	1.04	cps
Nickel	60-2	690427	686438	689114	688660	0.30	cps
Phosphorus	31-2	7115	7115	7012	7081	0.84	cps
Potassium	39-2	1560113	1549960	1573491	1561188	0.76	cps
Rhodium	103-1	8993286	8126949	8029188	8383141	6.33	cps
Rhodium	103-2	5318662	5318679	5377999	5338446	0.64	cps
Scandium	45-1	4703785	4275657	4235241	4404894	5.89	cps
Scandium	45-2	499643	497434	498432	498503	0.22	cps
Selenium	82-1	57317	59398	60010	58908	2.40	cps
Selenium	77-2	8516	8189	8459	8388	2.08	cps
Selenium	78-2	28327	28033	27903	28088	0.77	cps
Silicon	28-1	4498297	4676985	4594727	4590003	1.95	cps
Silver	107-1	963368	993460	987418	981416	1.62	cps
Silver	109-1	913761	941615	940017	931798	1.68	cps
Sodium	23-2	687125	682494	681396	683672	0.44	cps
Strontium	86-1	682765	706157	705675	698199	1.91	cps
Strontium	88-1	6180614	6320434	6298392	6266480	1.20	cps
Sulfur	34-1	115422	114129	114828	114793	0.56	cps
Terbium	159-1	13461025	12329861	12120966	12637284	5.71	cps
Terbium	159-2	8895791	8747547	8761367	8801568	0.93	cps
Thallium	203-1	2588615	2620762	2589549	2599642	0.70	cps
Thallium	205-1	6251484	6383752	6279354	6304864	1.11	cps
Tin	118-1	877766	896639	900220	891542	1.35	cps
Titanium	47-1	617040	639873	633680	630198	1.87	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-02	Instrumnet Name :	P7
Client Sample ID :	A6314	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:35:54	DataFile Name :	044SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	4985455	5042362	5022029	5016615	0.57	cps
Vanadium	51-2	1468466	1447566	1466777	1460936	0.79	cps
Yttrium	89-1	17142922	15709161	15500153	16117412	5.55	cps
Yttrium	89-2	5073883	5171679	5196165	5147242	1.26	cps
Zinc	66-2	398657	400916	394248	397941	0.85	cps
Zirconium	90-1	246076	255564	255888	252509	2.21	cps
Zirconium	91-1	55943	57703	57063	56903	1.57	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5176297	5247560	5178217	5200691	0.78	cps
Antimony	121-1	7589	6888	7145	7207	4.92	cps
Arsenic	75-2	5164	4938	4974	5025	2.42	cps
Barium	135-1	353086	357226	357492	355935	0.69	cps
Barium	137-1	609211	621322	622438	617657	1.19	cps
Beryllium	9-1	3454	3447	3617	3506	2.75	cps
Bismuth	209-1	7660044	7748994	7809037	7739358	0.97	cps
Bismuth	209-2	6446621	6430138	6391490	6422750	0.44	cps
Bromine	81-1	31584	34407	34741	33577	5.17	cps
Bromine	81-2	5528	5785	6051	5788	4.52	cps
Cadmium	108-1	210	237	133	193	27.75	cps
Cadmium	106-1	5391	5568	5418	5459	1.75	cps
Cadmium	111-1	5890	5802	5803	5832	0.87	cps
Calcium	43-1	405479	411339	413823	410214	1.04	cps
Calcium	44-1	6412302	6507776	6540384	6486821	1.03	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	180891	180344	181397	180878	0.29	cps
Cobalt	59-2	26958	26099	26233	26430	1.75	cps
Copper	63-2	203808	201487	203545	202947	0.63	cps
Dysprosium	156-1	68680	69146	70553	69459	1.40	cps
Dysprosium	156-2	72063	73096	72352	72504	0.73	cps
Erbium	164-1	63832	65948	64933	64904	1.63	cps
Erbium	164-2	49491	49849	49624	49655	0.36	cps
Gadolinium	160-1	64953	66125	66590	65889	1.28	cps
Gadolinium	160-2	53455	52511	52140	52702	1.29	cps
Holmium	165-1	12163471	12184440	12186442	12178118	0.10	cps
Holmium	165-2	9358503	9235013	9226644	9273387	0.80	cps
Indium	115-1	8887832	8935887	9009934	8944551	0.69	cps
Indium	115-2	4062287	3976931	4047045	4028754	1.13	cps
Iron	56-2	49448088	48472884	47932501	48617824	1.58	cps
Iron	57-2	1249350	1236111	1241235	1242232	0.54	cps
Iron	54-2	2655673	2650104	2658882	2654886	0.17	cps
Krypton	83-1	280	250	330	287	14.10	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1515819	1549352	1560203	1541791	1.50	cps
Lead	207-1	1262904	1295656	1306691	1288417	1.77	cps
Lead	208-1	6135251	6339403	6342969	6272541	1.90	cps
Lithium	6-1	1208970	1195103	1205079	1203051	0.59	cps
Magnesium	24-2	799535	799445	799165	799382	0.02	cps
Manganese	55-2	594643	590077	597219	593980	0.61	cps
Molybdenum	94-1	12335	12198	11735	12089	2.60	cps
Molybdenum	95-1	9510	9453	9053	9339	2.67	cps
Molybdenum	96-1	12229	11885	11802	11972	1.89	cps
Molybdenum	97-1	5745	6141	5795	5893	3.67	cps
Molybdenum	98-1	14778	15248	14931	14986	1.60	cps
Neodymium	150-1	122900	123882	124789	123857	0.76	cps
Neodymium	150-2	85239	85588	84192	85006	0.85	cps
Nickel	60-2	33274	32896	33030	33066	0.58	cps
Phosphorus	31-2	25915	25288	25081	25428	1.71	cps
Potassium	39-2	641910	630213	637953	636692	0.93	cps
Rhodium	103-1	8119878	8152758	8156899	8143178	0.25	cps
Rhodium	103-2	5488234	5449880	5528149	5488754	0.71	cps
Scandium	45-1	4267851	4300770	4259920	4276180	0.51	cps
Scandium	45-2	512375	511630	509132	511046	0.33	cps
Selenium	82-1	909	966	828	901	7.70	cps
Selenium	77-2	353	207	290	283	25.96	cps
Selenium	78-2	983	843	883	903	7.98	cps
Silicon	28-1	4026064	4114922	4843742	4328243	10.37	cps
Silver	107-1	4671	4651	4584	4635	0.98	cps
Silver	109-1	4564	4494	4117	4392	5.47	cps
Sodium	23-2	305949	304977	305018	305315	0.18	cps
Strontium	86-1	455411	462872	464124	460802	1.02	cps
Strontium	88-1	4073205	4171020	4208780	4151002	1.69	cps
Sulfur	34-1	246385	252195	251524	250034	1.27	cps
Terbium	159-1	12184189	12333841	12505876	12341302	1.30	cps
Terbium	159-2	9087580	9050627	8885858	9008022	1.19	cps
Thallium	203-1	5951	5728	5268	5649	6.17	cps
Thallium	205-1	14595	13143	12469	13402	8.10	cps
Tin	118-1	8756	8416	8643	8605	2.01	cps
Titanium	47-1	129848	132544	132557	131650	1.19	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-03	Instrumnet Name :	P7
Client Sample ID :	A6325	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:38:50	DataFile Name :	045SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	334449	340992	341723	339054	1.18	cps
Vanadium	51-2	115135	115471	115373	115326	0.15	cps
Yttrium	89-1	15888483	15921968	15943389	15917946	0.17	cps
Yttrium	89-2	5437320	5391903	5413878	5414367	0.42	cps
Zinc	66-2	83639	83120	83341	83366	0.31	cps
Zirconium	90-1	17814	17938	17747	17833	0.54	cps
Zirconium	91-1	4181	3764	3981	3975	5.25	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1390477	1389215	1419354	1399682	1.22	cps
Antimony	121-1	747	730	793	757	4.34	cps
Arsenic	75-2	827	880	883	863	3.68	cps
Barium	135-1	100176	99679	99041	99632	0.57	cps
Barium	137-1	172887	174340	174323	173850	0.48	cps
Beryllium	9-1	983	913	983	960	4.21	cps
Bismuth	209-1	7397147	7473152	7584434	7484911	1.26	cps
Bismuth	209-2	6298856	6286077	6308096	6297676	0.18	cps
Bromine	81-1	16559	15672	16106	16112	2.75	cps
Bromine	81-2	647	710	640	666	5.80	cps
Cadmium	108-1	77	63	63	68	11.36	cps
Cadmium	106-1	5034	4767	4964	4922	2.81	cps
Cadmium	111-1	4087	3993	4197	4092	2.50	cps
Calcium	43-1	51390	52059	52159	51869	0.81	cps
Calcium	44-1	849823	860765	863718	858102	0.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	79421	78989	79414	79275	0.31	cps
Cobalt	59-2	12579	12779	12956	12771	1.48	cps
Copper	63-2	20227	20023	20387	20213	0.90	cps
Dysprosium	156-1	19781	20161	20395	20112	1.54	cps
Dysprosium	156-2	19257	19691	19450	19466	1.12	cps
Erbium	164-1	17247	17204	17101	17184	0.44	cps
Erbium	164-2	12926	13296	13166	13130	1.43	cps
Gadolinium	160-1	20261	20435	20352	20349	0.43	cps
Gadolinium	160-2	16023	15672	16857	16184	3.76	cps
Holmium	165-1	11626047	11850380	11801312	11759246	1.00	cps
Holmium	165-2	9056450	8936086	8948019	8980185	0.74	cps
Indium	115-1	8684066	8795968	8852554	8777529	0.98	cps
Indium	115-2	3997613	3973567	3979097	3983426	0.32	cps
Iron	56-2	10340958	10397954	10118830	10285914	1.43	cps
Iron	57-2	264455	264170	261790	263472	0.56	cps
Iron	54-2	579961	575676	577177	577605	0.38	cps
Krypton	83-1	213	193	220	209	6.64	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	106086	106244	107276	106535	0.61	cps
Lead	207-1	88519	87479	88629	88209	0.72	cps
Lead	208-1	410320	410736	414875	411977	0.61	cps
Lithium	6-1	1141510	1187186	1171733	1166810	1.99	cps
Magnesium	24-2	243876	247883	244157	245305	0.91	cps
Manganese	55-2	439720	439220	437466	438802	0.27	cps
Molybdenum	94-1	3044	3397	3354	3265	5.90	cps
Molybdenum	95-1	3280	3184	3117	3194	2.57	cps
Molybdenum	96-1	4007	3791	4021	3939	3.28	cps
Molybdenum	97-1	1903	2030	2020	1985	3.55	cps
Molybdenum	98-1	5134	5088	5221	5148	1.31	cps
Neodymium	150-1	35635	35678	37062	36125	2.25	cps
Neodymium	150-2	23964	24284	24207	24152	0.69	cps
Nickel	60-2	16656	16659	16903	16739	0.85	cps
Phosphorus	31-2	6115	6275	6085	6158	1.66	cps
Potassium	39-2	303632	304014	300183	302610	0.70	cps
Rhodium	103-1	7828281	8063384	8103246	7998303	1.86	cps
Rhodium	103-2	5426879	5416650	5398877	5414135	0.26	cps
Scandium	45-1	4095465	4173677	4240160	4169768	1.74	cps
Scandium	45-2	500212	498276	495830	498106	0.44	cps
Selenium	82-1	626	709	723	686	7.64	cps
Selenium	77-2	90	93	110	98	10.96	cps
Selenium	78-2	670	793	670	711	10.01	cps
Silicon	28-1	3457308	3523634	3530647	3503863	1.16	cps
Silver	107-1	1587	1700	1590	1626	3.97	cps
Silver	109-1	1503	1557	1473	1511	2.79	cps
Sodium	23-2	70792	71321	69761	70624	1.12	cps
Strontium	86-1	42949	43548	42722	43073	0.99	cps
Strontium	88-1	370875	374392	382262	375843	1.55	cps
Sulfur	34-1	130330	128182	127953	128822	1.02	cps
Terbium	159-1	11770437	11882724	11934868	11862676	0.71	cps
Terbium	159-2	8848229	8766193	8779412	8797945	0.50	cps
Thallium	203-1	1197	1360	1273	1277	6.40	cps
Thallium	205-1	3310	3197	3077	3195	3.65	cps
Tin	118-1	3627	3637	3470	3578	2.61	cps
Titanium	47-1	61451	61986	62769	62069	1.07	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-04	Instrumnet Name :	P7
Client Sample ID :	A6326	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:42:03	DataFile Name :	046SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	144860	146762	144685	145436	0.79	cps
Vanadium	51-2	19923	20400	20357	20227	1.30	cps
Yttrium	89-1	14664578	15095978	15381752	15047436	2.40	cps
Yttrium	89-2	5159730	5086420	5118698	5121616	0.72	cps
Zinc	66-2	18962	18368	18845	18725	1.68	cps
Zirconium	90-1	4181	8414	4197	5597	43.58	cps
Zirconium	91-1	900	993	917	937	5.31	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6135848	6217039	6269795	6207561	1.09	cps
Antimony	121-1	9503	9773	9690	9656	1.43	cps
Arsenic	75-2	32686	31213	31868	31922	2.31	cps
Barium	135-1	341747	348868	347085	345900	1.07	cps
Barium	137-1	588392	602970	601710	597691	1.35	cps
Beryllium	9-1	2064	2083	2063	2070	0.56	cps
Bismuth	209-1	7720586	7624601	7692115	7679101	0.64	cps
Bismuth	209-2	6432906	6393529	6272383	6366273	1.31	cps
Bromine	81-1	51520	58699	60426	56882	8.30	cps
Bromine	81-2	12305	12562	12389	12419	1.06	cps
Cadmium	108-1	400	473	427	433	8.57	cps
Cadmium	106-1	6228	5908	5881	6006	3.21	cps
Cadmium	111-1	8480	8215	8246	8314	1.75	cps
Calcium	43-1	935508	947889	952546	945315	0.93	cps
Calcium	44-1	14791544	15052680	15086679	14976968	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	232184	231856	231138	231726	0.23	cps
Cobalt	59-2	127603	127922	126625	127384	0.53	cps
Copper	63-2	155643	155306	152925	154625	0.96	cps
Dysprosium	156-1	73092	74234	74386	73904	0.96	cps
Dysprosium	156-2	73209	73196	73668	73358	0.37	cps
Erbium	164-1	68688	70808	69957	69818	1.53	cps
Erbium	164-2	53883	53987	52391	53421	1.67	cps
Gadolinium	160-1	72818	75033	75595	74482	1.97	cps
Gadolinium	160-2	60958	59583	60359	60300	1.14	cps
Holmium	165-1	12334676	12226913	12122714	12228101	0.87	cps
Holmium	165-2	9305680	9257527	9200471	9254559	0.57	cps
Indium	115-1	9170939	9037669	9007051	9071886	0.96	cps
Indium	115-2	4048119	4032259	4091045	4057141	0.75	cps
Iron	56-2	180228004	181335164	180005897	180523022	0.39	cps
Iron	57-2	4492755	4507153	4487388	4495765	0.23	cps
Iron	54-2	9758105	9831508	9897304	9828972	0.71	cps
Krypton	83-1	287	280	297	288	2.91	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	807648	825035	830299	820994	1.44	cps
Lead	207-1	674727	688754	686609	683363	1.11	cps
Lead	208-1	3136441	3197265	3219093	3184266	1.35	cps
Lithium	6-1	1251395	1228917	1238852	1239721	0.91	cps
Magnesium	24-2	3511220	3595908	3570038	3559055	1.22	cps
Manganese	55-2	2823221	2869049	2870473	2854248	0.94	cps
Molybdenum	94-1	45731	47069	46132	46311	1.48	cps
Molybdenum	95-1	6245	6368	6385	6333	1.21	cps
Molybdenum	96-1	16109	16029	15785	15974	1.06	cps
Molybdenum	97-1	3847	4044	3901	3931	2.59	cps
Molybdenum	98-1	9847	9890	10157	9965	1.69	cps
Neodymium	150-1	123209	126104	126807	125373	1.52	cps
Neodymium	150-2	83525	84628	84913	84356	0.87	cps
Nickel	60-2	96098	97638	96548	96762	0.82	cps
Phosphorus	31-2	23939	24246	23582	23922	1.39	cps
Potassium	39-2	1111485	1108938	1110789	1110404	0.12	cps
Rhodium	103-1	8480025	8238553	8193234	8303937	1.86	cps
Rhodium	103-2	5445073	5478479	5464583	5462712	0.31	cps
Scandium	45-1	4580546	4446880	4452514	4493313	1.68	cps
Scandium	45-2	522675	522885	523539	523033	0.09	cps
Selenium	82-1	1264	1309	1347	1307	3.17	cps
Selenium	77-2	293	330	323	316	6.19	cps
Selenium	78-2	1160	1113	1130	1135	2.08	cps
Silicon	28-1	4775042	4894124	4842342	4837169	1.23	cps
Silver	107-1	7259	7529	7352	7380	1.86	cps
Silver	109-1	7022	7242	7162	7142	1.56	cps
Sodium	23-2	182298	183169	183587	183018	0.36	cps
Strontium	86-1	499282	510200	510383	506622	1.25	cps
Strontium	88-1	4491255	4540590	4599168	4543671	1.19	cps
Sulfur	34-1	381015	388075	388565	385885	1.09	cps
Terbium	159-1	12658984	12417643	12456211	12510946	1.04	cps
Terbium	159-2	9168246	9052016	9048655	9089639	0.75	cps
Thallium	203-1	4064	4031	4234	4110	2.65	cps
Thallium	205-1	9717	9774	9774	9755	0.34	cps
Tin	118-1	6975	7272	7058	7102	2.16	cps
Titanium	47-1	748904	768319	770405	762543	1.55	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-05	Instrumnet Name :	P7
Client Sample ID :	A6331	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:45:17	DataFile Name :	047SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	306544	313155	314828	311509	1.41	cps
Vanadium	51-2	240504	240771	242749	241341	0.51	cps
Yttrium	89-1	16597441	16376777	16333772	16435997	0.86	cps
Yttrium	89-2	5530111	5480732	5521503	5510782	0.48	cps
Zinc	66-2	175636	177160	175707	176168	0.49	cps
Zirconium	90-1	113709	115960	116141	115270	1.18	cps
Zirconium	91-1	25272	26450	25920	25881	2.28	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3243876	3208251	3189839	3213989	0.85	cps
Antimony	121-1	1470	1377	1653	1500	9.38	cps
Arsenic	75-2	14030	13983	14023	14012	0.18	cps
Barium	135-1	108257	109510	110527	109432	1.04	cps
Barium	137-1	186988	190163	192008	189720	1.34	cps
Beryllium	9-1	763	697	767	742	5.32	cps
Bismuth	209-1	7524371	7457543	7522955	7501623	0.51	cps
Bismuth	209-2	6307847	6248886	6218043	6258259	0.73	cps
Bromine	81-1	20518	20297	20785	20533	1.19	cps
Bromine	81-2	1630	1623	1777	1677	5.17	cps
Cadmium	108-1	90	53	137	93	44.75	cps
Cadmium	106-1	5258	5084	4978	5107	2.77	cps
Cadmium	111-1	4227	4175	4029	4144	2.49	cps
Calcium	43-1	103278	105513	105020	104604	1.12	cps
Calcium	44-1	1633978	1673881	1665746	1657869	1.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	144151	142543	144386	143693	0.70	cps
Cobalt	59-2	58212	57841	56978	57677	1.10	cps
Copper	63-2	45017	44339	43827	44394	1.34	cps
Dysprosium	156-1	31950	32588	32651	32396	1.20	cps
Dysprosium	156-2	32173	31709	31619	31834	0.93	cps
Erbium	164-1	28008	28345	27253	27869	2.01	cps
Erbium	164-2	21149	20932	21587	21223	1.57	cps
Gadolinium	160-1	31091	30720	31165	30992	0.77	cps
Gadolinium	160-2	25527	24899	25607	25344	1.53	cps
Holmium	165-1	11978350	11775768	11908504	11887541	0.87	cps
Holmium	165-2	9102087	9019792	8996649	9039509	0.61	cps
Indium	115-1	9045287	8938237	8889454	8957659	0.89	cps
Indium	115-2	4030272	4006266	4030086	4022208	0.34	cps
Iron	56-2	63822497	63349246	63356826	63509523	0.43	cps
Iron	57-2	1586721	1572354	1550839	1569972	1.15	cps
Iron	54-2	3422088	3492524	3401155	3438589	1.39	cps
Krypton	83-1	210	230	210	217	5.33	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	232662	234689	234488	233946	0.48	cps
Lead	207-1	193443	195912	194678	194678	0.63	cps
Lead	208-1	901995	908724	913569	908096	0.64	cps
Lithium	6-1	1194886	1207715	1198789	1200463	0.55	cps
Magnesium	24-2	1604399	1604876	1572668	1593981	1.16	cps
Manganese	55-2	1018216	1021302	1017024	1018847	0.22	cps
Molybdenum	94-1	17554	17324	17027	17301	1.53	cps
Molybdenum	95-1	3574	3774	3594	3647	3.02	cps
Molybdenum	96-1	7032	7745	7115	7297	5.35	cps
Molybdenum	97-1	2274	2104	2190	2189	3.88	cps
Molybdenum	98-1	5931	5968	5975	5958	0.39	cps
Neodymium	150-1	54779	54883	55693	55118	0.91	cps
Neodymium	150-2	38579	38713	37911	38401	1.12	cps
Nickel	60-2	46241	46980	47227	46816	1.10	cps
Phosphorus	31-2	6658	6705	6785	6716	0.95	cps
Potassium	39-2	283981	283676	283123	283593	0.15	cps
Rhodium	103-1	8265256	8178988	8222815	8222353	0.52	cps
Rhodium	103-2	5425002	5444547	5444652	5438067	0.21	cps
Scandium	45-1	4438598	4339169	4361045	4379604	1.19	cps
Scandium	45-2	520312	515832	520393	518846	0.50	cps
Selenium	82-1	585	493	554	544	8.56	cps
Selenium	77-2	117	80	97	98	18.78	cps
Selenium	78-2	733	710	620	688	8.70	cps
Silicon	28-1	4179262	4201166	4261347	4213925	1.01	cps
Silver	107-1	2054	2237	2290	2194	5.66	cps
Silver	109-1	1917	2010	2184	2037	6.64	cps
Sodium	23-2	84959	85388	85190	85179	0.25	cps
Strontium	86-1	79211	80374	79329	79638	0.80	cps
Strontium	88-1	695087	706352	706785	702741	0.94	cps
Sulfur	34-1	151849	148368	145976	148731	1.99	cps
Terbium	159-1	12176846	12051830	12030442	12086373	0.65	cps
Terbium	159-2	8937307	8837207	8811745	8862087	0.75	cps
Thallium	203-1	1560	1580	1607	1582	1.48	cps
Thallium	205-1	3857	3814	3714	3795	1.94	cps
Tin	118-1	3144	3150	2900	3065	4.65	cps
Titanium	47-1	439275	447612	447887	444924	1.10	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-06	Instrumnet Name :	P7
Client Sample ID :	A6332	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:48:29	DataFile Name :	048SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	193862	196598	198057	196172	1.09	cps
Vanadium	51-2	103230	105032	104861	104374	0.95	cps
Yttrium	89-1	15770164	15538381	15574474	15627673	0.80	cps
Yttrium	89-2	5287538	5249896	5344611	5294015	0.90	cps
Zinc	66-2	42901	42948	43313	43054	0.52	cps
Zirconium	90-1	41676	40833	41926	41478	1.38	cps
Zirconium	91-1	8956	9300	9623	9293	3.59	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10864658	10932462	10748551	10848557	0.86	cps
Antimony	121-1	7695	7795	7909	7800	1.37	cps
Arsenic	75-2	52616	51532	51830	51993	1.08	cps
Barium	135-1	419453	432834	436604	429630	2.10	cps
Barium	137-1	728877	747244	755881	744001	1.85	cps
Beryllium	9-1	2627	2784	2647	2686	3.18	cps
Bismuth	209-1	7857737	7642957	7507846	7669513	2.30	cps
Bismuth	209-2	6341770	6295047	6326057	6320958	0.38	cps
Bromine	81-1	30799	34711	35693	33734	7.68	cps
Bromine	81-2	5484	5478	5584	5516	1.08	cps
Cadmium	108-1	433	430	507	457	9.49	cps
Cadmium	106-1	6215	6331	6278	6275	0.93	cps
Cadmium	111-1	8241	8542	8784	8522	3.19	cps
Calcium	43-1	503801	522854	523634	516763	2.17	cps
Calcium	44-1	7954848	8144000	8280796	8126548	2.01	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	436336	438178	441280	438598	0.57	cps
Cobalt	59-2	212834	211195	213476	212501	0.55	cps
Copper	63-2	175125	176042	175037	175401	0.32	cps
Dysprosium	156-1	136334	140562	143939	140278	2.72	cps
Dysprosium	156-2	141704	139818	140754	140759	0.67	cps
Erbium	164-1	118302	121139	122894	120778	1.92	cps
Erbium	164-2	92973	93332	91524	92610	1.03	cps
Gadolinium	160-1	136596	141688	141435	139906	2.05	cps
Gadolinium	160-2	111593	112131	114103	112609	1.17	cps
Holmium	165-1	12925896	12421546	12341500	12562981	2.52	cps
Holmium	165-2	9374135	9349296	9260214	9327882	0.64	cps
Indium	115-1	9576021	9293941	9106054	9325339	2.54	cps
Indium	115-2	4086291	4075331	4061996	4074539	0.30	cps
Iron	56-2	247887496	245949290	246441476	246759421	0.41	cps
Iron	57-2	6072786	6068415	6050275	6063825	0.20	cps
Iron	54-2	13406000	13407749	13374965	13396238	0.14	cps
Krypton	83-1	253	360	290	301	18.00	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1212635	1249506	1256679	1239607	1.91	cps
Lead	207-1	1006833	1032387	1046802	1028674	1.97	cps
Lead	208-1	4903860	5052944	5126212	5027672	2.25	cps
Lithium	6-1	1277291	1241506	1212482	1243760	2.61	cps
Magnesium	24-2	4520157	4506779	4515290	4514075	0.15	cps
Manganese	55-2	5524422	5484229	5437178	5481943	0.80	cps
Molybdenum	94-1	53688	57432	56689	55936	3.54	cps
Molybdenum	95-1	17314	17444	17621	17459	0.88	cps
Molybdenum	96-1	28504	29523	30529	29519	3.43	cps
Molybdenum	97-1	10107	10944	11415	10822	6.12	cps
Molybdenum	98-1	27265	28384	28157	27936	2.12	cps
Neodymium	150-1	250802	258324	260960	256695	2.05	cps
Neodymium	150-2	177448	174836	175616	175967	0.76	cps
Nickel	60-2	156672	156678	156116	156488	0.21	cps
Phosphorus	31-2	37209	37429	36717	37118	0.98	cps
Potassium	39-2	682849	688097	691227	687391	0.62	cps
Rhodium	103-1	8823117	8409564	8474287	8568990	2.60	cps
Rhodium	103-2	5538676	5522008	5553659	5538114	0.29	cps
Scandium	45-1	4890297	4648990	4689883	4743057	2.72	cps
Scandium	45-2	549877	551171	544661	548570	0.63	cps
Selenium	82-1	1139	1093	1208	1147	5.02	cps
Selenium	77-2	457	400	480	446	9.23	cps
Selenium	78-2	1240	1113	1213	1189	5.62	cps
Silicon	28-1	4811745	5060814	5037123	4969894	2.77	cps
Silver	107-1	8839	8599	8826	8755	1.54	cps
Silver	109-1	7902	8156	8633	8230	4.51	cps
Sodium	23-2	316313	319171	319049	318178	0.51	cps
Strontium	86-1	369763	383410	385109	379427	2.22	cps
Strontium	88-1	3317759	3489854	3436292	3414635	2.58	cps
Sulfur	34-1	360059	367454	370919	366144	1.52	cps
Terbium	159-1	13118476	12500055	12522419	12713650	2.76	cps
Terbium	159-2	9149882	9103427	9198082	9150464	0.52	cps
Thallium	203-1	4454	4641	4618	4571	2.23	cps
Thallium	205-1	10771	10951	10958	10893	0.97	cps
Tin	118-1	5601	5604	5534	5580	0.71	cps
Titanium	47-1	1208141	1271022	1249745	1242969	2.57	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-07	Instrumnet Name :	P7
Client Sample ID :	A6333	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:51:39	DataFile Name :	049SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1244780	1285118	1292347	1274082	2.01	cps
Vanadium	51-2	323530	321196	321792	322173	0.38	cps
Yttrium	89-1	17950409	17352175	17290896	17531160	2.08	cps
Yttrium	89-2	5788286	5794758	5869372	5817472	0.77	cps
Zinc	66-2	180082	180274	181455	180603	0.41	cps
Zirconium	90-1	119156	125753	125732	123547	3.08	cps
Zirconium	91-1	26484	28174	27783	27480	3.22	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11480492	11510002	11323013	11437835	0.88	cps
Antimony	121-1	6351	6368	6502	6407	1.28	cps
Arsenic	75-2	47512	48385	48720	48206	1.29	cps
Barium	135-1	443428	448348	444962	445579	0.57	cps
Barium	137-1	764880	780214	777995	774363	1.07	cps
Beryllium	9-1	2560	2740	2550	2617	4.09	cps
Bismuth	209-1	7567534	7554902	7525244	7549227	0.29	cps
Bismuth	209-2	6372510	6293049	6237585	6301048	1.08	cps
Bromine	81-1	34510	36859	37501	36290	4.34	cps
Bromine	81-2	6095	5831	6138	6021	2.76	cps
Cadmium	108-1	373	403	417	398	5.58	cps
Cadmium	106-1	6325	6131	6241	6233	1.56	cps
Cadmium	111-1	8037	8050	7968	8018	0.55	cps
Calcium	43-1	506662	509531	511325	509173	0.46	cps
Calcium	44-1	7956347	8188860	8054321	8066509	1.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	458290	463566	456052	459303	0.84	cps
Cobalt	59-2	217598	216221	216042	216620	0.39	cps
Copper	63-2	166795	165605	165136	165845	0.52	cps
Dysprosium	156-1	145965	147098	148101	147055	0.73	cps
Dysprosium	156-2	146465	147229	145390	146361	0.63	cps
Erbium	164-1	125040	128732	128043	127272	1.54	cps
Erbium	164-2	95879	96487	95298	95888	0.62	cps
Gadolinium	160-1	145502	145803	148423	146576	1.10	cps
Gadolinium	160-2	117057	116186	115579	116274	0.64	cps
Holmium	165-1	12139147	12265859	12283244	12229416	0.64	cps
Holmium	165-2	9362049	9204417	9093813	9220093	1.46	cps
Indium	115-1	9078575	9117879	9060094	9085516	0.32	cps
Indium	115-2	4173371	4140476	4110126	4141324	0.76	cps
Iron	56-2	254391850	255506250	254407056	254768385	0.25	cps
Iron	57-2	6371170	6337389	6267435	6325331	0.84	cps
Iron	54-2	13875199	13926239	13907679	13903039	0.19	cps
Krypton	83-1	303	313	360	326	9.29	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1162282	1195547	1189123	1182318	1.49	cps
Lead	207-1	977458	986564	995298	986440	0.90	cps
Lead	208-1	4782809	4828162	4858338	4823103	0.79	cps
Lithium	6-1	1198425	1223804	1210195	1210808	1.05	cps
Magnesium	24-2	4781015	4785114	4685266	4750465	1.19	cps
Manganese	55-2	5404955	5424456	5365582	5398331	0.56	cps
Molybdenum	94-1	53735	54782	54993	54503	1.24	cps
Molybdenum	95-1	14828	14621	14524	14657	1.06	cps
Molybdenum	96-1	26113	26454	26688	26418	1.09	cps
Molybdenum	97-1	9136	9223	9263	9207	0.70	cps
Molybdenum	98-1	23178	23796	23295	23423	1.40	cps
Neodymium	150-1	266978	270839	270658	269492	0.81	cps
Neodymium	150-2	184170	182159	183328	183219	0.55	cps
Nickel	60-2	160229	160313	158628	159723	0.59	cps
Phosphorus	31-2	39123	39344	39514	39327	0.50	cps
Potassium	39-2	734791	733837	732580	733736	0.15	cps
Rhodium	103-1	8301276	8277082	8324716	8301025	0.29	cps
Rhodium	103-2	5500673	5527464	5500252	5509463	0.28	cps
Scandium	45-1	4682049	4655170	4680606	4672609	0.32	cps
Scandium	45-2	546246	551297	544228	547257	0.67	cps
Selenium	82-1	1094	1153	1031	1093	5.58	cps
Selenium	77-2	493	437	543	491	10.87	cps
Selenium	78-2	1200	1277	1233	1237	3.11	cps
Silicon	28-1	5224971	5388821	5661407	5425066	4.06	cps
Silver	107-1	9306	8990	9440	9245	2.50	cps
Silver	109-1	8606	8846	8853	8768	1.60	cps
Sodium	23-2	318923	317130	315974	317343	0.47	cps
Strontium	86-1	365346	372804	374405	370852	1.30	cps
Strontium	88-1	3302310	3325946	3362415	3330223	0.91	cps
Sulfur	34-1	344928	345164	344407	344833	0.11	cps
Terbium	159-1	12435669	12496562	12563954	12498728	0.51	cps
Terbium	159-2	9229421	9045294	9125134	9133283	1.01	cps
Thallium	203-1	4261	4424	4171	4285	3.00	cps
Thallium	205-1	10374	10234	10254	10287	0.74	cps
Tin	118-1	5835	5918	5941	5898	0.95	cps
Titanium	47-1	1305333	1319972	1349986	1325097	1.72	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-08	Instrumnet Name :	P7
Client Sample ID :	A6334	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:54:48	DataFile Name :	050SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1197867	1209572	1218190	1208543	0.84	cps
Vanadium	51-2	330475	328067	327422	328655	0.49	cps
Yttrium	89-1	17328081	17251021	17366455	17315185	0.34	cps
Yttrium	89-2	5864612	5833165	5884468	5860748	0.44	cps
Zinc	66-2	174223	172483	173249	173318	0.50	cps
Zirconium	90-1	125128	125759	125222	125369	0.27	cps
Zirconium	91-1	27750	28725	28177	28217	1.73	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5674144	5463950	5615137	5584410	1.94	cps
Antimony	121-1	8589	8759	8509	8619	1.48	cps
Arsenic	75-2	277856	274885	275767	276170	0.55	cps
Barium	135-1	259395	262006	260372	260591	0.51	cps
Barium	137-1	449611	449657	449109	449459	0.07	cps
Beryllium	9-1	4457	4417	4447	4441	0.47	cps
Bismuth	209-1	7801087	7777840	7785311	7788079	0.15	cps
Bismuth	209-2	6431283	6533969	6405434	6456895	1.05	cps
Bromine	81-1	27102	26841	26804	26916	0.60	cps
Bromine	81-2	3007	3057	3020	3028	0.86	cps
Cadmium	108-1	10060	9520	9476	9686	3.36	cps
Cadmium	106-1	15235	14831	14708	14924	1.85	cps
Cadmium	111-1	8196	8325	8233	8251	0.81	cps
Calcium	43-1	460943	458797	455592	458444	0.59	cps
Calcium	44-1	7231386	7256538	7248231	7245385	0.18	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3893388	3870396	3917439	3893741	0.60	cps
Cobalt	59-2	43272	42664	42339	42758	1.11	cps
Copper	63-2	15215037	15092861	14800991	15036296	1.41	cps
Dysprosium	156-1	23223	23540	23553	23439	0.80	cps
Dysprosium	156-2	21817	22264	22074	22052	1.02	cps
Erbium	164-1	21704	22188	22071	21987	1.15	cps
Erbium	164-2	16700	16106	16470	16425	1.82	cps
Gadolinium	160-1	22064	22605	22461	22377	1.25	cps
Gadolinium	160-2	17728	18182	17962	17957	1.26	cps
Holmium	165-1	12562288	12594791	12571057	12576045	0.13	cps
Holmium	165-2	9321521	9400041	9283280	9334948	0.64	cps
Indium	115-1	9307192	9315648	9350430	9324423	0.25	cps
Indium	115-2	4097135	4085716	4032726	4071859	0.84	cps
Iron	56-2	347941688	341972822	340451068	343455193	1.15	cps
Iron	57-2	8518343	8469658	8391685	8459895	0.76	cps
Iron	54-2	18987163	18862811	18770286	18873420	0.58	cps
Krypton	83-1	177	257	220	218	18.39	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1241814	1245355	1241071	1242747	0.18	cps
Lead	207-1	973663	973172	981028	975954	0.45	cps
Lead	208-1	4865292	4846238	4861006	4857512	0.21	cps
Lithium	6-1	1223987	1212911	1194022	1210306	1.25	cps
Magnesium	24-2	1058716	1043334	1048596	1050215	0.74	cps
Manganese	55-2	1422194	1403977	1398700	1408290	0.88	cps
Molybdenum	94-1	18575	18625	18272	18491	1.04	cps
Molybdenum	95-1	24300	25188	25506	24998	2.50	cps
Molybdenum	96-1	31972	31718	31701	31797	0.48	cps
Molybdenum	97-1	15909	15842	16246	15999	1.35	cps
Molybdenum	98-1	40175	40412	40503	40363	0.42	cps
Neodymium	150-1	37530	36714	37339	37194	1.15	cps
Neodymium	150-2	24708	24575	24865	24716	0.59	cps
Nickel	60-2	416133	415111	412112	414452	0.50	cps
Phosphorus	31-2	34746	33754	34579	34360	1.55	cps
Potassium	39-2	652297	644299	650661	649086	0.65	cps
Rhodium	103-1	8662142	8594015	8513360	8589839	0.87	cps
Rhodium	103-2	5621927	5645051	5518517	5595165	1.20	cps
Scandium	45-1	4578892	4567639	4562005	4569512	0.19	cps
Scandium	45-2	526029	520856	525853	524246	0.56	cps
Selenium	82-1	633	636	644	638	0.90	cps
Selenium	77-2	83	93	80	86	8.11	cps
Selenium	78-2	773	680	723	726	6.44	cps
Silicon	28-1	8547025	8352458	8451115	8450199	1.15	cps
Silver	107-1	155849	156442	156830	156374	0.32	cps
Silver	109-1	147720	146868	147012	147200	0.31	cps
Sodium	23-2	344936	342845	343186	343656	0.33	cps
Strontium	86-1	356260	357168	351986	355138	0.78	cps
Strontium	88-1	3164235	3216539	3177688	3186154	0.85	cps
Sulfur	34-1	376795	371889	370199	372961	0.92	cps
Terbium	159-1	12768304	12659529	12738411	12722081	0.44	cps
Terbium	159-2	9065273	9181859	9272214	9173115	1.13	cps
Thallium	203-1	3347	3257	3390	3332	2.04	cps
Thallium	205-1	8569	7949	7862	8127	4.75	cps
Tin	118-1	2776214	2744222	2693295	2737910	1.53	cps
Titanium	47-1	359748	355368	353783	356300	0.87	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-01	Instrumnet Name :	P7
Client Sample ID :	A6301	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 16:57:57	DataFile Name :	051SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60506	60075	60835	60472	0.63	cps
Vanadium	51-2	136128	136171	135851	136050	0.13	cps
Yttrium	89-1	16524539	16374185	16420418	16439714	0.47	cps
Yttrium	89-2	5366504	5378812	5400168	5381828	0.32	cps
Zinc	66-2	964755	954618	960016	959796	0.53	cps
Zirconium	90-1	10804	10968	10794	10855	0.90	cps
Zirconium	91-1	2764	2724	2744	2744	0.73	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4392799	4307564	4287777	4329380	1.29	cps
Antimony	121-1	9487	9333	9373	9398	0.85	cps
Arsenic	75-2	25215	25452	24908	25191	1.08	cps
Barium	135-1	942972	954181	949976	949043	0.60	cps
Barium	137-1	1708334	1721062	1701152	1710183	0.59	cps
Beryllium	9-1	2437	2440	2487	2455	1.14	cps
Bismuth	209-1	7845583	7826977	7756154	7809571	0.60	cps
Bismuth	209-2	6380709	6388472	6260582	6343255	1.13	cps
Bromine	81-1	45176	48466	49011	47551	4.36	cps
Bromine	81-2	8556	8796	8633	8661	1.42	cps
Cadmium	108-1	2907	3140	3344	3130	6.98	cps
Cadmium	106-1	8769	8606	8306	8560	2.75	cps
Cadmium	111-1	7464	7410	7124	7333	2.49	cps
Calcium	43-1	890188	893512	878718	887472	0.87	cps
Calcium	44-1	14191316	14254033	13980037	14141795	1.02	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4482496	4456069	4503005	4480523	0.53	cps
Cobalt	59-2	1816282	1823653	1827404	1822447	0.31	cps
Copper	63-2	9742194	9623536	9452764	9606165	1.51	cps
Dysprosium	156-1	46477	47413	46834	46908	1.01	cps
Dysprosium	156-2	43313	42922	43340	43192	0.54	cps
Erbium	164-1	50227	50879	50494	50533	0.65	cps
Erbium	164-2	37932	37240	37002	37391	1.29	cps
Gadolinium	160-1	45671	46878	47116	46555	1.66	cps
Gadolinium	160-2	36624	36644	35949	36406	1.09	cps
Holmium	165-1	12697406	12350155	12208841	12418801	2.02	cps
Holmium	165-2	9265971	9211585	9218733	9232096	0.32	cps
Indium	115-1	9370068	9143537	9102697	9205434	1.56	cps
Indium	115-2	4062119	3923998	4004053	3996723	1.74	cps
Iron	56-2	478635340	473437846	476804353	476292513	0.55	cps
Iron	57-2	11944358	11655818	11640591	11746922	1.46	cps
Iron	54-2	26063610	25919894	26097398	26026967	0.36	cps
Krypton	83-1	317	303	340	320	5.80	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	890501	906061	903394	899985	0.92	cps
Lead	207-1	719457	728990	731056	726501	0.85	cps
Lead	208-1	3539095	3567804	3592326	3566408	0.75	cps
Lithium	6-1	1208111	1211758	1201393	1207087	0.44	cps
Magnesium	24-2	904662	896605	897255	899507	0.50	cps
Manganese	55-2	102477008	101321895	102217802	102005568	0.59	cps
Molybdenum	94-1	14604	14531	14294	14476	1.12	cps
Molybdenum	95-1	23469	23082	22547	23033	2.01	cps
Molybdenum	96-1	27947	28247	27566	27920	1.22	cps
Molybdenum	97-1	12455	12575	12209	12413	1.51	cps
Molybdenum	98-1	31948	32720	31487	32052	1.94	cps
Neodymium	150-1	69798	71560	70615	70658	1.25	cps
Neodymium	150-2	46774	47078	47025	46959	0.35	cps
Nickel	60-2	1106988	1099643	1096323	1100985	0.50	cps
Phosphorus	31-2	22603	22884	22931	22806	0.78	cps
Potassium	39-2	1259816	1242017	1274267	1258700	1.28	cps
Rhodium	103-1	8653387	8326488	8251185	8410353	2.54	cps
Rhodium	103-2	5481198	5439073	5450372	5456881	0.40	cps
Scandium	45-1	4589291	4367813	4352160	4436421	2.99	cps
Scandium	45-2	505493	500449	504275	503406	0.52	cps
Selenium	82-1	656	603	616	625	4.46	cps
Selenium	77-2	193	140	173	169	15.95	cps
Selenium	78-2	717	720	627	688	7.70	cps
Silicon	28-1	9177869	8953864	8748045	8959926	2.40	cps
Silver	107-1	38668	39380	39179	39076	0.94	cps
Silver	109-1	37131	37041	36670	36947	0.66	cps
Sodium	23-2	530609	526362	526852	527941	0.44	cps
Strontium	86-1	642586	641957	638777	641107	0.32	cps
Strontium	88-1	5817251	5741009	5757146	5771802	0.70	cps
Sulfur	34-1	257498	253503	250488	253829	1.39	cps
Terbium	159-1	12788564	12556349	12492995	12612636	1.23	cps
Terbium	159-2	8969566	8978129	9011345	8986347	0.25	cps
Thallium	203-1	8076	8369	8449	8298	2.37	cps
Thallium	205-1	19217	19618	19524	19453	1.08	cps
Tin	118-1	603947	610140	611225	608437	0.65	cps
Titanium	47-1	216479	217196	214080	215918	0.76	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:01:04	DataFile Name :	052SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	95687	96285	98242	96738	1.38	cps
Vanadium	51-2	94607	94457	94306	94456	0.16	cps
Yttrium	89-1	17033715	16610466	16360638	16668273	2.04	cps
Yttrium	89-2	5464414	5336264	5383377	5394685	1.20	cps
Zinc	66-2	161159	159687	158653	159833	0.79	cps
Zirconium	90-1	7785	7812	7896	7831	0.73	cps
Zirconium	91-1	1647	1763	1930	1780	8.00	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1757689	1801539	1794403	1784543	1.32	cps
Antimony	121-1	2240	2424	2284	2316	4.14	cps
Arsenic	75-2	24964	25495	25081	25180	1.11	cps
Barium	135-1	69140	75137	74815	73031	4.62	cps
Barium	137-1	122250	129009	131531	127597	3.76	cps
Beryllium	9-1	487	490	490	489	0.39	cps
Bismuth	209-1	9132097	7939070	7794468	8288545	8.86	cps
Bismuth	209-2	6392676	6312904	6444873	6383484	1.04	cps
Bromine	81-1	18425	19597	19994	19338	4.22	cps
Bromine	81-2	1523	1627	1683	1611	5.04	cps
Cadmium	108-1	220	310	247	259	17.86	cps
Cadmium	106-1	6058	5188	4834	5360	11.75	cps
Cadmium	111-1	4710	4111	3865	4229	10.28	cps
Calcium	43-1	44980	48049	48982	47337	4.42	cps
Calcium	44-1	740193	788228	803016	777146	4.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	754744	755094	758684	756174	0.29	cps
Cobalt	59-2	86179	85431	86286	85965	0.54	cps
Copper	63-2	386989	384861	387129	386326	0.33	cps
Dysprosium	156-1	15142	16293	16770	16068	5.21	cps
Dysprosium	156-2	16730	16450	17201	16793	2.26	cps
Erbium	164-1	13784	14558	15469	14603	5.78	cps
Erbium	164-2	11121	10948	11175	11081	1.07	cps
Gadolinium	160-1	14267	15318	15682	15089	4.87	cps
Gadolinium	160-2	12122	12749	12606	12492	2.63	cps
Holmium	165-1	14421159	12251771	12251924	12974951	9.65	cps
Holmium	165-2	9184801	9109655	9179730	9158062	0.46	cps
Indium	115-1	10795415	9189412	9231283	9738703	9.40	cps
Indium	115-2	4078591	4059480	4120524	4086199	0.76	cps
Iron	56-2	70244021	69918007	69788514	69983514	0.34	cps
Iron	57-2	1739015	1705601	1709429	1718015	1.06	cps
Iron	54-2	3819132	3794198	3807023	3806784	0.33	cps
Krypton	83-1	203	237	240	227	8.94	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	436636	470626	476358	461207	4.66	cps
Lead	207-1	358312	382549	385852	375571	4.00	cps
Lead	208-1	1674213	1798312	1819709	1764078	4.45	cps
Lithium	6-1	1357603	1216440	1178640	1250894	7.54	cps
Magnesium	24-2	829213	832186	827879	829759	0.27	cps
Manganese	55-2	1883090	1829936	1825051	1846026	1.74	cps
Molybdenum	94-1	7285	7782	7679	7582	3.46	cps
Molybdenum	95-1	9930	10430	10394	10251	2.72	cps
Molybdenum	96-1	11368	12602	12389	12120	5.44	cps
Molybdenum	97-1	6078	6525	6461	6355	3.80	cps
Molybdenum	98-1	15018	16513	16486	16006	5.34	cps
Neodymium	150-1	25269	27544	27921	26911	5.33	cps
Neodymium	150-2	18629	18996	18839	18822	0.98	cps
Nickel	60-2	46171	47602	47321	47031	1.61	cps
Phosphorus	31-2	5148	5454	5304	5302	2.89	cps
Potassium	39-2	377056	378518	377475	377683	0.20	cps
Rhodium	103-1	9877466	8540292	8467971	8961910	8.86	cps
Rhodium	103-2	5636208	5609786	5598697	5614897	0.34	cps
Scandium	45-1	5111214	4340402	4368808	4606808	9.49	cps
Scandium	45-2	521941	515261	518917	518706	0.64	cps
Selenium	82-1	491	400	483	458	10.94	cps
Selenium	77-2	50	67	43	53	22.54	cps
Selenium	78-2	610	713	650	658	7.92	cps
Silicon	28-1	6383028	6806279	6978049	6722452	4.56	cps
Silver	107-1	2130	1980	2057	2056	3.65	cps
Silver	109-1	1777	1703	1603	1695	5.14	cps
Sodium	23-2	130866	132185	131677	131576	0.51	cps
Strontium	86-1	37354	39974	40686	39338	4.46	cps
Strontium	88-1	326234	351725	355685	344548	4.64	cps
Sulfur	34-1	119459	119828	118700	119329	0.48	cps
Terbium	159-1	14581993	12533873	12589059	13234975	8.82	cps
Terbium	159-2	9056729	8924257	8906682	8962556	0.92	cps
Thallium	203-1	1550	1523	1463	1512	2.94	cps
Thallium	205-1	3811	3360	3334	3502	7.65	cps
Tin	118-1	95088	101524	102837	99817	4.15	cps
Titanium	47-1	355833	388304	393510	379215	5.38	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-03	Instrumnet Name :	P7
Client Sample ID :	A6303	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:04:07	DataFile Name :	053SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	40916	44474	43624	43005	4.32	cps
Vanadium	51-2	73896	74168	74141	74068	0.20	cps
Yttrium	89-1	18624252	15964695	15872165	16820371	9.29	cps
Yttrium	89-2	5292412	5347301	5298509	5312740	0.57	cps
Zinc	66-2	54847	54673	55703	55074	1.00	cps
Zirconium	90-1	4774	5181	5498	5151	7.04	cps
Zirconium	91-1	1140	1063	1133	1112	3.82	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1826691	1831172	1825520	1827794	0.16	cps
Antimony	121-1	2124	2504	2377	2335	8.29	cps
Arsenic	75-2	32402	32278	33097	32592	1.35	cps
Barium	135-1	70859	76427	76350	74545	4.28	cps
Barium	137-1	122165	132568	130835	128523	4.34	cps
Beryllium	9-1	440	430	543	471	13.32	cps
Bismuth	209-1	9413663	7974347	7845937	8411315	10.35	cps
Bismuth	209-2	6454738	6486164	6402499	6447800	0.66	cps
Bromine	81-1	19937	21042	20915	20631	2.93	cps
Bromine	81-2	1497	1373	1553	1475	6.24	cps
Cadmium	108-1	227	257	247	243	6.28	cps
Cadmium	106-1	6575	5218	5151	5648	14.23	cps
Cadmium	111-1	5064	4239	4086	4463	11.78	cps
Calcium	43-1	48769	54206	53116	52030	5.53	cps
Calcium	44-1	815025	880378	888865	861423	4.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	710484	711484	706580	709516	0.37	cps
Cobalt	59-2	77194	78283	77137	77538	0.83	cps
Copper	63-2	361229	366037	362274	363180	0.70	cps
Dysprosium	156-1	15132	16563	16393	16029	4.88	cps
Dysprosium	156-2	16283	16153	16270	16235	0.44	cps
Erbium	164-1	12612	14341	14017	13657	6.73	cps
Erbium	164-2	10434	10287	10357	10359	0.71	cps
Gadolinium	160-1	13670	14471	15399	14513	5.96	cps
Gadolinium	160-2	12155	12195	12169	12173	0.17	cps
Holmium	165-1	15076145	12701505	12488476	13422042	10.70	cps
Holmium	165-2	9331014	9206171	9261244	9266143	0.68	cps
Indium	115-1	11466606	9510603	9383844	10120351	11.54	cps
Indium	115-2	4173618	4214290	4142837	4176915	0.86	cps
Iron	56-2	83417817	82386397	82326972	82710395	0.74	cps
Iron	57-2	2046408	2033659	2010057	2030041	0.91	cps
Iron	54-2	4499077	4540624	4465594	4501765	0.83	cps
Krypton	83-1	223	217	223	221	1.74	cps

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On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	396565	430842	431567	419658	4.77	cps
Lead	207-1	322696	351205	353672	342524	5.03	cps
Lead	208-1	1514764	1649005	1656213	1606661	4.96	cps
Lithium	6-1	1394534	1189850	1189361	1257915	9.41	cps
Magnesium	24-2	834913	836111	833042	834689	0.19	cps
Manganese	55-2	1704322	1665320	1682938	1684193	1.16	cps
Molybdenum	94-1	10207	10701	10851	10586	3.18	cps
Molybdenum	95-1	13960	15602	15361	14974	5.92	cps
Molybdenum	96-1	16543	17667	17834	17348	4.05	cps
Molybdenum	97-1	8823	9690	9480	9331	4.85	cps
Molybdenum	98-1	23469	25085	24968	24507	3.68	cps
Neodymium	150-1	24949	27253	27156	26453	4.93	cps
Neodymium	150-2	17968	18148	18008	18042	0.52	cps
Nickel	60-2	49030	48933	48859	48941	0.17	cps
Phosphorus	31-2	5618	5581	5561	5587	0.51	cps
Potassium	39-2	376443	381033	376109	377862	0.73	cps
Rhodium	103-1	10524386	8900508	8809081	9411325	10.25	cps
Rhodium	103-2	5753760	5760602	5753953	5756105	0.07	cps
Scandium	45-1	5538641	4684754	4612344	4945246	10.42	cps
Scandium	45-2	534896	537492	534110	535499	0.33	cps
Selenium	82-1	514	530	485	510	4.46	cps
Selenium	77-2	73	47	67	62	22.30	cps
Selenium	78-2	640	673	717	677	5.68	cps
Silicon	28-1	6412839	6807492	6824557	6681629	3.49	cps
Silver	107-1	1433	1673	1690	1599	8.98	cps
Silver	109-1	1410	1617	1553	1527	6.94	cps
Sodium	23-2	103005	104025	104595	103875	0.78	cps
Strontium	86-1	39784	43307	43370	42154	4.87	cps
Strontium	88-1	348406	378188	376665	367753	4.56	cps
Sulfur	34-1	119036	119952	120030	119673	0.46	cps
Terbium	159-1	15152024	12979414	12562001	13564480	10.25	cps
Terbium	159-2	9162199	9166199	8945513	9091304	1.39	cps
Thallium	203-1	1297	1273	1337	1302	2.46	cps
Thallium	205-1	3067	3010	3194	3090	3.04	cps
Tin	118-1	91318	99235	100051	96868	4.98	cps
Titanium	47-1	367589	396748	401743	388694	4.75	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-04	Instrumnet Name :	P7
Client Sample ID :	A6304	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:07:19	DataFile Name :	054SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	41244	44383	44303	43310	4.13	cps
Vanadium	51-2	75417	76141	75578	75712	0.50	cps
Yttrium	89-1	19901367	16899990	16621829	17807729	10.21	cps
Yttrium	89-2	5519026	5463143	5414220	5465463	0.96	cps
Zinc	66-2	54201	54542	54402	54382	0.32	cps
Zirconium	90-1	4717	5008	5038	4921	3.59	cps
Zirconium	91-1	1107	1050	1157	1104	4.83	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3504810	3494719	3508827	3502786	0.21	cps
Antimony	121-1	697	690	587	658	9.38	cps
Arsenic	75-2	5148	5151	5251	5183	1.13	cps
Barium	135-1	95260	99830	100759	98616	2.99	cps
Barium	137-1	167277	172361	171935	170524	1.65	cps
Beryllium	9-1	513	617	500	543	11.75	cps
Bismuth	209-1	8459391	7727537	7678317	7955082	5.50	cps
Bismuth	209-2	6401958	6316504	6328992	6349151	0.73	cps
Bromine	81-1	18024	18585	18528	18379	1.68	cps
Bromine	81-2	1000	913	947	953	4.59	cps
Cadmium	108-1	70	30	47	49	41.10	cps
Cadmium	106-1	5411	5104	4788	5101	6.11	cps
Cadmium	111-1	4162	3982	3745	3963	5.28	cps
Calcium	43-1	30497	30694	30501	30564	0.37	cps
Calcium	44-1	499830	514384	513562	509258	1.61	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	111596	112263	111407	111755	0.40	cps
Cobalt	59-2	20471	20484	20614	20523	0.39	cps
Copper	63-2	26771	28367	26724	27287	3.43	cps
Dysprosium	156-1	14554	15058	15091	14901	2.02	cps
Dysprosium	156-2	15262	15402	15318	15327	0.46	cps
Erbium	164-1	11351	11989	12079	11806	3.36	cps
Erbium	164-2	8950	9180	9006	9045	1.33	cps
Gadolinium	160-1	13303	13420	13497	13407	0.73	cps
Gadolinium	160-2	11428	11181	11178	11262	1.27	cps
Holmium	165-1	13713731	12302326	12216580	12744212	6.60	cps
Holmium	165-2	9221688	9201863	9074922	9166158	0.87	cps
Indium	115-1	10338932	9339689	9275964	9651528	6.18	cps
Indium	115-2	4106224	4101606	4081212	4096347	0.32	cps
Iron	56-2	41862294	41579921	41780699	41740971	0.35	cps
Iron	57-2	1056554	1063154	1058729	1059479	0.32	cps
Iron	54-2	2279227	2276017	2264272	2273172	0.35	cps
Krypton	83-1	193	220	207	207	6.45	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	367446	373538	382416	374467	2.01	cps
Lead	207-1	302241	313686	313184	309704	2.09	cps
Lead	208-1	1412704	1447566	1469722	1443331	1.99	cps
Lithium	6-1	1239738	1118659	1136703	1165034	5.61	cps
Magnesium	24-2	1036460	1043086	1038311	1039286	0.33	cps
Manganese	55-2	351126	349462	352426	351005	0.42	cps
Molybdenum	94-1	5301	5318	5298	5305	0.20	cps
Molybdenum	95-1	3267	3380	3070	3239	4.84	cps
Molybdenum	96-1	4444	4467	4447	4453	0.28	cps
Molybdenum	97-1	2000	2074	2074	2049	2.07	cps
Molybdenum	98-1	5124	5164	5201	5163	0.74	cps
Neodymium	150-1	24919	26585	26258	25921	3.41	cps
Neodymium	150-2	18038	17337	17518	17631	2.06	cps
Nickel	60-2	21526	21526	20905	21319	1.68	cps
Phosphorus	31-2	5428	5694	5821	5648	3.56	cps
Potassium	39-2	358445	354441	359032	357306	0.70	cps
Rhodium	103-1	9617292	8640754	8520256	8926100	6.74	cps
Rhodium	103-2	5682966	5567362	5591381	5613903	1.09	cps
Scandium	45-1	5108706	4501983	4494864	4701851	7.49	cps
Scandium	45-2	522311	518707	523980	521666	0.52	cps
Selenium	82-1	545	568	519	544	4.45	cps
Selenium	77-2	50	37	70	52	32.12	cps
Selenium	78-2	663	640	643	649	1.95	cps
Silicon	28-1	6140026	6214952	6172796	6175924	0.61	cps
Silver	107-1	950	967	973	963	1.25	cps
Silver	109-1	750	857	943	850	11.39	cps
Sodium	23-2	280299	281138	277306	279581	0.72	cps
Strontium	86-1	30762	31945	32325	31677	2.57	cps
Strontium	88-1	270449	283589	284875	279637	2.85	cps
Sulfur	34-1	130451	128215	127362	128676	1.24	cps
Terbium	159-1	13730550	12502553	12263841	12832314	6.13	cps
Terbium	159-2	8972233	8950620	8916840	8946564	0.31	cps
Thallium	203-1	1917	2120	2177	2071	6.60	cps
Thallium	205-1	4904	4771	4674	4783	2.42	cps
Tin	118-1	3694	3931	3771	3798	3.18	cps
Titanium	47-1	340990	351915	349859	347588	1.67	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-12	Instrumnet Name :	P7
Client Sample ID :	A6343	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:10:30	DataFile Name :	055SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	46377	47665	47852	47298	1.70	cps
Vanadium	51-2	88243	87867	88467	88192	0.34	cps
Yttrium	89-1	18090378	16181202	15962869	16744816	6.99	cps
Yttrium	89-2	5259481	5302975	5310181	5290879	0.52	cps
Zinc	66-2	32783	32445	32906	32711	0.73	cps
Zirconium	90-1	9643	9527	9840	9670	1.64	cps
Zirconium	91-1	2030	2260	2070	2120	5.80	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1532984	1481079	1484655	1499573	1.93	cps
Antimony	121-1	380	343	393	372	6.96	cps
Arsenic	75-2	4597	4511	4584	4564	1.02	cps
Barium	135-1	93712	94071	94702	94162	0.53	cps
Barium	137-1	160841	162577	163417	162278	0.81	cps
Beryllium	9-1	380	410	450	413	8.50	cps
Bismuth	209-1	7780067	7684477	7684893	7716479	0.71	cps
Bismuth	209-2	6306265	6283934	6411553	6333917	1.08	cps
Bromine	81-1	16803	16966	16743	16837	0.69	cps
Bromine	81-2	593	730	613	646	11.43	cps
Cadmium	108-1	60	53	90	68	28.82	cps
Cadmium	106-1	4951	4687	4851	4830	2.75	cps
Cadmium	111-1	3990	3791	3943	3908	2.67	cps
Calcium	43-1	59105	59124	59918	59382	0.78	cps
Calcium	44-1	983420	989170	984223	985604	0.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	59186	58841	59035	59020	0.29	cps
Cobalt	59-2	34246	34466	35081	34598	1.25	cps
Copper	63-2	24854	24497	24580	24644	0.76	cps
Dysprosium	156-1	14518	14411	14431	14453	0.39	cps
Dysprosium	156-2	14397	14114	14584	14365	1.65	cps
Erbium	164-1	12616	12793	13376	12928	3.08	cps
Erbium	164-2	9523	9513	9430	9489	0.54	cps
Gadolinium	160-1	13690	13874	13894	13819	0.81	cps
Gadolinium	160-2	11265	11251	11265	11260	0.07	cps
Holmium	165-1	12443907	12189397	12120751	12251352	1.39	cps
Holmium	165-2	9066878	9102678	9181255	9116937	0.64	cps
Indium	115-1	9265635	9200906	9201027	9222523	0.40	cps
Indium	115-2	4064708	4078338	4106333	4083126	0.52	cps
Iron	56-2	26499315	26476895	26582578	26519596	0.21	cps
Iron	57-2	668629	671098	672449	670725	0.29	cps
Iron	54-2	1434228	1484334	1449887	1456150	1.76	cps
Krypton	83-1	247	190	217	218	13.02	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	122976	124221	123672	123623	0.50	cps
Lead	207-1	100740	101240	103436	101805	1.41	cps
Lead	208-1	473494	478491	479272	477086	0.66	cps
Lithium	6-1	1163809	1108618	1116731	1129719	2.64	cps
Magnesium	24-2	665891	670450	669897	668746	0.37	cps
Manganese	55-2	414860	416746	415406	415671	0.23	cps
Molybdenum	94-1	5351	5631	5451	5478	2.59	cps
Molybdenum	95-1	1887	1753	1880	1840	4.08	cps
Molybdenum	96-1	3137	3020	3047	3068	1.99	cps
Molybdenum	97-1	1163	1140	1120	1141	1.90	cps
Molybdenum	98-1	3054	2957	2914	2975	2.41	cps
Neodymium	150-1	24822	24715	24478	24672	0.71	cps
Neodymium	150-2	16433	16443	16873	16583	1.52	cps
Nickel	60-2	20861	20467	20641	20657	0.96	cps
Phosphorus	31-2	4487	4361	4264	4371	2.56	cps
Potassium	39-2	362524	361223	363976	362574	0.38	cps
Rhodium	103-1	8667897	8555433	8361508	8528279	1.82	cps
Rhodium	103-2	5595925	5581380	5609926	5595744	0.26	cps
Scandium	45-1	4482350	4452262	4424794	4453135	0.65	cps
Scandium	45-2	514985	515887	521248	517373	0.65	cps
Selenium	82-1	467	542	472	494	8.50	cps
Selenium	77-2	37	47	47	43	13.32	cps
Selenium	78-2	657	617	727	667	8.35	cps
Silicon	28-1	4001453	3903023	4011439	3971972	1.51	cps
Silver	107-1	757	643	773	724	9.76	cps
Silver	109-1	690	643	660	664	3.56	cps
Sodium	23-2	95396	95933	95879	95736	0.31	cps
Strontium	86-1	30141	30348	30462	30317	0.54	cps
Strontium	88-1	262996	262713	265757	263822	0.64	cps
Sulfur	34-1	132670	133920	132962	133184	0.49	cps
Terbium	159-1	12508392	12486799	12447836	12481009	0.25	cps
Terbium	159-2	8973547	8989620	8840869	8934679	0.91	cps
Thallium	203-1	1387	1410	1473	1423	3.15	cps
Thallium	205-1	3174	3270	3514	3319	5.28	cps
Tin	118-1	2847	2707	2927	2827	3.94	cps
Titanium	47-1	211713	213017	212108	212279	0.31	cps

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On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-13	Instrumnet Name :	P7
Client Sample ID :	A6344	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:13:45	DataFile Name :	056SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	77547	78620	78563	78243	0.77	cps
Vanadium	51-2	45686	45421	45997	45701	0.63	cps
Yttrium	89-1	16243476	15851380	15885223	15993359	1.36	cps
Yttrium	89-2	5240718	5220292	5307051	5256020	0.86	cps
Zinc	66-2	44459	43934	44459	44284	0.68	cps
Zirconium	90-1	12035	12122	12142	12100	0.47	cps
Zirconium	91-1	2437	2854	2570	2620	8.12	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2248141	2274015	2257115	2259757	0.58	cps
Antimony	121-1	290	330	367	329	11.66	cps
Arsenic	75-2	3847	4051	3987	3962	2.63	cps
Barium	135-1	140128	142608	143117	141951	1.13	cps
Barium	137-1	246184	248613	247975	247591	0.51	cps
Beryllium	9-1	500	553	500	518	5.95	cps
Bismuth	209-1	7878403	7540271	7571468	7663381	2.44	cps
Bismuth	209-2	6394716	6328908	6248678	6324101	1.16	cps
Bromine	81-1	16382	16426	16603	16470	0.71	cps
Bromine	81-2	623	603	683	637	6.54	cps
Cadmium	108-1	60	80	63	68	15.81	cps
Cadmium	106-1	5131	4711	4871	4904	4.32	cps
Cadmium	111-1	4103	3792	3879	3924	4.09	cps
Calcium	43-1	46885	47715	47685	47428	0.99	cps
Calcium	44-1	767020	787649	780340	778336	1.34	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90137	89832	90614	90194	0.44	cps
Cobalt	59-2	34637	34480	34035	34384	0.91	cps
Copper	63-2	26657	26143	26764	26521	1.25	cps
Dysprosium	156-1	17468	17731	18035	17745	1.60	cps
Dysprosium	156-2	17988	17945	18082	18005	0.39	cps
Erbium	164-1	13540	13964	14378	13960	3.00	cps
Erbium	164-2	10120	10467	10607	10398	2.41	cps
Gadolinium	160-1	16420	16400	16670	16496	0.91	cps
Gadolinium	160-2	13697	13683	13263	13548	1.82	cps
Holmium	165-1	12567988	11853774	12045261	12155675	3.04	cps
Holmium	165-2	9020993	9024901	8992532	9012808	0.20	cps
Indium	115-1	9512705	9131594	9095101	9246467	2.50	cps
Indium	115-2	4073568	4067041	4108151	4082920	0.54	cps
Iron	56-2	36294459	36735167	36502308	36510644	0.60	cps
Iron	57-2	918401	924974	919785	921053	0.38	cps
Iron	54-2	1986164	1997573	1967634	1983790	0.76	cps
Krypton	83-1	190	157	200	182	12.45	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	143403	145798	146792	145331	1.20	cps
Lead	207-1	117946	120515	121547	120003	1.55	cps
Lead	208-1	551749	563915	568457	561374	1.54	cps
Lithium	6-1	1197257	1123067	1143409	1154578	3.32	cps
Magnesium	24-2	1009161	1016937	1013597	1013232	0.38	cps
Manganese	55-2	583297	583540	581900	582913	0.15	cps
Molybdenum	94-1	6548	6938	6788	6758	2.91	cps
Molybdenum	95-1	2304	2214	2197	2238	2.56	cps
Molybdenum	96-1	3851	3951	3731	3844	2.87	cps
Molybdenum	97-1	1497	1373	1480	1450	4.62	cps
Molybdenum	98-1	3630	3527	3751	3636	3.07	cps
Neodymium	150-1	30546	31068	31041	30885	0.95	cps
Neodymium	150-2	21082	20869	20682	20878	0.96	cps
Nickel	60-2	23585	23332	23225	23380	0.79	cps
Phosphorus	31-2	3500	3670	3470	3547	3.04	cps
Potassium	39-2	435770	437749	439163	437561	0.39	cps
Rhodium	103-1	8817678	8314242	8327804	8486575	3.38	cps
Rhodium	103-2	5573082	5545115	5552519	5556905	0.26	cps
Scandium	45-1	4671805	4391343	4390460	4484536	3.62	cps
Scandium	45-2	513663	515685	511225	513524	0.43	cps
Selenium	82-1	527	512	458	499	7.30	cps
Selenium	77-2	87	47	47	60	38.49	cps
Selenium	78-2	630	713	617	653	8.02	cps
Silicon	28-1	4654508	4669053	5012525	4778695	4.24	cps
Silver	107-1	617	683	587	629	7.87	cps
Silver	109-1	650	600	640	630	4.20	cps
Sodium	23-2	126672	126141	125314	126042	0.54	cps
Strontium	86-1	41147	42070	41779	41665	1.13	cps
Strontium	88-1	356947	368849	366071	363956	1.71	cps
Sulfur	34-1	124122	123383	123446	123650	0.33	cps
Terbium	159-1	12913131	12272666	12193671	12459822	3.17	cps
Terbium	159-2	8841488	8880450	8916915	8879618	0.42	cps
Thallium	203-1	1700	1860	1773	1778	4.51	cps
Thallium	205-1	4201	4057	4364	4207	3.65	cps
Tin	118-1	3057	3267	3127	3150	3.40	cps
Titanium	47-1	301973	308716	305910	305533	1.11	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-14	Instrumnet Name :	P7
Client Sample ID :	A6345	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:16:57	DataFile Name :	057SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	84080	86240	84848	85056	1.29	cps
Vanadium	51-2	61595	63061	61896	62184	1.24	cps
Yttrium	89-1	16525679	15829144	15559444	15971422	3.12	cps
Yttrium	89-2	5263068	5212679	5192708	5222818	0.69	cps
Zinc	66-2	33207	33858	33728	33598	1.03	cps
Zirconium	90-1	14264	14521	15028	14604	2.66	cps
Zirconium	91-1	3507	3280	3180	3323	5.04	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1915467	1934273	1933089	1927610	0.55	cps
Antimony	121-1	463	510	533	502	7.10	cps
Arsenic	75-2	4934	4824	5031	4930	2.10	cps
Barium	135-1	120333	121429	122730	121497	0.99	cps
Barium	137-1	206225	214699	213319	211415	2.15	cps
Beryllium	9-1	503	477	487	489	2.76	cps
Bismuth	209-1	8151727	7513839	7581166	7748911	4.52	cps
Bismuth	209-2	6404726	6386016	6237939	6342894	1.44	cps
Bromine	81-1	16229	15905	15615	15916	1.93	cps
Bromine	81-2	577	590	600	589	1.99	cps
Cadmium	108-1	107	73	37	72	48.48	cps
Cadmium	106-1	5161	4864	4991	5005	2.98	cps
Cadmium	111-1	4151	3994	3995	4047	2.24	cps
Calcium	43-1	46264	47240	47457	46987	1.35	cps
Calcium	44-1	762654	786622	777490	775589	1.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	85065	84351	84378	84598	0.48	cps
Cobalt	59-2	38349	39034	38706	38696	0.89	cps
Copper	63-2	43560	43931	42915	43469	1.18	cps
Dysprosium	156-1	19477	19904	20348	19910	2.19	cps
Dysprosium	156-2	19751	20155	20094	20000	1.09	cps
Erbium	164-1	17007	17201	17317	17175	0.91	cps
Erbium	164-2	12989	12582	12973	12848	1.79	cps
Gadolinium	160-1	18322	19243	19050	18872	2.57	cps
Gadolinium	160-2	15899	15459	15479	15612	1.59	cps
Holmium	165-1	12700704	11952138	12253086	12301976	3.06	cps
Holmium	165-2	9148086	9096025	9057651	9100587	0.50	cps
Indium	115-1	9618006	9037403	9065986	9240465	3.54	cps
Indium	115-2	4047557	4069976	3999276	4038937	0.89	cps
Iron	56-2	40898046	41128055	40930524	40985542	0.30	cps
Iron	57-2	1041174	1037316	1030327	1036273	0.53	cps
Iron	54-2	2254673	2225920	2255190	2245261	0.75	cps
Krypton	83-1	217	270	177	221	21.18	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	126539	131289	131687	129839	2.21	cps
Lead	207-1	105411	109154	108199	107588	1.81	cps
Lead	208-1	492170	506621	504881	501224	1.57	cps
Lithium	6-1	1221525	1152601	1145931	1173352	3.57	cps
Magnesium	24-2	1050009	1049249	1044622	1047960	0.28	cps
Manganese	55-2	829844	824073	821391	825103	0.52	cps
Molybdenum	94-1	9920	10541	9917	10126	3.55	cps
Molybdenum	95-1	2490	2607	2827	2641	6.47	cps
Molybdenum	96-1	4647	4844	4918	4803	2.91	cps
Molybdenum	97-1	1627	1660	1713	1667	2.62	cps
Molybdenum	98-1	4424	4431	4207	4354	2.92	cps
Neodymium	150-1	32868	33714	33025	33202	1.35	cps
Neodymium	150-2	23413	22568	23299	23093	1.99	cps
Nickel	60-2	26313	25922	26564	26266	1.23	cps
Phosphorus	31-2	5248	5151	5118	5172	1.31	cps
Potassium	39-2	748062	742639	742253	744318	0.44	cps
Rhodium	103-1	8865330	8525765	8257905	8549667	3.56	cps
Rhodium	103-2	5544272	5477022	5535763	5519019	0.66	cps
Scandium	45-1	4690444	4390390	4365655	4482163	4.03	cps
Scandium	45-2	514426	512724	516541	514564	0.37	cps
Selenium	82-1	490	413	500	467	10.19	cps
Selenium	77-2	87	67	100	84	19.87	cps
Selenium	78-2	663	647	650	653	1.35	cps
Silicon	28-1	4892831	5043336	5954898	5297021	10.85	cps
Silver	107-1	683	773	620	692	11.13	cps
Silver	109-1	553	590	637	593	7.04	cps
Sodium	23-2	134143	131765	130551	132153	1.38	cps
Strontium	86-1	32312	32853	33161	32775	1.31	cps
Strontium	88-1	282465	287922	291196	287194	1.54	cps
Sulfur	34-1	121905	121397	122956	122086	0.65	cps
Terbium	159-1	13116636	12354627	12082605	12517956	4.28	cps
Terbium	159-2	9033389	8888074	8896242	8939235	0.91	cps
Thallium	203-1	1867	1880	2054	1933	5.39	cps
Thallium	205-1	4474	4557	4557	4530	1.06	cps
Tin	118-1	3020	3267	3260	3183	4.42	cps
Titanium	47-1	368334	382342	380748	377141	2.03	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-15	Instrumnet Name :	P7
Client Sample ID :	A6346	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:20:11	DataFile Name :	058SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	82218	85713	84388	84107	2.10	cps
Vanadium	51-2	72051	70909	70330	71096	1.23	cps
Yttrium	89-1	16871755	15564530	15645616	16027300	4.57	cps
Yttrium	89-2	5322032	5258650	5198887	5259856	1.17	cps
Zinc	66-2	37888	37303	37026	37406	1.18	cps
Zirconium	90-1	23068	23602	23933	23534	1.85	cps
Zirconium	91-1	5318	5088	5288	5231	2.39	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3904294	3952052	3893795	3916714	0.79	cps
Antimony	121-1	280	233	290	268	11.30	cps
Arsenic	75-2	2090	2254	2074	2139	4.65	cps
Barium	135-1	139279	144033	144756	142690	2.09	cps
Barium	137-1	245163	250724	246613	247500	1.17	cps
Beryllium	9-1	643	600	703	649	8.00	cps
Bismuth	209-1	7817632	7640522	7468157	7642104	2.29	cps
Bismuth	209-2	6403582	6359211	6224224	6329005	1.48	cps
Bromine	81-1	15975	16796	17160	16644	3.65	cps
Bromine	81-2	513	573	600	562	7.90	cps
Cadmium	108-1	43	30	53	42	27.72	cps
Cadmium	106-1	4988	4841	4781	4870	2.18	cps
Cadmium	111-1	3774	3651	3583	3669	2.65	cps
Calcium	43-1	30624	31546	31028	31066	1.49	cps
Calcium	44-1	504443	514500	513322	510755	1.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	177417	175545	175582	176181	0.61	cps
Cobalt	59-2	37684	36655	36965	37101	1.42	cps
Copper	63-2	16172	15241	15395	15603	3.20	cps
Dysprosium	156-1	17725	17478	17992	17731	1.45	cps
Dysprosium	156-2	18245	17681	18616	18181	2.59	cps
Erbium	164-1	13023	13240	13306	13190	1.12	cps
Erbium	164-2	9950	10347	9874	10057	2.53	cps
Gadolinium	160-1	15452	15439	16043	15644	2.20	cps
Gadolinium	160-2	13183	12976	13200	13120	0.95	cps
Holmium	165-1	12698722	11961956	12089716	12250131	3.21	cps
Holmium	165-2	9108397	9189128	9042229	9113251	0.81	cps
Indium	115-1	9619176	9136491	9188993	9314887	2.84	cps
Indium	115-2	4094337	4078703	4036352	4069798	0.74	cps
Iron	56-2	66263597	66599846	65614627	66159357	0.76	cps
Iron	57-2	1630234	1629585	1626145	1628655	0.13	cps
Iron	54-2	3598650	3609117	3563006	3590258	0.67	cps
Krypton	83-1	230	207	203	213	6.81	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	220106	225929	226194	224076	1.54	cps
Lead	207-1	178729	183045	186031	182602	2.01	cps
Lead	208-1	842539	862470	871708	858905	1.74	cps
Lithium	6-1	1192412	1149825	1155331	1165856	1.99	cps
Magnesium	24-2	1822736	1855237	1831736	1836570	0.91	cps
Manganese	55-2	575519	576393	571780	574564	0.43	cps
Molybdenum	94-1	6335	6421	6238	6331	1.45	cps
Molybdenum	95-1	1793	1890	2064	1916	7.14	cps
Molybdenum	96-1	3427	3751	3587	3588	4.51	cps
Molybdenum	97-1	1210	1237	1263	1237	2.16	cps
Molybdenum	98-1	2894	2997	3227	3039	5.62	cps
Neodymium	150-1	31846	32310	31936	32031	0.77	cps
Neodymium	150-2	21643	22318	21306	21756	2.37	cps
Nickel	60-2	29356	29686	29576	29539	0.57	cps
Phosphorus	31-2	2324	2520	2414	2419	4.07	cps
Potassium	39-2	374007	372091	371441	372513	0.36	cps
Rhodium	103-1	8699302	8399283	8311329	8469971	2.40	cps
Rhodium	103-2	5540483	5532816	5468145	5513814	0.72	cps
Scandium	45-1	4593901	4406268	4358858	4453009	2.79	cps
Scandium	45-2	514152	519738	514665	516185	0.60	cps
Selenium	82-1	445	476	516	479	7.44	cps
Selenium	77-2	57	53	47	52	9.75	cps
Selenium	78-2	617	610	593	607	1.98	cps
Silicon	28-1	4393227	4368843	4359231	4373767	0.40	cps
Silver	107-1	670	700	633	668	5.00	cps
Silver	109-1	580	643	647	623	6.03	cps
Sodium	23-2	129234	129139	128531	128968	0.30	cps
Strontium	86-1	26253	26891	27008	26718	1.52	cps
Strontium	88-1	231945	238049	238814	236270	1.59	cps
Sulfur	34-1	106323	106686	106008	106339	0.32	cps
Terbium	159-1	12759554	12263916	12092969	12372146	2.80	cps
Terbium	159-2	9041088	8971763	8849469	8954107	1.08	cps
Thallium	203-1	2514	2640	2490	2548	3.17	cps
Thallium	205-1	6395	6498	6305	6399	1.51	cps
Tin	118-1	3444	3554	3327	3442	3.29	cps
Titanium	47-1	588946	598218	598673	595279	0.92	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-16	Instrumnet Name :	P7
Client Sample ID :	A6347	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:23:23	DataFile Name :	059SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	61317	64056	62814	62729	2.19	cps
Vanadium	51-2	110833	110705	111545	111028	0.41	cps
Yttrium	89-1	16395411	15514385	15583326	15831041	3.10	cps
Yttrium	89-2	5310996	5203729	5212304	5242343	1.14	cps
Zinc	66-2	34714	34804	34931	34816	0.31	cps
Zirconium	90-1	14120	14260	14404	14262	0.99	cps
Zirconium	91-1	3027	3257	3144	3143	3.66	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3681449	3669819	3633201	3661490	0.69	cps
Antimony	121-1	2734	2694	2854	2760	3.02	cps
Arsenic	75-2	44771	44316	44376	44488	0.56	cps
Barium	135-1	260955	261728	260421	261034	0.25	cps
Barium	137-1	452896	449777	451694	451456	0.35	cps
Beryllium	9-1	2130	2134	2150	2138	0.50	cps
Bismuth	209-1	7666183	7760212	7785103	7737166	0.81	cps
Bismuth	209-2	6436985	6448036	6300458	6395160	1.29	cps
Bromine	81-1	31898	32185	32690	32257	1.24	cps
Bromine	81-2	4591	4387	4714	4564	3.62	cps
Cadmium	108-1	6515	6692	6822	6676	2.31	cps
Cadmium	106-1	11695	11925	11648	11756	1.26	cps
Cadmium	111-1	5719	5994	5442	5718	4.82	cps
Calcium	43-1	298593	300715	300785	300031	0.42	cps
Calcium	44-1	4741092	4771417	4720222	4744244	0.54	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2256717	2239008	2278831	2258185	0.88	cps
Cobalt	59-2	51127	52036	51130	51431	1.02	cps
Copper	63-2	3812110	3862587	3713298	3795998	2.00	cps
Dysprosium	156-1	13593	14097	14004	13898	1.93	cps
Dysprosium	156-2	13790	13663	13677	13710	0.51	cps
Erbium	164-1	12669	12352	12452	12491	1.30	cps
Erbium	164-2	9503	9440	9233	9392	1.50	cps
Gadolinium	160-1	12682	13183	12929	12932	1.94	cps
Gadolinium	160-2	10734	10804	10707	10749	0.46	cps
Holmium	165-1	12151194	12404408	12402368	12319324	1.18	cps
Holmium	165-2	9195476	9257927	9072196	9175200	1.03	cps
Indium	115-1	8985642	9125139	9166466	9092416	1.04	cps
Indium	115-2	4081256	4075356	4044748	4067120	0.48	cps
Iron	56-2	114790378	113741535	114671958	114401291	0.50	cps
Iron	57-2	2849333	2812516	2811719	2824523	0.76	cps
Iron	54-2	6286985	6206965	6272122	6255357	0.68	cps
Krypton	83-1	180	190	153	174	10.86	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2375129	2381534	2416442	2391035	0.93	cps
Lead	207-1	1933567	1917558	1970962	1940696	1.41	cps
Lead	208-1	9115275	9093870	9243908	9151018	0.89	cps
Lithium	6-1	1197005	1188745	1174212	1186654	0.97	cps
Magnesium	24-2	952693	956307	938042	949014	1.02	cps
Manganese	55-2	4440382	4435197	4448631	4441404	0.15	cps
Molybdenum	94-1	7262	7302	7148	7237	1.10	cps
Molybdenum	95-1	8639	8593	8409	8547	1.42	cps
Molybdenum	96-1	10657	10707	10817	10727	0.76	cps
Molybdenum	97-1	5144	5488	5338	5323	3.23	cps
Molybdenum	98-1	13496	13676	13236	13470	1.64	cps
Neodymium	150-1	22478	22648	22738	22622	0.58	cps
Neodymium	150-2	15282	15045	15295	15207	0.93	cps
Nickel	60-2	141079	141392	140669	141047	0.26	cps
Phosphorus	31-2	11835	11181	11785	11600	3.14	cps
Potassium	39-2	505959	505812	512601	508124	0.76	cps
Rhodium	103-1	8383913	8495184	8469480	8449526	0.69	cps
Rhodium	103-2	5604680	5601417	5537272	5581123	0.68	cps
Scandium	45-1	4429881	4425607	4416512	4424000	0.15	cps
Scandium	45-2	513843	513594	518875	515437	0.58	cps
Selenium	82-1	521	531	552	535	2.90	cps
Selenium	77-2	47	73	53	58	24.02	cps
Selenium	78-2	637	617	567	607	5.94	cps
Silicon	28-1	7746172	7662553	7638582	7682436	0.74	cps
Silver	107-1	15151	14958	15131	15080	0.71	cps
Silver	109-1	14120	14444	14257	14274	1.14	cps
Sodium	23-2	1300150	1288666	1247386	1278734	2.17	cps
Strontium	86-1	309012	309745	309109	309289	0.13	cps
Strontium	88-1	2786965	2786462	2796426	2789951	0.20	cps
Sulfur	34-1	170233	171949	172121	171434	0.61	cps
Terbium	159-1	12309093	12387769	12522925	12406596	0.87	cps
Terbium	159-2	9089382	9155121	8999572	9081358	0.86	cps
Thallium	203-1	1493	1577	1497	1522	3.10	cps
Thallium	205-1	3784	3564	3734	3694	3.12	cps
Tin	118-1	4376429	4370074	4446383	4397629	0.96	cps
Titanium	47-1	249403	251489	250165	250352	0.42	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:26:37	DataFile Name :	060SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	36390	37566	37242	37066	1.64	cps
Vanadium	51-2	61059	60835	60598	60831	0.38	cps
Yttrium	89-1	15850972	15909594	15842609	15867725	0.23	cps
Yttrium	89-2	5312186	5275653	5281359	5289733	0.37	cps
Zinc	66-2	87786	89935	89311	89011	1.24	cps
Zirconium	90-1	5748	5955	5998	5900	2.27	cps
Zirconium	91-1	1323	1380	1297	1333	3.19	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3920295	3913650	3891616	3908520	0.38	cps
Antimony	121-1	3014	3044	3164	3074	2.58	cps
Arsenic	75-2	48850	48850	48937	48879	0.10	cps
Barium	135-1	280554	282725	283058	282112	0.48	cps
Barium	137-1	485903	495717	491313	490978	1.00	cps
Beryllium	9-1	2287	2230	2230	2249	1.45	cps
Bismuth	209-1	7694758	7829058	7611552	7711789	1.42	cps
Bismuth	209-2	6390366	6324829	6386786	6367327	0.58	cps
Bromine	81-1	33364	34203	34036	33868	1.31	cps
Bromine	81-2	4787	4941	5124	4951	3.41	cps
Cadmium	108-1	7359	7529	7539	7475	1.35	cps
Cadmium	106-1	12339	12869	12796	12668	2.27	cps
Cadmium	111-1	6096	6332	6364	6264	2.33	cps
Calcium	43-1	317580	318627	320005	318738	0.38	cps
Calcium	44-1	5061569	5073105	5049412	5061362	0.23	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2537460	2519493	2551521	2536158	0.63	cps
Cobalt	59-2	56071	55408	55646	55708	0.60	cps
Copper	63-2	4134088	4160119	4132711	4142306	0.37	cps
Dysprosium	156-1	15619	15832	15906	15786	0.94	cps
Dysprosium	156-2	15589	15205	15539	15444	1.35	cps
Erbium	164-1	13560	13530	13980	13690	1.84	cps
Erbium	164-2	10441	10291	10507	10413	1.07	cps
Gadolinium	160-1	14191	14668	14468	14442	1.66	cps
Gadolinium	160-2	11745	12272	11888	11969	2.28	cps
Holmium	165-1	12537868	12437769	12241534	12405724	1.22	cps
Holmium	165-2	9143187	9163012	9110684	9138961	0.29	cps
Indium	115-1	9210740	9121369	9095772	9142627	0.66	cps
Indium	115-2	4091850	4009708	4048986	4050181	1.01	cps
Iron	56-2	126110815	125820425	125283341	125738194	0.33	cps
Iron	57-2	3165781	3119196	3120898	3135292	0.84	cps
Iron	54-2	6859298	6880186	6776753	6838745	0.80	cps
Krypton	83-1	230	227	203	220	6.60	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2610039	2700196	2663494	2657909	1.71	cps
Lead	207-1	2131414	2215512	2165510	2170812	1.95	cps
Lead	208-1	10015152	10268974	10238753	10174293	1.36	cps
Lithium	6-1	1186787	1161065	1160425	1169426	1.29	cps
Magnesium	24-2	1037460	1030146	1034418	1034008	0.36	cps
Manganese	55-2	4758512	4664272	4704621	4709135	1.00	cps
Molybdenum	94-1	7502	7829	7802	7711	2.35	cps
Molybdenum	95-1	9086	9250	9236	9191	0.99	cps
Molybdenum	96-1	11728	12002	11718	11816	1.36	cps
Molybdenum	97-1	5671	5985	5948	5868	2.92	cps
Molybdenum	98-1	14758	15111	15148	15006	1.44	cps
Neodymium	150-1	24692	25734	25894	25440	2.57	cps
Neodymium	150-2	16927	17554	16900	17127	2.16	cps
Nickel	60-2	153422	153806	152593	153274	0.40	cps
Phosphorus	31-2	12295	12418	12075	12263	1.42	cps
Potassium	39-2	566666	555324	561161	561051	1.01	cps
Rhodium	103-1	8559784	8493868	8382457	8478703	1.06	cps
Rhodium	103-2	5623015	5539185	5594697	5585632	0.76	cps
Scandium	45-1	4520916	4401237	4386452	4436202	1.66	cps
Scandium	45-2	517164	507975	515361	513500	0.95	cps
Selenium	82-1	460	510	532	501	7.40	cps
Selenium	77-2	40	63	43	49	25.81	cps
Selenium	78-2	603	553	597	584	4.64	cps
Silicon	28-1	8080938	8179835	8191701	8150825	0.75	cps
Silver	107-1	16843	16813	16666	16774	0.56	cps
Silver	109-1	15705	16049	15849	15868	1.09	cps
Sodium	23-2	1361793	1327593	1349254	1346214	1.29	cps
Strontium	86-1	329021	332264	331217	330834	0.50	cps
Strontium	88-1	3010005	3061437	2991821	3021088	1.20	cps
Sulfur	34-1	183217	182910	180815	182314	0.72	cps
Terbium	159-1	12608342	12455836	12274694	12446290	1.34	cps
Terbium	159-2	9153187	8883962	8961380	8999509	1.54	cps
Thallium	203-1	1660	1617	1623	1633	1.43	cps
Thallium	205-1	3707	3761	3550	3673	2.97	cps
Tin	118-1	4871074	4987920	4969313	4942769	1.27	cps
Titanium	47-1	280587	281853	279833	280758	0.36	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-06DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305D	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:29:38	DataFile Name :	061SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	40675	41859	40829	41121	1.57	cps
Vanadium	51-2	67510	68330	67413	67751	0.74	cps
Yttrium	89-1	16325409	15931928	15770864	16009401	1.78	cps
Yttrium	89-2	5367988	5263443	5388479	5339970	1.26	cps
Zinc	66-2	95808	95909	94772	95496	0.66	cps
Zirconium	90-1	6685	6602	6502	6596	1.39	cps
Zirconium	91-1	1483	1507	1453	1481	1.81	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	806527	798306	800778	801870	0.53	cps
Antimony	121-1	673	683	663	673	1.49	cps
Arsenic	75-2	10050	9720	10007	9926	1.81	cps
Barium	135-1	55320	57271	57914	56835	2.38	cps
Barium	137-1	97009	99649	99989	98882	1.65	cps
Beryllium	9-1	507	503	513	508	1.00	cps
Bismuth	209-1	8197514	7644289	7604996	7815600	4.24	cps
Bismuth	209-2	6241706	6311010	6263122	6271946	0.57	cps
Bromine	81-1	18879	19820	19803	19501	2.76	cps
Bromine	81-2	1217	1133	1143	1165	3.91	cps
Cadmium	108-1	1493	1473	1653	1540	6.41	cps
Cadmium	106-1	6718	6518	6131	6456	4.62	cps
Cadmium	111-1	4164	4001	3628	3931	6.99	cps
Calcium	43-1	63542	66950	66230	65574	2.74	cps
Calcium	44-1	1053141	1079152	1085384	1072559	1.59	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	497479	495595	493926	495667	0.36	cps
Cobalt	59-2	11321	11678	11428	11476	1.60	cps
Copper	63-2	818572	815350	812806	815576	0.35	cps
Dysprosium	156-1	2990	3090	3017	3033	1.71	cps
Dysprosium	156-2	2810	3090	3050	2984	5.08	cps
Erbium	164-1	2547	2740	2784	2690	4.68	cps
Erbium	164-2	2014	2060	1973	2016	2.15	cps
Gadolinium	160-1	2910	2904	2984	2933	1.51	cps
Gadolinium	160-2	2477	2530	2637	2548	3.20	cps
Holmium	165-1	12867525	12046710	11972231	12295489	4.04	cps
Holmium	165-2	8906691	9040952	9073854	9007166	0.98	cps
Indium	115-1	9818352	9135686	9069631	9341223	4.44	cps
Indium	115-2	4038151	4042701	4057007	4045953	0.24	cps
Iron	56-2	25217037	24972999	24953754	25047930	0.59	cps
Iron	57-2	637880	636030	636150	636687	0.16	cps
Iron	54-2	1373575	1378668	1396093	1382779	0.85	cps
Krypton	83-1	197	157	213	189	15.42	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	477000	482774	487689	482487	1.11	cps
Lead	207-1	378074	390503	387764	385447	1.69	cps
Lead	208-1	1793294	1836228	1837321	1822281	1.38	cps
Lithium	6-1	1221857	1124677	1118816	1155117	5.01	cps
Magnesium	24-2	213694	212810	215255	213920	0.58	cps
Manganese	55-2	950138	953809	955323	953090	0.28	cps
Molybdenum	94-1	1757	1777	1920	1818	4.90	cps
Molybdenum	95-1	1817	1940	2134	1963	8.13	cps
Molybdenum	96-1	2457	2650	2460	2522	4.39	cps
Molybdenum	97-1	1173	1197	1257	1209	3.56	cps
Molybdenum	98-1	3024	3227	3144	3131	3.27	cps
Neodymium	150-1	5024	4934	5128	5029	1.92	cps
Neodymium	150-2	3544	3564	3617	3575	1.06	cps
Nickel	60-2	32509	32692	33213	32805	1.11	cps
Phosphorus	31-2	2784	2804	2790	2793	0.36	cps
Potassium	39-2	160674	160361	160816	160617	0.14	cps
Rhodium	103-1	9039570	8389756	8449391	8626239	4.16	cps
Rhodium	103-2	5575520	5570765	5522517	5556267	0.53	cps
Scandium	45-1	4720055	4389493	4352118	4487222	4.51	cps
Scandium	45-2	508519	512892	514409	511940	0.60	cps
Selenium	82-1	403	445	406	418	5.49	cps
Selenium	77-2	20	17	17	18	10.81	cps
Selenium	78-2	587	513	543	548	6.73	cps
Silicon	28-1	2277999	2379335	2329554	2328963	2.18	cps
Silver	107-1	3347	3464	3290	3367	2.63	cps
Silver	109-1	2914	3007	3230	3050	5.34	cps
Sodium	23-2	300215	298620	297749	298861	0.42	cps
Strontium	86-1	66027	67818	67909	67251	1.58	cps
Strontium	88-1	579704	602861	602229	594932	2.22	cps
Sulfur	34-1	117557	120386	121189	119711	1.59	cps
Terbium	159-1	13123639	12133396	12134993	12464010	4.58	cps
Terbium	159-2	8848718	8966205	8945231	8920051	0.70	cps
Thallium	203-1	440	477	393	437	9.57	cps
Thallium	205-1	1010	1107	1023	1047	5.01	cps
Tin	118-1	899469	930085	928746	919433	1.88	cps
Titanium	47-1	53267	54126	54585	53993	1.24	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05LDLX10	Instrumnet Name :	P7
Client Sample ID :	A6305L	Dilution Factor :	10
Date & Time Acquired :	2025-02-02 17:32:39	DataFile Name :	062SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7639	8033	8109	7927	3.18	cps
Vanadium	51-2	13856	13626	13806	13763	0.88	cps
Yttrium	89-1	16815855	15527769	15629004	15990876	4.48	cps
Yttrium	89-2	5266442	5233969	5198365	5232926	0.65	cps
Zinc	66-2	20805	20561	20581	20649	0.66	cps
Zirconium	90-1	1843	1633	1757	1745	6.05	cps
Zirconium	91-1	400	333	357	363	9.31	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3957146	3875764	3871611	3901507	1.24	cps
Antimony	121-1	67454	68977	68676	68369	1.18	cps
Arsenic	75-2	54011	53680	54232	53974	0.51	cps
Barium	135-1	755010	757920	753310	755414	0.31	cps
Barium	137-1	1316375	1306779	1305617	1309590	0.45	cps
Beryllium	9-1	6888	6958	7005	6950	0.85	cps
Bismuth	209-1	7729036	7793844	7557066	7693315	1.59	cps
Bismuth	209-2	6428514	6292675	6391261	6370817	1.10	cps
Bromine	81-1	32312	33304	34547	33388	3.35	cps
Bromine	81-2	4888	4731	4747	4789	1.80	cps
Cadmium	108-1	8392	8609	8613	8538	1.48	cps
Cadmium	106-1	14164	13827	13817	13936	1.42	cps
Cadmium	111-1	18307	17369	17673	17783	2.69	cps
Calcium	43-1	306708	309904	307671	308094	0.53	cps
Calcium	44-1	4855045	4843172	4871174	4856464	0.29	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2306847	2271732	2331746	2303442	1.31	cps
Cobalt	59-2	367177	365709	366758	366548	0.21	cps
Copper	63-2	4389402	4401686	4297037	4362708	1.31	cps
Dysprosium	156-1	16536	16613	16446	16532	0.51	cps
Dysprosium	156-2	15822	16259	15866	15982	1.51	cps
Erbium	164-1	14521	14154	14945	14540	2.72	cps
Erbium	164-2	10904	10861	11125	10963	1.29	cps
Gadolinium	160-1	15355	15208	15479	15347	0.88	cps
Gadolinium	160-2	12379	12426	12639	12481	1.11	cps
Holmium	165-1	12449568	12170982	12246910	12289153	1.17	cps
Holmium	165-2	9290238	9136114	9127479	9184610	1.00	cps
Indium	115-1	9127464	9124396	9072782	9108214	0.34	cps
Indium	115-2	4105884	4047193	4028553	4060544	0.99	cps
Iron	56-2	126075958	126710835	127505381	126764058	0.56	cps
Iron	57-2	3132153	3142734	3141630	3138839	0.19	cps
Iron	54-2	6859466	6928761	7023933	6937387	1.19	cps
Krypton	83-1	197	230	167	198	16.02	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2648809	2706692	2688874	2681458	1.11	cps
Lead	207-1	2181544	2194011	2166879	2180812	0.62	cps
Lead	208-1	10277348	10411764	10270975	10320029	0.77	cps
Lithium	6-1	1157712	1148520	1190219	1165484	1.88	cps
Magnesium	24-2	1073912	1058398	1044362	1058891	1.40	cps
Manganese	55-2	4436699	4485668	4515678	4479348	0.89	cps
Molybdenum	94-1	7862	7699	7899	7820	1.36	cps
Molybdenum	95-1	9517	9650	9510	9559	0.83	cps
Molybdenum	96-1	11938	12285	12375	12200	1.89	cps
Molybdenum	97-1	5811	5961	5981	5918	1.57	cps
Molybdenum	98-1	15111	15081	15228	15140	0.51	cps
Neodymium	150-1	26956	26632	27423	27004	1.47	cps
Neodymium	150-2	17705	18062	17755	17840	1.08	cps
Nickel	60-2	227927	227280	226157	227121	0.39	cps
Phosphorus	31-2	13082	11955	12458	12499	4.52	cps
Potassium	39-2	560856	549399	562174	557476	1.26	cps
Rhodium	103-1	8580382	8516799	8471551	8522911	0.64	cps
Rhodium	103-2	5618944	5589363	5589574	5599294	0.30	cps
Scandium	45-1	4473717	4396752	4379823	4416764	1.13	cps
Scandium	45-2	518620	512464	525484	518856	1.26	cps
Selenium	82-1	723	670	825	739	10.63	cps
Selenium	77-2	73	63	100	79	24.03	cps
Selenium	78-2	740	657	793	730	9.44	cps
Silicon	28-1	7463947	7486051	7513275	7487758	0.33	cps
Silver	107-1	74299	73387	74111	73932	0.65	cps
Silver	109-1	67894	69415	70557	69289	1.93	cps
Sodium	23-2	1319867	1316167	1286463	1307499	1.40	cps
Strontium	86-1	318629	321708	321152	320496	0.51	cps
Strontium	88-1	2876292	2893889	2912861	2894347	0.63	cps
Sulfur	34-1	180795	181206	180094	180699	0.31	cps
Terbium	159-1	12347924	12329091	12235919	12304311	0.49	cps
Terbium	159-2	9107295	9023700	9057687	9062894	0.46	cps
Thallium	203-1	44914	45375	45824	45371	1.00	cps
Thallium	205-1	106953	107655	107390	107332	0.33	cps
Tin	118-1	4914861	4857032	4860629	4877508	0.66	cps
Titanium	47-1	297835	300327	298829	298997	0.42	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-07DLX2	Instrumnet Name :	P7
Client Sample ID :	A6305S	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:35:53	DataFile Name :	063SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	41127	40628	40726	40827	0.65	cps
Vanadium	51-2	250638	250080	254241	251653	0.90	cps
Yttrium	89-1	16005581	15837817	16151256	15998218	0.98	cps
Yttrium	89-2	5375633	5334732	5372634	5361000	0.43	cps
Zinc	66-2	131990	130679	130426	131032	0.64	cps
Zirconium	90-1	6718	6618	6805	6714	1.39	cps
Zirconium	91-1	1580	1650	1500	1577	4.76	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1387316	1381375	1387614	1385435	0.25	cps
Antimony	121-1	3540	3540	3781	3620	3.83	cps
Arsenic	75-2	10497	10611	10904	10671	1.97	cps
Barium	135-1	62590	62131	62811	62511	0.55	cps
Barium	137-1	108275	107815	108275	108121	0.25	cps
Beryllium	9-1	410	317	330	352	14.33	cps
Bismuth	209-1	7827997	7846353	7745498	7806616	0.69	cps
Bismuth	209-2	6385954	6315110	6299792	6333619	0.73	cps
Bromine	81-1	18482	18382	18348	18404	0.38	cps
Bromine	81-2	730	877	870	826	10.03	cps
Cadmium	108-1	19106	18679	19263	19016	1.59	cps
Cadmium	106-1	23800	23613	23836	23749	0.51	cps
Cadmium	111-1	3419	3567	3345	3444	3.28	cps
Calcium	43-1	13676	14567	14120	14121	3.15	cps
Calcium	44-1	239617	239526	235846	238330	0.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3453142	3467521	3491678	3470781	0.56	cps
Cobalt	59-2	20083	20124	20337	20181	0.68	cps
Copper	63-2	2503794	2505467	2568019	2525760	1.45	cps
Dysprosium	156-1	11501	11918	11321	11580	2.65	cps
Dysprosium	156-2	11118	10931	11365	11138	1.95	cps
Erbium	164-1	10184	9777	10194	10051	2.37	cps
Erbium	164-2	7219	7465	7539	7408	2.26	cps
Gadolinium	160-1	10621	10774	10671	10689	0.73	cps
Gadolinium	160-2	8599	8930	8846	8792	1.95	cps
Holmium	165-1	12371334	12450408	12262770	12361504	0.76	cps
Holmium	165-2	9121321	9098407	9148982	9122903	0.28	cps
Indium	115-1	9238967	9312238	9033066	9194757	1.57	cps
Indium	115-2	4007806	4045074	3963973	4005618	1.01	cps
Iron	56-2	46136491	46048144	46626059	46270232	0.67	cps
Iron	57-2	1150121	1147316	1158332	1151923	0.50	cps
Iron	54-2	2610383	2651428	2645997	2635936	0.85	cps
Krypton	83-1	237	187	260	228	16.45	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1583732	1597939	1605330	1595667	0.69	cps
Lead	207-1	1259095	1272332	1278108	1269845	0.77	cps
Lead	208-1	6256925	6315745	6369540	6314070	0.89	cps
Lithium	6-1	1140334	1139584	1120720	1133546	0.98	cps
Magnesium	24-2	604850	609188	611146	608394	0.53	cps
Manganese	55-2	395665	394532	397892	396030	0.43	cps
Molybdenum	94-1	4274	4001	3884	4053	4.94	cps
Molybdenum	95-1	4461	4584	4487	4511	1.44	cps
Molybdenum	96-1	5611	5881	5928	5807	2.95	cps
Molybdenum	97-1	3004	2904	2744	2884	4.55	cps
Molybdenum	98-1	7632	7459	7562	7551	1.16	cps
Neodymium	150-1	19280	19650	19644	19525	1.09	cps
Neodymium	150-2	12699	13396	13079	13058	2.67	cps
Nickel	60-2	28681	28758	29325	28921	1.22	cps
Phosphorus	31-2	6261	6395	6231	6296	1.38	cps
Potassium	39-2	433741	439867	438578	437395	0.74	cps
Rhodium	103-1	8660984	8654703	8518887	8611524	0.93	cps
Rhodium	103-2	5688265	5681931	5557116	5642437	1.31	cps
Scandium	45-1	4500120	4502992	4385527	4462880	1.50	cps
Scandium	45-2	515342	515790	519048	516727	0.39	cps
Selenium	82-1	386	482	389	419	13.09	cps
Selenium	77-2	27	33	20	27	24.99	cps
Selenium	78-2	540	623	623	596	8.08	cps
Silicon	28-1	4031823	4068700	4044542	4048355	0.46	cps
Silver	107-1	28832	29386	29403	29207	1.11	cps
Silver	109-1	27593	27379	28040	27671	1.22	cps
Sodium	23-2	62663	62470	62322	62485	0.27	cps
Strontium	86-1	8456	8629	8406	8497	1.38	cps
Strontium	88-1	73077	73301	71807	72729	1.11	cps
Sulfur	34-1	111087	108290	108465	109280	1.43	cps
Terbium	159-1	12590748	12738730	12349445	12559641	1.56	cps
Terbium	159-2	9077665	9044805	8895698	9006056	1.08	cps
Thallium	203-1	990	907	843	913	8.05	cps
Thallium	205-1	2070	2014	2204	2096	4.66	cps
Tin	118-1	9886767	9878112	9738953	9834611	0.84	cps
Titanium	47-1	345451	345964	345303	345573	0.10	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-08DLX2	Instrumnet Name :	P7
Client Sample ID :	A6306	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 17:38:56	DataFile Name :	064SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	29914	30224	29817	29985	0.71	cps
Vanadium	51-2	51839	52839	51688	52122	1.20	cps
Yttrium	89-1	16371169	16065523	15706602	16047765	2.07	cps
Yttrium	89-2	5299943	5328618	5256661	5295074	0.68	cps
Zinc	66-2	21736	22717	22066	22173	2.25	cps
Zirconium	90-1	3577	3964	3741	3761	5.16	cps
Zirconium	91-1	813	873	787	824	5.38	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	34606	34455	32979	34013	2.64	cps
Antimony	121-1	737	720	687	714	3.56	cps
Arsenic	75-2	1593	1583	1727	1635	4.90	cps
Barium	135-1	3827	3814	4021	3887	2.98	cps
Barium	137-1	6421	6662	6745	6609	2.54	cps
Beryllium	9-1	67	53	77	66	17.86	cps
Bismuth	209-1	7627931	7773615	7525661	7642402	1.63	cps
Bismuth	209-2	6358253	6382249	6318253	6352918	0.51	cps
Bromine	81-1	17290	16513	16553	16785	2.61	cps
Bromine	81-2	260	273	263	266	2.61	cps
Cadmium	108-1	8506	8769	8879	8718	2.20	cps
Cadmium	106-1	13623	14260	13783	13889	2.39	cps
Cadmium	111-1	3585	3874	3453	3637	5.92	cps
Calcium	43-1	2420	2500	2367	2429	2.76	cps
Calcium	44-1	46013	47060	45930	46334	1.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1513824	1462535	1483208	1486522	1.74	cps
Cobalt	59-2	717	783	700	733	6.01	cps
Copper	63-2	69500	69102	68810	69138	0.50	cps
Dysprosium	156-1	330	320	320	323	1.79	cps
Dysprosium	156-2	307	340	307	318	6.06	cps
Erbium	164-1	303	257	257	272	9.90	cps
Erbium	164-2	210	163	200	191	12.85	cps
Gadolinium	160-1	287	317	333	312	7.57	cps
Gadolinium	160-2	607	683	653	648	5.96	cps
Holmium	165-1	11986891	12107769	12026389	12040350	0.51	cps
Holmium	165-2	9198831	9073359	8936582	9069591	1.45	cps
Indium	115-1	9103010	9043048	9070356	9072138	0.33	cps
Indium	115-2	4035657	4073350	3998748	4035918	0.92	cps
Iron	56-2	3309783	3301732	3283868	3298461	0.40	cps
Iron	57-2	83933	83346	82722	83334	0.73	cps
Iron	54-2	229699	231613	230372	230561	0.42	cps
Krypton	83-1	213	203	193	203	4.92	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	196252	199511	195555	197106	1.07	cps
Lead	207-1	154999	157937	156803	156580	0.95	cps
Lead	208-1	735449	748507	739975	741310	0.89	cps
Lithium	6-1	1126174	1109603	1094148	1109975	1.44	cps
Magnesium	24-2	14647	14724	15114	14828	1.69	cps
Manganese	55-2	13429	12842	12876	13049	2.53	cps
Molybdenum	94-1	1023	973	970	989	3.02	cps
Molybdenum	95-1	1083	1197	1193	1158	5.57	cps
Molybdenum	96-1	1510	1343	1287	1380	8.41	cps
Molybdenum	97-1	730	897	717	781	12.84	cps
Molybdenum	98-1	1833	1910	1773	1839	3.73	cps
Neodymium	150-1	557	577	530	554	4.22	cps
Neodymium	150-2	397	307	377	360	13.13	cps
Nickel	60-2	3467	3314	3637	3473	4.66	cps
Phosphorus	31-2	1057	1050	967	1024	4.90	cps
Potassium	39-2	78176	78015	78548	78246	0.35	cps
Rhodium	103-1	8516904	8475165	8474112	8488727	0.29	cps
Rhodium	103-2	5617470	5645718	5550606	5604598	0.87	cps
Scandium	45-1	4381729	4340640	4397943	4373438	0.68	cps
Scandium	45-2	515519	510390	508921	511610	0.68	cps
Selenium	82-1	374	373	375	374	0.19	cps
Selenium	77-2	7	0	3	3	100.05	cps
Selenium	78-2	587	587	577	583	0.99	cps
Silicon	28-1	865688	874622	861501	867271	0.77	cps
Silver	107-1	8346	8579	8332	8419	1.65	cps
Silver	109-1	7729	7842	7599	7723	1.58	cps
Sodium	23-2	30494	30560	29408	30154	2.15	cps
Strontium	86-1	1443	1520	1580	1515	4.52	cps
Strontium	88-1	10304	10447	10164	10305	1.38	cps
Sulfur	34-1	105474	103145	103776	104131	1.16	cps
Terbium	159-1	12136608	12240407	12107071	12161362	0.58	cps
Terbium	159-2	8844436	8858669	8919394	8874167	0.45	cps
Thallium	203-1	210	193	187	197	6.11	cps
Thallium	205-1	497	473	447	472	5.30	cps
Tin	118-1	4601392	4576394	4520519	4566102	0.91	cps
Titanium	47-1	19403	18842	19015	19087	1.50	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-10DLX25	Instrumnet Name :	P7
Client Sample ID :	A6308	Dilution Factor :	25
Date & Time Acquired :	2025-02-02 17:42:01	DataFile Name :	065SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1040	813	943	932	12.20	cps
Vanadium	51-2	4297	4144	4084	4175	2.64	cps
Yttrium	89-1	15606638	15770652	15475945	15617745	0.95	cps
Yttrium	89-2	5290211	5191095	5184036	5221780	1.14	cps
Zinc	66-2	1643	1637	1720	1667	2.78	cps
Zirconium	90-1	747	740	760	749	1.36	cps
Zirconium	91-1	190	207	213	203	5.91	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	687724	687004	682272	685667	0.43	cps
Antimony	121-1	503	343	383	410	20.31	cps
Arsenic	75-2	4861	4944	5031	4945	1.72	cps
Barium	135-1	47305	47629	46332	47088	1.43	cps
Barium	137-1	82075	81458	81445	81659	0.44	cps
Beryllium	9-1	217	210	203	210	3.17	cps
Bismuth	209-1	7285927	7525390	7539522	7450280	1.91	cps
Bismuth	209-2	6361604	6356463	6272716	6330261	0.79	cps
Bromine	81-1	17183	16362	16606	16717	2.52	cps
Bromine	81-2	337	247	280	288	15.81	cps
Cadmium	108-1	1960	1913	2030	1968	2.98	cps
Cadmium	106-1	6905	6515	6555	6658	3.22	cps
Cadmium	111-1	3641	3381	3317	3447	4.98	cps
Calcium	43-1	11571	11571	11578	11573	0.03	cps
Calcium	44-1	199186	198870	196509	198188	0.74	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2778228	2757492	2781210	2772310	0.47	cps
Cobalt	59-2	9870	10260	9957	10029	2.04	cps
Copper	63-2	1889329	1891955	1919440	1900242	0.88	cps
Dysprosium	156-1	6845	7029	7225	7033	2.70	cps
Dysprosium	156-2	6818	6392	6475	6562	3.45	cps
Erbium	164-1	5985	6078	5801	5955	2.36	cps
Erbium	164-2	4644	4467	4377	4496	3.02	cps
Gadolinium	160-1	6792	6698	6762	6751	0.71	cps
Gadolinium	160-2	5578	5645	5618	5613	0.60	cps
Holmium	165-1	11619146	11989254	12019050	11875817	1.88	cps
Holmium	165-2	9128394	9079097	9035805	9081098	0.51	cps
Indium	115-1	8811484	9013303	9072733	8965840	1.53	cps
Indium	115-2	4097057	4066897	4081447	4081800	0.37	cps
Iron	56-2	13312948	12910890	13174620	13132820	1.56	cps
Iron	57-2	334249	330173	333051	332491	0.63	cps
Iron	54-2	820064	815718	818179	817987	0.27	cps
Krypton	83-1	217	187	167	190	13.25	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	245787	246048	246826	246220	0.22	cps
Lead	207-1	195519	196382	195348	195749	0.28	cps
Lead	208-1	926096	931698	932944	930246	0.39	cps
Lithium	6-1	1082253	1113373	1108331	1101319	1.52	cps
Magnesium	24-2	271113	269602	268747	269821	0.44	cps
Manganese	55-2	186379	184540	184817	185245	0.54	cps
Molybdenum	94-1	1650	1810	1860	1773	6.19	cps
Molybdenum	95-1	1570	1430	1723	1575	9.32	cps
Molybdenum	96-1	2190	2003	2007	2067	5.17	cps
Molybdenum	97-1	1067	1010	977	1018	4.47	cps
Molybdenum	98-1	2514	2544	2460	2506	1.68	cps
Neodymium	150-1	12262	12122	12195	12193	0.57	cps
Neodymium	150-2	8433	7922	8112	8156	3.16	cps
Nickel	60-2	23896	24276	24704	24292	1.66	cps
Phosphorus	31-2	2174	2154	2167	2165	0.47	cps
Potassium	39-2	212939	210735	212286	211987	0.53	cps
Rhodium	103-1	8201340	8439987	8444338	8361888	1.66	cps
Rhodium	103-2	5623804	5519253	5519131	5554063	1.09	cps
Scandium	45-1	4221129	4365599	4353603	4313444	1.86	cps
Scandium	45-2	512126	512388	504860	509791	0.84	cps
Selenium	82-1	390	438	451	426	7.57	cps
Selenium	77-2	23	10	23	19	40.75	cps
Selenium	78-2	577	627	580	594	4.70	cps
Silicon	28-1	2495950	2445969	2486898	2476272	1.08	cps
Silver	107-1	7309	7429	7305	7347	0.96	cps
Silver	109-1	6882	6702	6882	6822	1.52	cps
Sodium	23-2	70822	69941	70095	70286	0.67	cps
Strontium	86-1	13026	12859	12662	12849	1.42	cps
Strontium	88-1	111925	111152	111952	111676	0.41	cps
Sulfur	34-1	118344	115314	112386	115348	2.58	cps
Terbium	159-1	11827914	12061988	12129021	12006308	1.32	cps
Terbium	159-2	8855815	8938415	8838653	8877628	0.60	cps
Thallium	203-1	557	530	530	539	2.86	cps
Thallium	205-1	1320	1297	1237	1285	3.35	cps
Tin	118-1	1328900	1329031	1325155	1327695	0.17	cps
Titanium	47-1	86482	85744	85838	86021	0.47	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-13DLX5	Instrumnet Name :	P7
Client Sample ID :	A6321	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:45:14	DataFile Name :	066SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	27829	27946	27822	27866	0.25	cps
Vanadium	51-2	20671	20287	20471	20476	0.94	cps
Yttrium	89-1	15214494	15464273	15598046	15425604	1.26	cps
Yttrium	89-2	5264079	5278522	5223780	5255460	0.54	cps
Zinc	66-2	23365	23929	23445	23580	1.29	cps
Zirconium	90-1	2094	2140	2077	2104	1.56	cps
Zirconium	91-1	480	430	453	454	5.51	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	985898	987413	979352	984221	0.44	cps
Antimony	121-1	1907	2060	1913	1960	4.42	cps
Arsenic	75-2	37146	36191	36799	36712	1.32	cps
Barium	135-1	141864	142131	141911	141969	0.10	cps
Barium	137-1	244816	247311	245660	245929	0.52	cps
Beryllium	9-1	663	657	643	654	1.56	cps
Bismuth	209-1	7526431	7463891	7479978	7490100	0.43	cps
Bismuth	209-2	6252341	6366911	6235233	6284829	1.14	cps
Bromine	81-1	18572	19106	19126	18934	1.66	cps
Bromine	81-2	1033	873	1023	977	9.18	cps
Cadmium	108-1	1263	1297	1200	1253	3.92	cps
Cadmium	106-1	6788	6055	5991	6278	7.06	cps
Cadmium	111-1	5214	4717	4664	4865	6.24	cps
Calcium	43-1	63552	64205	64101	63953	0.55	cps
Calcium	44-1	1051496	1063293	1058762	1057850	0.56	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2469469	2473207	2436427	2459701	0.82	cps
Cobalt	59-2	46221	47254	46318	46598	1.22	cps
Copper	63-2	1286262	1285423	1281692	1284459	0.19	cps
Dysprosium	156-1	11645	12045	11205	11632	3.62	cps
Dysprosium	156-2	11198	11555	11058	11270	2.27	cps
Erbium	164-1	10177	9997	10361	10178	1.79	cps
Erbium	164-2	7896	7702	7686	7761	1.50	cps
Gadolinium	160-1	11515	11265	11158	11312	1.62	cps
Gadolinium	160-2	9337	9086	8923	9115	2.29	cps
Holmium	165-1	12034129	11971679	12016152	12007320	0.27	cps
Holmium	165-2	9080279	9096005	8945484	9040590	0.92	cps
Indium	115-1	9108526	9114302	8995839	9072889	0.74	cps
Indium	115-2	4044340	4056779	4062896	4054672	0.23	cps
Iron	56-2	133305935	134786901	132895938	133662925	0.74	cps
Iron	57-2	3312972	3298957	3281568	3297832	0.48	cps
Iron	54-2	7342813	7389304	7282159	7338092	0.73	cps
Krypton	83-1	193	210	237	213	10.25	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	376878	382451	381554	380294	0.79	cps
Lead	207-1	299968	304925	307877	304257	1.31	cps
Lead	208-1	1429127	1451111	1450824	1443687	0.87	cps
Lithium	6-1	1112180	1125402	1107229	1114937	0.84	cps
Magnesium	24-2	407414	408057	406960	407477	0.14	cps
Manganese	55-2	1565220	1531789	1501651	1532887	2.07	cps
Molybdenum	94-1	4251	4197	4231	4226	0.64	cps
Molybdenum	95-1	4727	4577	4324	4543	4.49	cps
Molybdenum	96-1	6872	6795	6822	6829	0.57	cps
Molybdenum	97-1	2980	2850	2827	2886	2.86	cps
Molybdenum	98-1	7409	7559	7255	7407	2.05	cps
Neodymium	150-1	19877	20472	20074	20141	1.50	cps
Neodymium	150-2	13270	13707	13420	13465	1.65	cps
Nickel	60-2	44954	44299	43506	44253	1.64	cps
Phosphorus	31-2	7649	7605	7492	7582	1.07	cps
Potassium	39-2	335426	332606	333408	333813	0.44	cps
Rhodium	103-1	8431302	8367000	8445865	8414722	0.50	cps
Rhodium	103-2	5538834	5608926	5464197	5537319	1.31	cps
Scandium	45-1	4423071	4432530	4392997	4416199	0.47	cps
Scandium	45-2	511642	515101	509090	511944	0.59	cps
Selenium	82-1	436	489	376	434	13.05	cps
Selenium	77-2	57	47	23	42	40.52	cps
Selenium	78-2	637	650	643	643	1.04	cps
Silicon	28-1	6141639	6182248	6167676	6163855	0.33	cps
Silver	107-1	7952	8096	8369	8139	2.60	cps
Silver	109-1	7859	7382	7959	7733	3.99	cps
Sodium	23-2	270253	268985	269466	269568	0.24	cps
Strontium	86-1	59988	59198	59941	59709	0.74	cps
Strontium	88-1	522549	525002	528662	525404	0.59	cps
Sulfur	34-1	148328	147722	143950	146667	1.62	cps
Terbium	159-1	12144869	12217912	12086529	12149770	0.54	cps
Terbium	159-2	8896862	8948724	8818111	8887899	0.74	cps
Thallium	203-1	1047	1130	1060	1079	4.15	cps
Thallium	205-1	2594	2584	2610	2596	0.52	cps
Tin	118-1	781530	787618	788519	785889	0.48	cps
Titanium	47-1	154377	155479	154372	154743	0.41	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-14DLX5	Instrumnet Name :	P7
Client Sample ID :	A6322	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:48:24	DataFile Name :	067SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	40301	40883	41050	40744	0.97	cps
Vanadium	51-2	56328	56947	56137	56471	0.75	cps
Yttrium	89-1	15770865	15754122	15940421	15821803	0.65	cps
Yttrium	89-2	5304655	5265285	5251836	5273925	0.52	cps
Zinc	66-2	77912	78910	79112	78645	0.82	cps
Zirconium	90-1	3787	4011	4117	3972	4.24	cps
Zirconium	91-1	923	883	937	914	3.03	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	417304	415215	413985	415501	0.40	cps
Antimony	121-1	447	440	480	456	4.70	cps
Arsenic	75-2	1387	1427	1450	1421	2.25	cps
Barium	135-1	27781	28689	28448	28306	1.66	cps
Barium	137-1	48442	49088	49643	49058	1.22	cps
Beryllium	9-1	190	197	177	188	5.42	cps
Bismuth	209-1	7696652	7636693	7580896	7638080	0.76	cps
Bismuth	209-2	6385600	6369741	6327264	6360869	0.47	cps
Bromine	81-1	16332	16586	16633	16517	0.98	cps
Bromine	81-2	323	307	337	322	4.67	cps
Cadmium	108-1	1537	1430	1343	1437	6.74	cps
Cadmium	106-1	6702	6495	6448	6548	2.06	cps
Cadmium	111-1	3785	3669	3710	3721	1.59	cps
Calcium	43-1	9940	9770	9910	9873	0.92	cps
Calcium	44-1	169468	170291	170617	170126	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1337231	1341949	1333106	1337429	0.33	cps
Cobalt	59-2	6755	6872	6758	6795	0.98	cps
Copper	63-2	2198491	2238003	2225550	2220681	0.91	cps
Dysprosium	156-1	7062	7422	7109	7197	2.72	cps
Dysprosium	156-2	7079	7132	6952	7054	1.31	cps
Erbium	164-1	5501	5621	5705	5609	1.82	cps
Erbium	164-2	4051	4337	4114	4167	3.61	cps
Gadolinium	160-1	7052	7135	7325	7171	1.95	cps
Gadolinium	160-2	6178	6025	6121	6108	1.27	cps
Holmium	165-1	12387652	12205086	12080756	12224498	1.26	cps
Holmium	165-2	9102659	9131329	8992799	9075596	0.81	cps
Indium	115-1	9397353	9241688	9131105	9256715	1.44	cps
Indium	115-2	4055545	4153269	4017126	4075313	1.72	cps
Iron	56-2	8069379	8010466	8037454	8039100	0.37	cps
Iron	57-2	203594	202732	204681	203669	0.48	cps
Iron	54-2	489354	491257	490064	490225	0.20	cps
Krypton	83-1	187	200	200	196	3.94	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	318882	324352	321627	321620	0.85	cps
Lead	207-1	248351	251761	251016	250376	0.72	cps
Lead	208-1	1184878	1205388	1207940	1199402	1.05	cps
Lithium	6-1	1120583	1115743	1109324	1115216	0.51	cps
Magnesium	24-2	153928	152467	152605	153000	0.53	cps
Manganese	55-2	85316	85058	86000	85458	0.57	cps
Molybdenum	94-1	1717	1513	1800	1677	8.80	cps
Molybdenum	95-1	1777	1873	1723	1791	4.25	cps
Molybdenum	96-1	2074	2164	2130	2122	2.14	cps
Molybdenum	97-1	943	1167	1007	1039	11.08	cps
Molybdenum	98-1	2630	2764	2710	2701	2.48	cps
Neodymium	150-1	13560	13186	13530	13425	1.55	cps
Neodymium	150-2	8983	9010	8816	8936	1.17	cps
Nickel	60-2	60705	60695	60753	60718	0.05	cps
Phosphorus	31-2	1637	1457	1727	1607	8.56	cps
Potassium	39-2	156828	155970	155175	155991	0.53	cps
Rhodium	103-1	8713215	8425390	8550854	8563153	1.69	cps
Rhodium	103-2	5580398	5599223	5576889	5585503	0.22	cps
Scandium	45-1	4594182	4433987	4411663	4479944	2.22	cps
Scandium	45-2	515981	513404	514022	514469	0.26	cps
Selenium	82-1	431	430	419	426	1.58	cps
Selenium	77-2	27	33	17	26	32.81	cps
Selenium	78-2	637	523	593	584	9.79	cps
Silicon	28-1	2205779	2222591	2224804	2217725	0.47	cps
Silver	107-1	8019	8032	7859	7970	1.21	cps
Silver	109-1	7289	7342	7345	7325	0.43	cps
Sodium	23-2	69426	70524	70062	70004	0.79	cps
Strontium	86-1	10277	10033	10404	10238	1.84	cps
Strontium	88-1	87538	88655	88423	88206	0.67	cps
Sulfur	34-1	129849	129056	126998	128634	1.14	cps
Terbium	159-1	12613994	12218682	12171964	12334880	1.97	cps
Terbium	159-2	8898758	8935505	8804404	8879556	0.76	cps
Thallium	203-1	423	403	423	417	2.77	cps
Thallium	205-1	1043	1013	947	1001	4.94	cps
Tin	118-1	754745	764051	768158	762318	0.90	cps
Titanium	47-1	65785	65929	66462	66059	0.54	cps

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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-15DLX5	Instrumnet Name :	P7
Client Sample ID :	A6323	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 17:51:35	DataFile Name :	068SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	33723	34581	34712	34339	1.57	cps
Vanadium	51-2	11588	11641	11201	11477	2.09	cps
Yttrium	89-1	16311374	15730859	15756160	15932798	2.06	cps
Yttrium	89-2	5285402	5268823	5252423	5268882	0.31	cps
Zinc	66-2	46957	46419	47372	46916	1.02	cps
Zirconium	90-1	1960	1740	1927	1876	6.32	cps
Zirconium	91-1	383	460	360	401	13.04	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11536502	11461957	11732669	11577043	1.21	cps
Antimony	121-1	4957830	4833616	4892563	4894670	1.27	cps
Arsenic	75-2	279044	280444	283752	281080	0.86	cps
Barium	135-1	6397786	6306453	6338845	6347695	0.73	cps
Barium	137-1	11058003	10845434	10884698	10929378	1.03	cps
Beryllium	9-1	487939	486196	491009	488381	0.50	cps
Bismuth	209-1	7102345	7228361	7127340	7152682	0.93	cps
Bismuth	209-2	5878245	5888068	5853812	5873375	0.30	cps
Bromine	81-1	13990	13827	13623	13813	1.33	cps
Bromine	81-2	140	93	110	114	20.67	cps
Cadmium	108-1	88608	87995	86982	87861	0.93	cps
Cadmium	106-1	130701	129894	128472	129689	0.87	cps
Cadmium	111-1	1191474	1192456	1187052	1190327	0.24	cps
Calcium	43-1	5404524	5223314	5314182	5314007	1.71	cps
Calcium	44-1	88291665	85529595	86641529	86820930	1.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2014237	2043890	2023063	2027063	0.75	cps
Cobalt	59-2	3148444	3154533	3201268	3168082	0.91	cps
Copper	63-2	19943109	19794256	20052881	19930082	0.65	cps
Dysprosium	156-1	357	283	307	316	11.87	cps
Dysprosium	156-2	620	577	500	566	10.74	cps
Erbium	164-1	283	333	350	322	10.77	cps
Erbium	164-2	257	240	237	244	4.38	cps
Gadolinium	160-1	253	267	260	260	2.56	cps
Gadolinium	160-2	643	613	667	641	4.17	cps
Holmium	165-1	12118215	12104852	12053229	12092099	0.28	cps
Holmium	165-2	9109235	9091488	9087427	9096050	0.13	cps
Indium	115-1	8494397	8361133	8333586	8396372	1.02	cps
Indium	115-2	3748792	3830561	3731154	3770169	1.41	cps
Iron	56-2	473693380	472537206	470167513	472132700	0.38	cps
Iron	57-2	11661430	11703154	11842831	11735805	0.81	cps
Iron	54-2	25606916	25547038	25602201	25585385	0.13	cps
Krypton	83-1	193	247	223	221	12.09	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20502323	20567205	20404626	20491385	0.40	cps
Lead	207-1	18205453	18306930	18178714	18230365	0.37	cps
Lead	208-1	82721565	83316967	82655812	82898115	0.44	cps
Lithium	6-1	1110354	1108333	1119435	1112708	0.53	cps
Magnesium	24-2	93407192	92835369	93464662	93235741	0.37	cps
Manganese	55-2	16636351	16619326	16716707	16657461	0.31	cps
Molybdenum	94-1	16462933	16155781	16094239	16237651	1.22	cps
Molybdenum	95-1	23626185	23492032	23234627	23450948	0.85	cps
Molybdenum	96-1	26183966	25666810	25538532	25796436	1.32	cps
Molybdenum	97-1	14773081	14506386	14579354	14619607	0.94	cps
Molybdenum	98-1	38204823	37746201	37591114	37847379	0.84	cps
Neodymium	150-1	503	493	570	522	7.98	cps
Neodymium	150-2	240	213	183	212	13.36	cps
Nickel	60-2	735897	735700	737894	736497	0.16	cps
Phosphorus	31-2	110327	109878	110290	110165	0.23	cps
Potassium	39-2	64409969	64599151	64620014	64543045	0.18	cps
Rhodium	103-1	7403148	7324897	7274596	7334214	0.88	cps
Rhodium	103-2	4914179	4944532	4895739	4918150	0.50	cps
Scandium	45-1	4187677	4019509	4025045	4077411	2.34	cps
Scandium	45-2	484107	482489	476571	481056	0.82	cps
Selenium	82-1	68794	68348	68531	68558	0.33	cps
Selenium	77-2	9426	9493	9740	9553	1.73	cps
Selenium	78-2	32425	32142	31797	32122	0.98	cps
Silicon	28-1	28720288	28210378	28045664	28325443	1.24	cps
Silver	107-1	5809660	5722731	5773363	5768585	0.76	cps
Silver	109-1	5540230	5486194	5437481	5487969	0.94	cps
Sodium	23-2	146496481	147810471	149970438	148092463	1.18	cps
Strontium	86-1	1580949	1554288	1560526	1565254	0.89	cps
Strontium	88-1	13742063	13500386	13705376	13649275	0.95	cps
Sulfur	34-1	408274	396777	395224	400092	1.78	cps
Terbium	159-1	12176152	12017449	12232689	12142097	0.92	cps
Terbium	159-2	8844699	8894777	8881352	8873610	0.29	cps
Thallium	203-1	5288501	5272425	5310948	5290624	0.37	cps
Thallium	205-1	12685801	12691626	12707887	12695105	0.09	cps
Tin	118-1	4093454	4061353	4122122	4092309	0.74	cps
Titanium	47-1	5052762	4906718	4903389	4954290	1.72	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV013	Instrumnet Name :	P7
Client Sample ID :	CCV013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:54:45	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17393345	17723318	17818732	17645132	1.27	cps
Vanadium	51-2	1820687	1834077	1823377	1826047	0.39	cps
Yttrium	89-1	14942397	14662801	14567337	14724178	1.32	cps
Yttrium	89-2	4892980	4948749	4907570	4916433	0.59	cps
Zinc	66-2	3764097	3757646	3782058	3767934	0.34	cps
Zirconium	90-1	8183546	8015540	7904634	8034573	1.75	cps
Zirconium	91-1	1778496	1791515	1774305	1781439	0.50	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2244	2073	1933	2083	7.45	cps
Antimony	121-1	3354	2650	2114	2706	22.99	cps
Arsenic	75-2	77	47	57	60	25.46	cps
Barium	135-1	3007	2207	1787	2334	26.56	cps
Barium	137-1	5061	3637	2860	3853	28.97	cps
Beryllium	9-1	373	303	247	308	20.62	cps
Bismuth	209-1	7799422	7774114	7706142	7759893	0.62	cps
Bismuth	209-2	6460773	6354361	6449472	6421536	0.91	cps
Bromine	81-1	13540	14210	13883	13878	2.42	cps
Bromine	81-2	83	153	97	111	33.45	cps
Cadmium	108-1	47	20	13	27	66.16	cps
Cadmium	106-1	4901	4891	4697	4830	2.37	cps
Cadmium	111-1	4038	3903	3612	3851	5.65	cps
Calcium	43-1	2807	2094	1673	2191	26.15	cps
Calcium	44-1	50672	39034	31349	40352	24.11	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1850	1680	1670	1733	5.84	cps
Cobalt	59-2	723	643	480	616	20.15	cps
Copper	63-2	6198	5725	5218	5713	8.58	cps
Dysprosium	156-1	3	27	3	11	121.29	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Erbium	164-1	63	80	70	71	11.80	cps
Erbium	164-2	27	43	57	42	35.60	cps
Gadolinium	160-1	30	20	50	33	45.83	cps
Gadolinium	160-2	417	467	430	438	5.91	cps
Holmium	165-1	12034891	12048483	11986281	12023218	0.27	cps
Holmium	165-2	9122350	9081747	9018362	9074153	0.58	cps
Indium	115-1	8928577	8838522	8910870	8892656	0.54	cps
Indium	115-2	4004307	4014723	3939468	3986166	1.02	cps
Iron	56-2	112282	102506	94823	103204	8.48	cps
Iron	57-2	3604	3207	3054	3288	8.63	cps
Iron	54-2	8062	7112	7012	7395	7.84	cps
Krypton	83-1	150	170	167	162	6.61	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	10397	7996	6085	8159	26.48	cps
Lead	207-1	9380	6632	5495	7169	27.87	cps
Lead	208-1	41722	31375	24632	32576	26.42	cps
Lithium	6-1	1183190	1163371	1147712	1164757	1.53	cps
Magnesium	24-2	17023	15648	14073	15581	9.47	cps
Manganese	55-2	3404	3077	2907	3129	8.07	cps
Molybdenum	94-1	8352	6178	4848	6459	27.39	cps
Molybdenum	95-1	11168	8259	6355	8594	28.20	cps
Molybdenum	96-1	12462	9043	7219	9574	27.80	cps
Molybdenum	97-1	7172	5304	3887	5454	30.20	cps
Molybdenum	98-1	18308	13550	10314	14057	28.61	cps
Neodymium	150-1	3	17	10	10	66.70	cps
Neodymium	150-2	3	0	10	4	114.60	cps
Nickel	60-2	2574	2474	2580	2542	2.35	cps
Phosphorus	31-2	250	240	217	236	7.26	cps
Potassium	39-2	72820	69819	69039	70559	2.83	cps
Rhodium	103-1	8108720	8015240	7961131	8028364	0.93	cps
Rhodium	103-2	5461706	5450670	5410948	5441108	0.49	cps
Scandium	45-1	4055918	4088570	4047229	4063906	0.54	cps
Scandium	45-2	487434	481526	487574	485511	0.71	cps
Selenium	82-1	434	372	404	403	7.69	cps
Selenium	77-2	7	3	3	4	43.40	cps
Selenium	78-2	437	463	520	473	8.99	cps
Silicon	28-1	562968	563998	553499	560155	1.03	cps
Silver	107-1	3881	2937	2077	2965	30.43	cps
Silver	109-1	3380	2484	2144	2669	23.94	cps
Sodium	23-2	65258	60619	56540	60805	7.17	cps
Strontium	86-1	1083	853	750	896	19.05	cps
Strontium	88-1	6308	4964	3547	4940	27.95	cps
Sulfur	34-1	116480	119210	120823	118838	1.85	cps
Terbium	159-1	12264648	12389252	12132289	12262063	1.05	cps
Terbium	159-2	8933101	8943598	8917666	8931455	0.15	cps
Thallium	203-1	3384	2544	2164	2697	23.15	cps
Thallium	205-1	8596	6545	5274	6805	24.63	cps
Tin	118-1	3484	3104	2844	3144	10.24	cps
Titanium	47-1	2340	1713	1317	1790	28.83	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB013	Instrumnet Name :	P7
Client Sample ID :	CCB013	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 17:57:40	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7622	5304	3777	5568	34.77	cps
Vanadium	51-2	327	360	273	320	13.66	cps
Yttrium	89-1	14788587	14911618	14673283	14791163	0.81	cps
Yttrium	89-2	5018538	5047621	4983391	5016517	0.64	cps
Zinc	66-2	1203	1200	1190	1198	0.58	cps
Zirconium	90-1	5331	3844	3254	4143	25.84	cps
Zirconium	91-1	970	907	677	851	18.14	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2154340	2158725	2157786	2156950	0.11	cps
Antimony	121-1	5094	4798	4884	4925	3.10	cps
Arsenic	75-2	12552	12409	11955	12305	2.53	cps
Barium	135-1	447271	453472	460510	453751	1.46	cps
Barium	137-1	777655	796214	791961	788610	1.23	cps
Beryllium	9-1	1340	1277	1280	1299	2.74	cps
Bismuth	209-1	7842898	7850411	7939299	7877536	0.68	cps
Bismuth	209-2	5991712	6432614	6459608	6294645	4.17	cps
Bromine	81-1	29523	30298	30919	30247	2.31	cps
Bromine	81-2	4427	4251	4267	4315	2.26	cps
Cadmium	108-1	1593	1403	1567	1521	6.76	cps
Cadmium	106-1	6852	6795	6912	6853	0.85	cps
Cadmium	111-1	5448	5581	5525	5518	1.21	cps
Calcium	43-1	411510	417297	422309	417039	1.30	cps
Calcium	44-1	6535535	6655108	6725741	6638795	1.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2248967	2192889	2220058	2220638	1.26	cps
Cobalt	59-2	893001	888752	889817	890523	0.25	cps
Copper	63-2	4785101	4773618	4816934	4791885	0.47	cps
Dysprosium	156-1	22625	23039	23259	22974	1.40	cps
Dysprosium	156-2	21530	21854	21543	21642	0.85	cps
Erbium	164-1	24522	24702	24979	24734	0.93	cps
Erbium	164-2	18769	18285	18289	18448	1.51	cps
Gadolinium	160-1	22191	22592	22211	22331	1.01	cps
Gadolinium	160-2	18442	18108	18616	18389	1.40	cps
Holmium	165-1	12312696	12515812	12471453	12433321	0.86	cps
Holmium	165-2	8768503	9217551	9269879	9085311	3.03	cps
Indium	115-1	9079280	9209905	9121042	9136742	0.73	cps
Indium	115-2	3822440	4113927	4114349	4016905	4.19	cps
Iron	56-2	240008270	237758770	236404370	238057136	0.76	cps
Iron	57-2	5844063	5896030	5802554	5847549	0.80	cps
Iron	54-2	12993910	12850543	12869391	12904615	0.60	cps
Krypton	83-1	240	230	247	239	3.51	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	436292	445231	445242	442255	1.17	cps
Lead	207-1	351646	358226	360367	356746	1.27	cps
Lead	208-1	1662316	1687733	1688085	1679378	0.88	cps
Lithium	6-1	1213482	1195185	1191448	1200039	0.98	cps
Magnesium	24-2	455659	449402	450075	451712	0.76	cps
Manganese	55-2	50940808	50941834	51376469	51086370	0.49	cps
Molybdenum	94-1	8292	8289	8412	8331	0.84	cps
Molybdenum	95-1	11998	12118	12145	12087	0.65	cps
Molybdenum	96-1	14397	14424	14954	14592	2.15	cps
Molybdenum	97-1	6451	6515	6902	6623	3.68	cps
Molybdenum	98-1	16573	16833	17037	16814	1.38	cps
Neodymium	150-1	33603	33821	34780	34068	1.84	cps
Neodymium	150-2	23356	23356	22969	23227	0.96	cps
Nickel	60-2	554465	550651	551779	552298	0.35	cps
Phosphorus	31-2	10887	10791	11127	10935	1.59	cps
Potassium	39-2	680477	672220	671312	674670	0.75	cps
Rhodium	103-1	8303838	8205411	8385053	8298101	1.08	cps
Rhodium	103-2	5204373	5616821	5547834	5456343	4.05	cps
Scandium	45-1	4271775	4286280	4280913	4279656	0.17	cps
Scandium	45-2	473489	507847	512138	497825	4.26	cps
Selenium	82-1	504	448	521	491	7.84	cps
Selenium	77-2	73	57	70	67	13.22	cps
Selenium	78-2	667	673	630	657	3.55	cps
Silicon	28-1	4464860	4527107	4722021	4571329	2.93	cps
Silver	107-1	18856	19083	19323	19087	1.22	cps
Silver	109-1	18222	18005	18505	18244	1.38	cps
Sodium	23-2	286745	284575	282475	284598	0.75	cps
Strontium	86-1	299526	304938	306201	303555	1.17	cps
Strontium	88-1	2734761	2775692	2804059	2771504	1.26	cps
Sulfur	34-1	187610	187690	187225	187508	0.13	cps
Terbium	159-1	12477316	12420384	12596832	12498178	0.72	cps
Terbium	159-2	8556153	9064822	9121566	8914180	3.49	cps
Thallium	203-1	4778	4778	4621	4725	1.91	cps
Thallium	205-1	11628	11288	11021	11313	2.69	cps
Tin	118-1	287670	295973	296454	293366	1.68	cps
Titanium	47-1	98544	100866	100652	100021	1.28	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DLX2	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	2
Date & Time Acquired :	2025-02-02 18:00:56	DataFile Name :	071SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	48133	47879	49351	48454	1.62	cps
Vanadium	51-2	45977	45769	46281	46009	0.56	cps
Yttrium	89-1	15705396	15865009	15875246	15815217	0.60	cps
Yttrium	89-2	4921818	5342932	5386898	5217216	4.92	cps
Zinc	66-2	79708	77741	78957	78802	1.26	cps
Zirconium	90-1	5965	5955	5788	5902	1.68	cps
Zirconium	91-1	1347	1263	1203	1271	5.66	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	858193	863605	854817	858872	0.52	cps
Antimony	121-1	1783	1953	2057	1931	7.15	cps
Arsenic	75-2	4941	5014	4858	4938	1.59	cps
Barium	135-1	182848	186089	187905	185614	1.38	cps
Barium	137-1	320474	324394	326413	323760	0.93	cps
Beryllium	9-1	583	563	590	579	2.40	cps
Bismuth	209-1	7790951	7809328	7699046	7766442	0.76	cps
Bismuth	209-2	6379939	6436943	6210987	6342623	1.85	cps
Bromine	81-1	21265	21295	22043	21535	2.05	cps
Bromine	81-2	1853	1980	1813	1882	4.62	cps
Cadmium	108-1	700	677	700	692	1.95	cps
Cadmium	106-1	5488	5604	5611	5568	1.25	cps
Cadmium	111-1	3981	4109	4108	4066	1.81	cps
Calcium	43-1	171810	173428	173119	172786	0.50	cps
Calcium	44-1	2723564	2766574	2741813	2743984	0.79	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	895409	896647	894370	895475	0.13	cps
Cobalt	59-2	361685	362245	358341	360757	0.59	cps
Copper	63-2	1959870	1937421	1960281	1952524	0.67	cps
Dysprosium	156-1	9220	9236	9367	9274	0.87	cps
Dysprosium	156-2	8593	8503	8539	8545	0.53	cps
Erbium	164-1	9690	9900	10137	9909	2.26	cps
Erbium	164-2	7322	7315	7209	7282	0.87	cps
Gadolinium	160-1	9036	8913	8930	8960	0.75	cps
Gadolinium	160-2	7776	7389	7349	7504	3.14	cps
Holmium	165-1	12521017	12209298	12182382	12304232	1.53	cps
Holmium	165-2	9084339	9075723	8810042	8990035	1.73	cps
Indium	115-1	9226196	9014783	9081841	9107607	1.19	cps
Indium	115-2	4093478	4017010	4017727	4042738	1.09	cps
Iron	56-2	96797129	96357449	96042512	96399030	0.39	cps
Iron	57-2	2384437	2356406	2346439	2362428	0.83	cps
Iron	54-2	5356421	5283627	5254525	5298191	0.99	cps
Krypton	83-1	200	203	203	202	0.95	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	177681	179110	179775	178855	0.60	cps
Lead	207-1	142309	145358	145540	144403	1.26	cps
Lead	208-1	674786	684699	686892	682126	0.95	cps
Lithium	6-1	1196004	1162433	1199209	1185882	1.72	cps
Magnesium	24-2	186175	184731	183291	184732	0.78	cps
Manganese	55-2	20838124	20807666	20614884	20753558	0.58	cps
Molybdenum	94-1	3247	3310	3254	3270	1.06	cps
Molybdenum	95-1	4778	4914	4684	4792	2.41	cps
Molybdenum	96-1	5611	5748	5758	5706	1.44	cps
Molybdenum	97-1	2537	2540	2574	2550	0.80	cps
Molybdenum	98-1	6451	6752	6542	6582	2.34	cps
Neodymium	150-1	13830	14294	13877	14000	1.82	cps
Neodymium	150-2	9203	9223	9397	9274	1.15	cps
Nickel	60-2	226556	227361	226169	226695	0.27	cps
Phosphorus	31-2	4451	4734	4604	4596	3.09	cps
Potassium	39-2	310308	311344	311370	311007	0.19	cps
Rhodium	103-1	8459988	8252554	8251571	8321371	1.44	cps
Rhodium	103-2	5480602	5511762	5488655	5493673	0.29	cps
Scandium	45-1	4341103	4300897	4232186	4291395	1.28	cps
Scandium	45-2	506138	501956	506213	504769	0.48	cps
Selenium	82-1	423	413	452	429	4.76	cps
Selenium	77-2	23	30	30	28	13.86	cps
Selenium	78-2	543	563	557	554	1.84	cps
Silicon	28-1	2287238	2334860	2423478	2348525	2.94	cps
Silver	107-1	7472	7605	7802	7627	2.18	cps
Silver	109-1	6992	6978	7209	7060	1.83	cps
Sodium	23-2	132275	131562	131865	131901	0.27	cps
Strontium	86-1	122955	124793	127173	124974	1.69	cps
Strontium	88-1	1088419	1104211	1098551	1097060	0.73	cps
Sulfur	34-1	143435	143993	143452	143627	0.22	cps
Terbium	159-1	12491981	12233422	12349633	12358345	1.05	cps
Terbium	159-2	8946902	8895097	8917704	8919901	0.29	cps
Thallium	203-1	1753	1707	1693	1718	1.83	cps
Thallium	205-1	4124	4034	4167	4108	1.66	cps
Tin	118-1	119389	121369	121133	120631	0.90	cps
Titanium	47-1	40995	41667	41370	41344	0.81	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-02DL2X5	Instrumnet Name :	P7
Client Sample ID :	A6302	Dilution Factor :	5
Date & Time Acquired :	2025-02-02 18:04:04	DataFile Name :	072SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	18737	19398	19197	19111	1.77	cps
Vanadium	51-2	18495	19463	18545	18834	2.89	cps
Yttrium	89-1	15790345	15439379	15414796	15548174	1.35	cps
Yttrium	89-2	5147601	5225736	5218351	5197230	0.83	cps
Zinc	66-2	33250	33016	32609	32959	0.98	cps
Zirconium	90-1	2440	2344	2300	2361	3.04	cps
Zirconium	91-1	523	523	587	544	6.72	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7419209	7456196	7446731	7440712	0.26	cps
Antimony	121-1	45315	45940	46324	45860	1.11	cps
Arsenic	75-2	93213	92010	92784	92669	0.66	cps
Barium	135-1	536982	547838	549549	544790	1.25	cps
Barium	137-1	934791	943683	955404	944626	1.09	cps
Beryllium	9-1	4504	4601	4237	4447	4.23	cps
Bismuth	209-1	7742626	7899153	7880422	7840734	1.09	cps
Bismuth	209-2	6430325	6442979	6487766	6453690	0.47	cps
Bromine	81-1	47319	49569	50285	49058	3.15	cps
Bromine	81-2	9526	9256	9480	9421	1.53	cps
Cadmium	108-1	13543	14507	14004	14018	3.44	cps
Cadmium	106-1	18822	19183	19350	19118	1.41	cps
Cadmium	111-1	8193	7767	8626	8195	5.24	cps
Calcium	43-1	614610	625722	616791	619041	0.95	cps
Calcium	44-1	9688492	9839767	9784006	9770755	0.78	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4672120	4658255	4660405	4663593	0.16	cps
Cobalt	59-2	106847	104903	106061	105937	0.92	cps
Copper	63-2	7704736	7780739	7746763	7744079	0.49	cps
Dysprosium	156-1	28773	29187	28643	28867	0.98	cps
Dysprosium	156-2	28359	28920	28923	28734	1.13	cps
Erbium	164-1	25547	25330	25774	25550	0.87	cps
Erbium	164-2	19297	19420	19420	19379	0.37	cps
Gadolinium	160-1	26619	27293	26879	26930	1.26	cps
Gadolinium	160-2	21901	21974	22178	22017	0.65	cps
Holmium	165-1	12479116	12603712	12645994	12576274	0.69	cps
Holmium	165-2	9293041	9201214	9345369	9279875	0.79	cps
Indium	115-1	9083317	9002535	8981684	9022512	0.59	cps
Indium	115-2	4014542	4030461	3989293	4011432	0.52	cps
Iron	56-2	240851030	236258950	237442116	238184032	1.00	cps
Iron	57-2	5855656	5852773	5818992	5842474	0.35	cps
Iron	54-2	13049787	12871186	13061455	12994143	0.82	cps
Krypton	83-1	190	263	213	222	16.86	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4886898	4938285	4949648	4924944	0.68	cps
Lead	207-1	3923602	4047620	4102503	4024575	2.28	cps
Lead	208-1	18733568	18970533	19164454	18956185	1.14	cps
Lithium	6-1	1254095	1199004	1247691	1233597	2.44	cps
Magnesium	24-2	1995908	1956544	1989401	1980618	1.07	cps
Manganese	55-2	9261112	9062526	9129851	9151163	1.10	cps
Molybdenum	94-1	14094	14631	14704	14476	2.30	cps
Molybdenum	95-1	17828	17317	17981	17709	1.96	cps
Molybdenum	96-1	22751	22641	22274	22555	1.11	cps
Molybdenum	97-1	11028	11038	10921	10995	0.59	cps
Molybdenum	98-1	28087	28825	28164	28359	1.43	cps
Neodymium	150-1	46416	47536	48095	47349	1.81	cps
Neodymium	150-2	32424	32317	32187	32309	0.37	cps
Nickel	60-2	284180	284811	285623	284872	0.25	cps
Phosphorus	31-2	24346	23542	23869	23919	1.69	cps
Potassium	39-2	991533	980710	984149	985464	0.56	cps
Rhodium	103-1	8512325	8415687	8433706	8453906	0.61	cps
Rhodium	103-2	5633156	5608943	5478865	5573655	1.49	cps
Scandium	45-1	4441625	4461679	4377805	4427037	0.99	cps
Scandium	45-2	526789	517603	517521	520638	1.02	cps
Selenium	82-1	2104	2060	2139	2101	1.87	cps
Selenium	77-2	343	337	367	349	4.52	cps
Selenium	78-2	1583	1487	1437	1502	4.96	cps
Silicon	28-1	14943679	15349891	15102290	15131953	1.35	cps
Silver	107-1	31344	31862	31240	31482	1.06	cps
Silver	109-1	29784	29857	30121	29921	0.59	cps
Sodium	23-2	2654796	2632317	2636053	2641056	0.46	cps
Strontium	86-1	633859	645166	642845	640623	0.93	cps
Strontium	88-1	5680569	5842833	5806448	5776617	1.47	cps
Sulfur	34-1	257752	258183	257765	257900	0.10	cps
Terbium	159-1	12517049	12701739	12615421	12611403	0.73	cps
Terbium	159-2	9160960	9165091	9187642	9171231	0.16	cps
Thallium	203-1	3144	2994	3184	3107	3.22	cps
Thallium	205-1	7262	7159	7165	7195	0.80	cps
Tin	118-1	9028164	9111210	9183739	9107704	0.85	cps
Titanium	47-1	509008	517572	512307	512962	0.84	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1223-05A	Instrumnet Name :	P7
Client Sample ID :	A6305A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:07:12	DataFile Name :	073SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	75667	78204	78577	77482	2.04	cps
Vanadium	51-2	127154	126844	126511	126836	0.25	cps
Yttrium	89-1	16119271	16112489	16104844	16112201	0.04	cps
Yttrium	89-2	5479314	5429968	5358532	5422605	1.12	cps
Zinc	66-2	577849	579274	580700	579274	0.25	cps
Zirconium	90-1	11982	12095	11548	11875	2.43	cps
Zirconium	91-1	2777	2720	2690	2729	1.61	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3086697	3076334	3103964	3088998	0.45	cps
Antimony	121-1	487	473	477	479	1.45	cps
Arsenic	75-2	4241	3834	4034	4036	5.04	cps
Barium	135-1	123775	126876	126889	125847	1.43	cps
Barium	137-1	216432	220213	219216	218621	0.90	cps
Beryllium	9-1	760	737	757	751	1.68	cps
Bismuth	209-1	7736070	7577524	7643748	7652448	1.04	cps
Bismuth	209-2	6409597	6337504	6357691	6368264	0.58	cps
Bromine	81-1	16463	17097	17330	16963	2.65	cps
Bromine	81-2	687	660	747	698	6.36	cps
Cadmium	108-1	60	33	57	50	29.06	cps
Cadmium	106-1	5028	4764	5008	4933	2.97	cps
Cadmium	111-1	3734	3582	3759	3692	2.60	cps
Calcium	43-1	37075	36648	38031	37251	1.90	cps
Calcium	44-1	611465	618922	622371	617586	0.90	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	139213	137476	136588	137759	0.97	cps
Cobalt	59-2	34657	33845	33314	33938	1.99	cps
Copper	63-2	51127	49746	50375	50416	1.37	cps
Dysprosium	156-1	23216	23877	23840	23644	1.57	cps
Dysprosium	156-2	23309	23817	23663	23597	1.10	cps
Erbium	164-1	20008	19964	20245	20072	0.75	cps
Erbium	164-2	15148	14891	14751	14930	1.35	cps
Gadolinium	160-1	21881	22058	22552	22163	1.57	cps
Gadolinium	160-2	18142	17811	17494	17816	1.82	cps
Holmium	165-1	12249731	12071740	12197613	12173028	0.75	cps
Holmium	165-2	9233069	9167320	9161297	9187228	0.43	cps
Indium	115-1	9161660	9080118	9195331	9145703	0.65	cps
Indium	115-2	4091041	4059408	4101243	4083897	0.53	cps
Iron	56-2	49392808	49360056	49006233	49253032	0.44	cps
Iron	57-2	1250626	1241665	1247954	1246749	0.37	cps
Iron	54-2	2718898	2711474	2717985	2716119	0.15	cps
Krypton	83-1	210	170	203	194	11.02	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1442480	1454513	1468949	1455314	0.91	cps
Lead	207-1	1254472	1285427	1288346	1276082	1.47	cps
Lead	208-1	6058723	6075976	6143402	6092700	0.73	cps
Lithium	6-1	1172676	1158162	1131420	1154086	1.81	cps
Magnesium	24-2	1562562	1570811	1548378	1560584	0.73	cps
Manganese	55-2	545767	548021	542114	545301	0.55	cps
Molybdenum	94-1	8349	8516	8536	8467	1.21	cps
Molybdenum	95-1	2687	2554	2707	2649	3.15	cps
Molybdenum	96-1	4707	4684	4784	4725	1.11	cps
Molybdenum	97-1	1777	1690	1767	1745	2.72	cps
Molybdenum	98-1	4121	4274	4407	4267	3.36	cps
Neodymium	150-1	40053	41464	41030	40849	1.77	cps
Neodymium	150-2	27230	27544	27560	27445	0.68	cps
Nickel	60-2	31496	30765	30812	31024	1.32	cps
Phosphorus	31-2	4807	5074	4994	4959	2.76	cps
Potassium	39-2	703590	705805	693803	701066	0.91	cps
Rhodium	103-1	8351490	8329418	8414178	8365029	0.53	cps
Rhodium	103-2	5652578	5590469	5611996	5618348	0.56	cps
Scandium	45-1	4366566	4406198	4401321	4391362	0.49	cps
Scandium	45-2	522959	523986	525402	524116	0.23	cps
Selenium	82-1	1964	1967	1972	1968	0.20	cps
Selenium	77-2	297	277	263	279	6.02	cps
Selenium	78-2	1390	1400	1347	1379	2.06	cps
Silicon	28-1	3068600	3159711	3221038	3149783	2.44	cps
Silver	107-1	857	790	687	778	11.01	cps
Silver	109-1	683	660	577	640	8.76	cps
Sodium	23-2	140585	139518	140484	140196	0.42	cps
Strontium	86-1	26611	27416	27740	27255	2.13	cps
Strontium	88-1	236179	239174	239624	238326	0.79	cps
Sulfur	34-1	124619	123937	122782	123779	0.75	cps
Terbium	159-1	12324190	12211228	12341352	12292257	0.58	cps
Terbium	159-2	9110225	9005787	8983724	9033245	0.75	cps
Thallium	203-1	2220	2160	2307	2229	3.31	cps
Thallium	205-1	5284	5004	5258	5182	2.98	cps
Tin	118-1	10581	7659	6275	8171	26.90	cps
Titanium	47-1	491493	503697	507465	500885	1.67	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	Q1246-09A	Instrumnet Name :	P7
Client Sample ID :	A6342A	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:10:14	DataFile Name :	074SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	70810	72244	72747	71934	1.40	cps
Vanadium	51-2	106462	106838	105167	106156	0.83	cps
Yttrium	89-1	15684382	15702559	15690871	15692604	0.06	cps
Yttrium	89-2	5365412	5351066	5298052	5338177	0.66	cps
Zinc	66-2	38613	38844	37571	38343	1.77	cps
Zirconium	90-1	18508	18732	18869	18703	0.97	cps
Zirconium	91-1	4214	4334	4227	4258	1.54	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11636785	11582204	11736578	11651856	0.67	cps
Antimony	121-1	4715084	4870430	4915077	4833530	2.17	cps
Arsenic	75-2	287315	283503	285246	285355	0.67	cps
Barium	135-1	6244067	6316993	6284159	6281739	0.58	cps
Barium	137-1	10557709	10764788	10638964	10653820	0.98	cps
Beryllium	9-1	481240	490742	496219	489400	1.55	cps
Bismuth	209-1	7122574	7175062	7177039	7158225	0.43	cps
Bismuth	209-2	5837246	5841866	5780179	5819763	0.59	cps
Bromine	81-1	12949	12739	13363	13017	2.44	cps
Bromine	81-2	173	147	157	159	8.48	cps
Cadmium	108-1	86713	87904	87595	87404	0.71	cps
Cadmium	106-1	125174	128492	127497	127054	1.34	cps
Cadmium	111-1	1165305	1187202	1195778	1182762	1.33	cps
Calcium	43-1	5073443	5178710	5151006	5134386	1.06	cps
Calcium	44-1	83112915	85059439	85345009	84505788	1.44	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2056907	2007654	2025984	2030182	1.23	cps
Cobalt	59-2	3159124	3156738	3176930	3164264	0.35	cps
Copper	63-2	20027894	19556871	19631812	19738859	1.28	cps
Dysprosium	156-1	300	347	357	334	9.04	cps
Dysprosium	156-2	657	577	537	590	10.36	cps
Erbium	164-1	320	383	357	353	9.00	cps
Erbium	164-2	270	237	200	236	14.87	cps
Gadolinium	160-1	317	257	270	281	11.21	cps
Gadolinium	160-2	673	600	533	602	11.63	cps
Holmium	165-1	11958544	11948383	11989292	11965406	0.18	cps
Holmium	165-2	8953529	8921693	8886980	8920734	0.37	cps
Indium	115-1	8209892	8239003	8311996	8253630	0.64	cps
Indium	115-2	3763232	3676696	3705329	3715085	1.19	cps
Iron	56-2	469337620	468506966	466376540	468073709	0.33	cps
Iron	57-2	11783980	11641051	11705239	11710090	0.61	cps
Iron	54-2	25413345	25243250	25363995	25340197	0.35	cps
Krypton	83-1	207	163	160	177	14.74	cps

Reviewed By:Eman
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Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20266904	20501133	20602215	20456751	0.84	cps
Lead	207-1	17917623	18096567	18095266	18036485	0.57	cps
Lead	208-1	81671580	82449804	82807342	82309575	0.71	cps
Lithium	6-1	1132662	1127423	1141479	1133855	0.63	cps
Magnesium	24-2	94415385	93829602	94819612	94354866	0.53	cps
Manganese	55-2	16593789	16580246	16717946	16630660	0.46	cps
Molybdenum	94-1	15759679	15868658	16105258	15911198	1.11	cps
Molybdenum	95-1	22675368	22848200	23278274	22933947	1.35	cps
Molybdenum	96-1	24986990	25265240	25405020	25219084	0.84	cps
Molybdenum	97-1	14137165	14387924	14495242	14340111	1.28	cps
Molybdenum	98-1	36776582	37293329	37223680	37097864	0.76	cps
Neodymium	150-1	513	523	493	510	3.00	cps
Neodymium	150-2	293	240	267	267	10.00	cps
Nickel	60-2	743827	743650	743019	743499	0.06	cps
Phosphorus	31-2	110834	108807	109666	109769	0.93	cps
Potassium	39-2	65062669	63865389	65046666	64658241	1.06	cps
Rhodium	103-1	7258524	7314475	7248278	7273759	0.49	cps
Rhodium	103-2	4881089	4810383	4844648	4845373	0.73	cps
Scandium	45-1	4005790	3968513	4037335	4003879	0.86	cps
Scandium	45-2	486547	475251	477773	479857	1.24	cps
Selenium	82-1	67450	67965	68187	67867	0.56	cps
Selenium	77-2	9940	9577	9890	9802	2.01	cps
Selenium	78-2	32355	32008	33114	32492	1.74	cps
Silicon	28-1	27593413	27727255	27947715	27756127	0.64	cps
Silver	107-1	5880081	5990926	5958553	5943186	0.96	cps
Silver	109-1	5592787	5660738	5708657	5654061	1.03	cps
Sodium	23-2	149060438	147910531	149276021	148748997	0.49	cps
Strontium	86-1	1505894	1519203	1521523	1515540	0.56	cps
Strontium	88-1	13214506	13339161	13458683	13337450	0.92	cps
Sulfur	34-1	381403	383756	385027	383395	0.48	cps
Terbium	159-1	12054233	12039155	12016228	12036539	0.16	cps
Terbium	159-2	8919018	8769741	8861655	8850138	0.85	cps
Thallium	203-1	5178597	5286293	5282337	5249076	1.16	cps
Thallium	205-1	12394212	12738921	12714467	12615867	1.52	cps
Tin	118-1	3946972	4034949	4040390	4007437	1.31	cps
Titanium	47-1	4805120	4836374	4849182	4830225	0.47	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCV014	Instrumnet Name :	P7
Client Sample ID :	CCV014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:13:23	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	17550458	17495113	17829772	17625114	1.02	cps
Vanadium	51-2	1830005	1823080	1822445	1825177	0.23	cps
Yttrium	89-1	14498868	14460428	14363643	14440980	0.48	cps
Yttrium	89-2	4944331	4838988	4900039	4894453	1.08	cps
Zinc	66-2	3744863	3733096	3740046	3739335	0.16	cps
Zirconium	90-1	7776371	7853849	7939251	7856490	1.04	cps
Zirconium	91-1	1729479	1738828	1738303	1735536	0.30	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2254	2077	1913	2081	8.17	cps
Antimony	121-1	2890	2410	1943	2415	19.61	cps
Arsenic	75-2	50	53	47	50	6.66	cps
Barium	135-1	2187	1793	1453	1811	20.26	cps
Barium	137-1	4154	3150	2477	3260	25.88	cps
Beryllium	9-1	300	227	227	251	16.86	cps
Bismuth	209-1	7700336	7787705	7669388	7719143	0.79	cps
Bismuth	209-2	6388597	6349720	6395153	6377823	0.39	cps
Bromine	81-1	13239	13476	13396	13371	0.90	cps
Bromine	81-2	203	163	143	170	17.97	cps
Cadmium	108-1	47	37	37	40	14.43	cps
Cadmium	106-1	4744	4721	4461	4642	3.39	cps
Cadmium	111-1	3768	3632	3474	3625	4.07	cps
Calcium	43-1	2307	1800	1453	1853	23.16	cps
Calcium	44-1	42908	34617	29432	35652	19.07	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1527	1467	1550	1515	2.84	cps
Cobalt	59-2	630	580	467	559	14.97	cps
Copper	63-2	5624	5234	4807	5222	7.82	cps
Dysprosium	156-1	17	7	13	12	41.65	cps
Dysprosium	156-2	0	3	7	3	100.05	cps
Erbium	164-1	80	67	70	72	9.61	cps
Erbium	164-2	60	33	40	44	31.23	cps
Gadolinium	160-1	53	43	43	47	12.37	cps
Gadolinium	160-2	480	473	523	492	5.52	cps
Holmium	165-1	11888354	11867689	11972516	11909520	0.47	cps
Holmium	165-2	9058375	9055077	9002883	9038778	0.34	cps
Indium	115-1	8882850	8793072	8794825	8823582	0.58	cps
Indium	115-2	3996153	4009327	3974251	3993244	0.44	cps
Iron	56-2	109428	100271	94115	101272	7.61	cps
Iron	57-2	3350	3100	3217	3223	3.88	cps
Iron	54-2	7322	7355	6752	7143	4.75	cps
Krypton	83-1	160	137	173	157	11.85	cps

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8720	6395	5291	6802	25.73	cps
Lead	207-1	7309	5845	4611	5921	22.81	cps
Lead	208-1	34247	26193	21200	27214	24.19	cps
Lithium	6-1	1168015	1167751	1164012	1166593	0.19	cps
Magnesium	24-2	16125	13930	13956	14670	8.59	cps
Manganese	55-2	3380	3250	2944	3191	7.03	cps
Molybdenum	94-1	6712	5554	4457	5574	20.22	cps
Molybdenum	95-1	8866	7045	5654	7189	22.41	cps
Molybdenum	96-1	10100	8052	6045	8066	25.14	cps
Molybdenum	97-1	5808	4624	3624	4685	23.34	cps
Molybdenum	98-1	14290	11621	9136	11683	22.06	cps
Neodymium	150-1	10	20	10	13	43.30	cps
Neodymium	150-2	0	0	13	4	173.21	cps
Nickel	60-2	2297	2347	2317	2320	1.08	cps
Phosphorus	31-2	223	297	250	257	14.46	cps
Potassium	39-2	66605	66454	64790	65950	1.53	cps
Rhodium	103-1	7963500	7970922	7981712	7972044	0.11	cps
Rhodium	103-2	5484163	5428809	5402965	5438646	0.76	cps
Scandium	45-1	4056030	4085642	4075299	4072324	0.37	cps
Scandium	45-2	485189	483128	485937	484751	0.30	cps
Selenium	82-1	394	374	325	365	9.72	cps
Selenium	77-2	7	7	3	6	34.70	cps
Selenium	78-2	533	503	503	513	3.37	cps
Silicon	28-1	565276	566753	558898	563642	0.74	cps
Silver	107-1	2827	2130	1510	2156	30.56	cps
Silver	109-1	2567	1903	1530	2000	26.25	cps
Sodium	23-2	58534	55730	52887	55717	5.07	cps
Strontium	86-1	893	753	640	762	16.65	cps
Strontium	88-1	5248	4297	3224	4256	23.79	cps
Sulfur	34-1	117813	117877	117783	117824	0.04	cps
Terbium	159-1	12024659	12109006	12132927	12088864	0.47	cps
Terbium	159-2	8958262	8985658	8813924	8919281	1.03	cps
Thallium	203-1	2377	1913	1677	1989	17.90	cps
Thallium	205-1	6158	4731	3924	4938	22.91	cps
Tin	118-1	2937	2450	2397	2595	11.47	cps
Titanium	47-1	1957	1670	1177	1601	24.64	cps

Reviewed By:Eman
On:2/5/2025 9:21:10 AM
Inst Id :P7

LB Number :	LB134522	Operator :	Jaswal
Lab Sample ID :	CCB014	Instrumnet Name :	P7
Client Sample ID :	CCB014	Dilution Factor :	1
Date & Time Acquired :	2025-02-02 18:16:50	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5871	4658	3651	4726	23.53	cps
Vanadium	51-2	247	183	287	239	21.81	cps
Yttrium	89-1	14732737	14856224	14815143	14801368	0.42	cps
Yttrium	89-2	4998128	5067998	5045909	5037345	0.71	cps
Zinc	66-2	1143	1113	1177	1145	2.77	cps
Zirconium	90-1	4041	3677	3267	3662	10.57	cps
Zirconium	91-1	893	713	647	751	16.99	cps

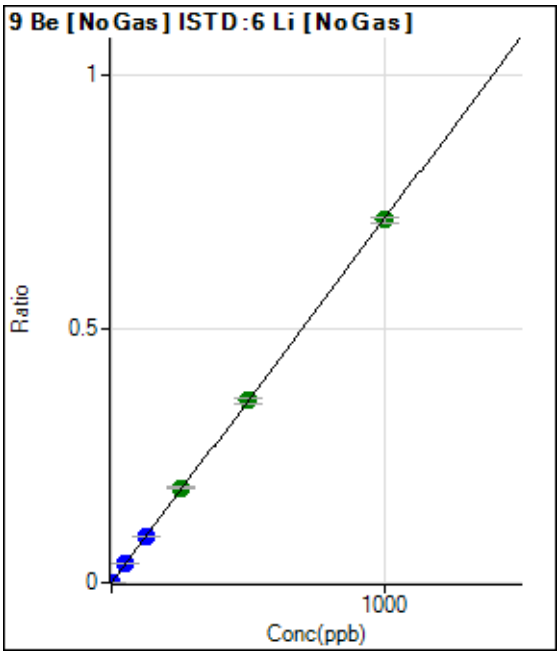
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020625MS.b\
Analysis File: P8020625MS.batch.bin
DA Date-Time: 2025-02-06 19:18:37
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-02-06 12:08:54
2	005CALS.d	S02	2025-02-06 12:12:13
3	006CALB.d	S03	2025-02-06 12:15:34
4	007CALS.d	S04	2025-02-06 12:18:35
5	008CALS.d	S05	2025-02-06 12:21:31
6	009CALS.d	S06	2025-02-06 12:24:18
7	010CALS.d	S07	2025-02-06 12:27:05
8	011CALS.d	S08	2025-02-06 12:29:51

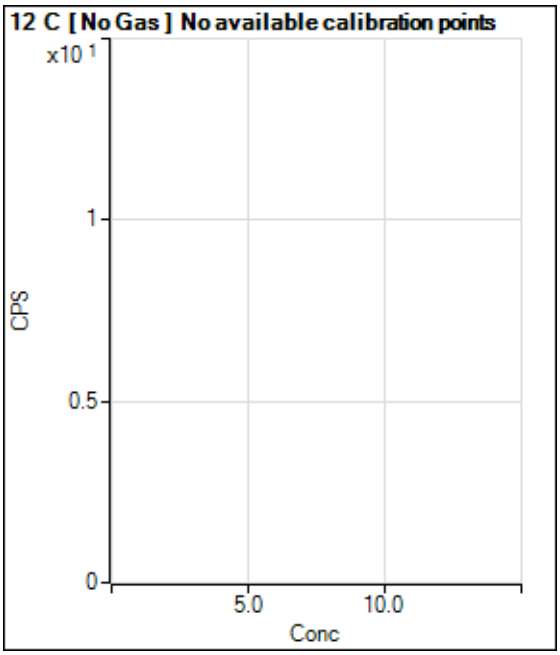
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	299.55	0.0000	P	5.7
2	☐	1.000	1.105	7601.02	0.0008	P	0.6
3	☐	50.000	50.575	325755.46	0.0363	P	1.3
4	☐	125.000	125.563	807230.92	0.0901	P	1.6
5	☐	250.000	260.917	1646635.43	0.1871	A	0.5
6	☐	500.000	500.895	3065868.83	0.3592	A	3.1
7	☐	1000.000	996.724	5979788.32	0.7148	A	1.6
8	☐			2023.23	0.0003	P	11.1

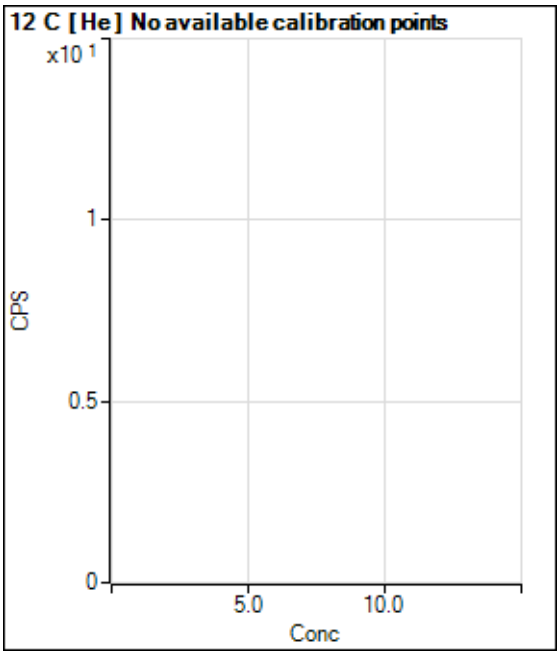
y = 7.1714E-004 * x + 3.3052E-005
R = 0.9999
DL = 0.007867
BEC = 0.04609

Weight: <None>
Min Conc: 0

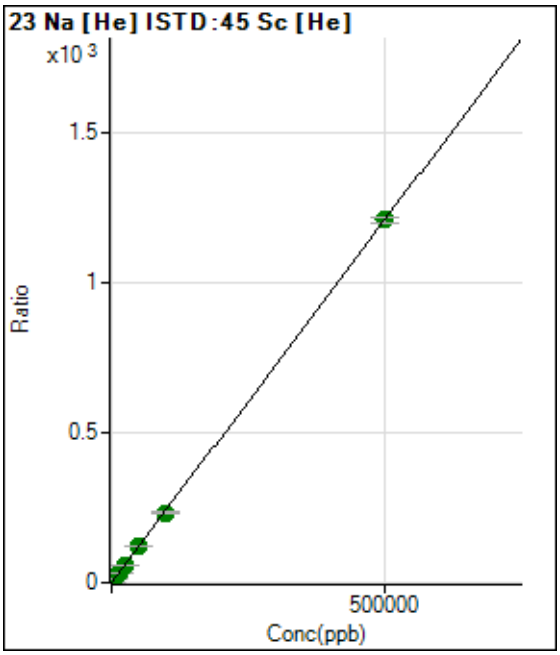


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6492331.71		A	0.7
2	☐			6780051.43		A	0.7
3	☐			6653098.58		A	1.2
4	☐			6841966.70		A	0.5
5	☐			7057636.77		A	0.6
6	☐			7200802.81		A	2.1
7	☐			8096407.59		A	2.2
8	☐			7003234.76		A	0.7

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			42841.20		P	0.9
2	☐			44617.46		P	0.3
3	☐			43829.54		P	0.7
4	☐			45526.89		P	1.0
5	☐			47830.88		P	0.7
6	☐			49713.77		P	1.3
7	☐			57866.65		P	0.4
8	☐			61869.36		P	1.6

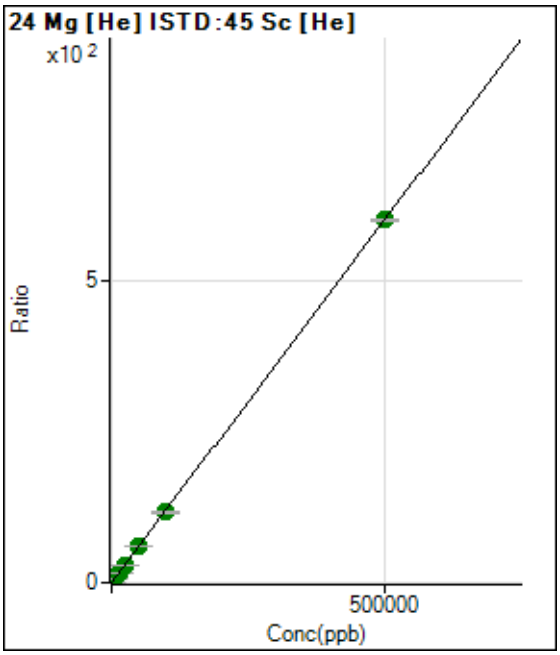


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55760.32	0.2382	P	0.6
2	☐	500.000	521.089	349842.29	1.4970	P	0.3
3	☐	5000.000	4951.978	2822057.88	12.2014	A	1.9
4	☐	12500.000	12372.251	6956311.28	30.1275	A	0.7
5	☐	25000.000	24836.823	13768986.32	60.2399	A	0.5
6	☐	50000.000	50354.134	26222550.72	121.8856	A	0.4
7	☐	100000.00	96513.484	51640965.34	233.3991	A	1.1
8	☐	500000.00	500673.70	248800967.4	1,209.784	A	1.9

y = 0.0024 * x + 0.2382
R = 1.0000
DL = 1.699
BEC = 98.59

Weight: <None>
Min Conc: 0

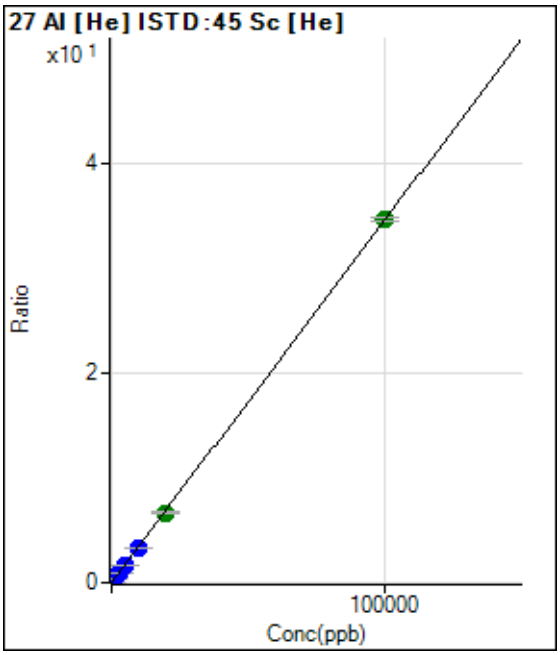
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4650.78	0.0199	P	2.6
2	☐	500.000	534.109	154607.72	0.6616	P	0.1
3	☐	5000.000	5034.854	1403842.83	6.0693	A	1.4
4	☐	12500.000	12614.920	3504109.32	15.1768	A	0.6
5	☐	25000.000	25091.272	6895103.51	30.1672	A	0.5
6	☐	50000.000	50833.316	13143176.75	61.0964	A	0.5
7	☐	100000.00	97128.939	25824302.67	116.7208	A	1.4
8	☐	500000.00	500483.06	123685942.6	601.3531	A	0.3

y = 0.0012 * x + 0.0199
R = 1.0000
DL = 1.277
BEC = 16.53

Weight: <None>
Min Conc: 0

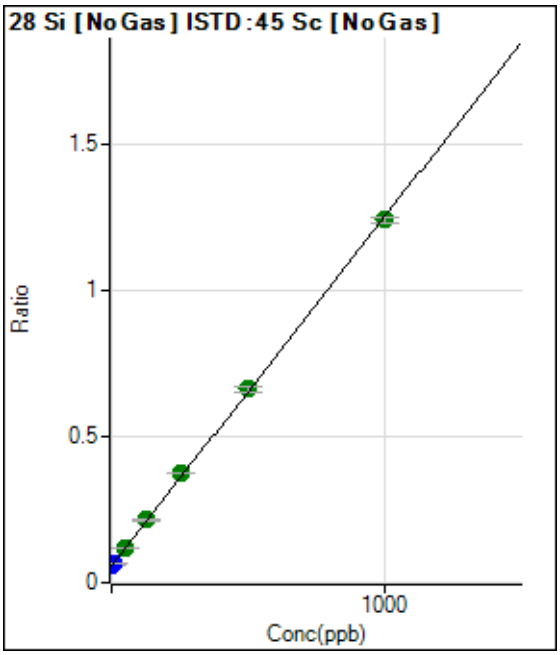


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0003	P	23.6
2	☐	20.000	20.337	1722.34	0.0074	P	2.1
3	☐	1000.000	958.242	76785.46	0.3320	P	2.2
4	☐	2500.000	2402.443	192068.14	0.8319	P	0.3
5	☐	5000.000	4822.560	381570.92	1.6695	P	0.7
6	☐	10000.000	9741.780	725378.44	3.3721	P	1.1
7	☐	20000.000	19343.237	1481358.52	6.6953	A	0.9
8	☐	100000.00	100168.90	7130685.38	34.6704	A	1.1

y = 3.4612E-004 * x + 3.3179E-004
R = 1.0000
DL = 0.6799
BEC = 0.9586

Weight: <None>
Min Conc: 0

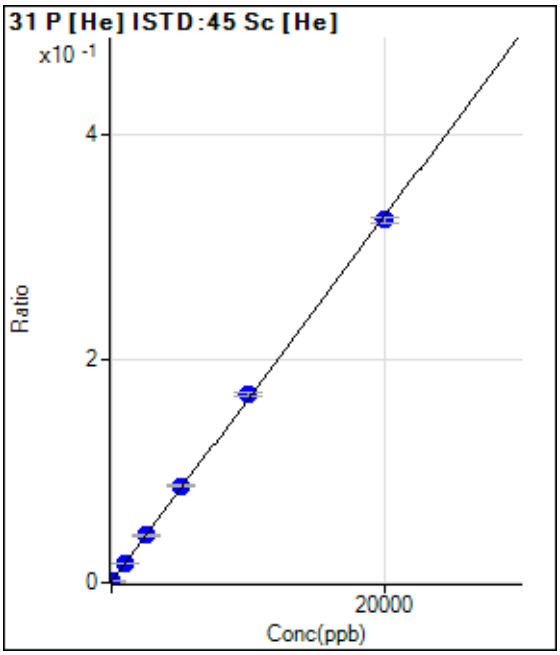
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	649404.83	0.0569	P	2.1
2	☐	10.000	7.787	744095.66	0.0662	P	0.6
3	☐	50.000	52.460	1330772.59	0.1195	A	0.6
4	☐	125.000	132.061	2365208.98	0.2145	A	1.6
5	☐	250.000	265.033	4064727.09	0.3732	A	0.6
6	☐	500.000	507.374	7128445.59	0.6625	A	3.0
7	☐	1000.000	991.571	13161651.47	1.2405	A	1.3
8	☐			810986.71	0.0842	P	1.1

y = 0.0012 * x + 0.0569
R = 0.9998
DL = 2.998
BEC = 47.64

Weight: <None>
Min Conc: 0

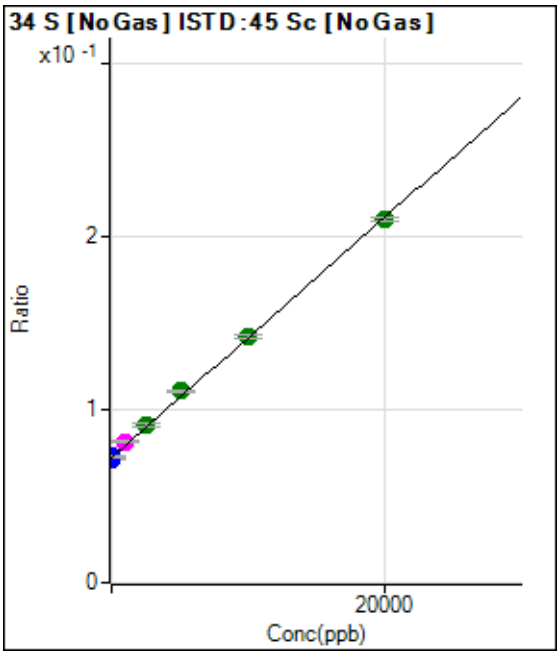


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-18.210	110.00	0.0005	P	21.6
2	☐	0.000	18.210	248.89	0.0011	P	12.5
3	☐	1000.000	1010.216	3995.04	0.0173	P	6.8
4	☐	2500.000	2533.847	9735.56	0.0422	P	1.4
5	☐	5000.000	5252.014	19789.14	0.0866	P	1.4
6	☐	10000.000	10268.387	36251.89	0.1685	P	1.6
7	☐	20000.000	19798.061	71736.05	0.3242	P	1.3
8	☐			111.11	0.0005	P	22.0

y = 1.6338E-005 * x + 7.6787E-004
R = 0.9998
DL = 21.59
BEC = 47

Weight: <None>
Min Conc: 0

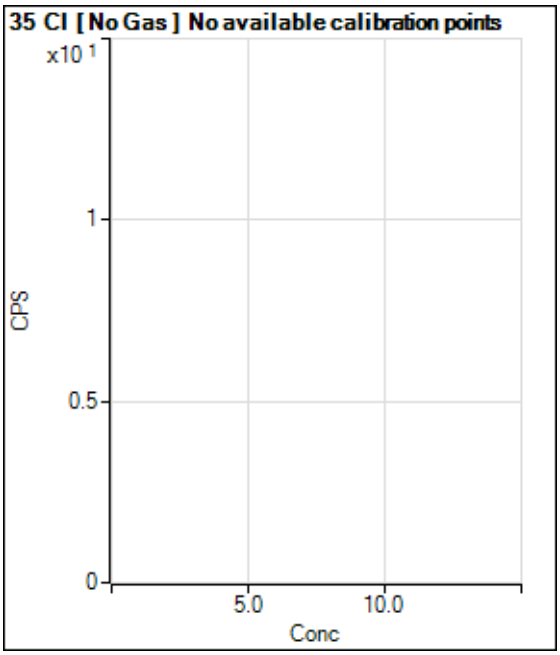
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-85.005	819535.25	0.0718	P	2.4
2	☐	0.000	85.005	820440.18	0.0730	P	0.9
3	☐	1000.000	1299.045	906511.04	0.0814	M	1.2
4	☐	2500.000	2756.900	1009217.73	0.0915	A	2.0
5	☐	5000.000	5535.280	1207156.98	0.1109	A	1.6
6	☐	10000.000	10066.160	1532039.70	0.1424	A	1.8
7	☐	20000.000	19786.035	2227605.89	0.2099	A	1.1
8	☐			665329.30	0.0691	P	2.3

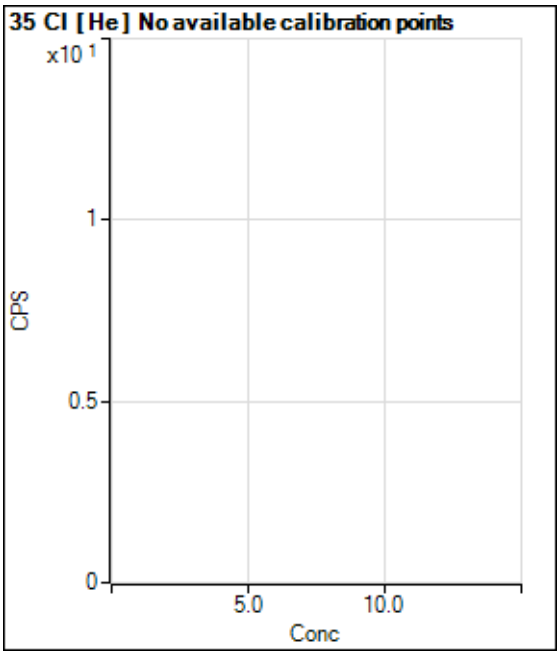
y = 6.9536E-006 * x + 0.0724
R = 0.9995
DL = 506.2
BEC = 1.041E+04

Weight: <None>
Min Conc: 0

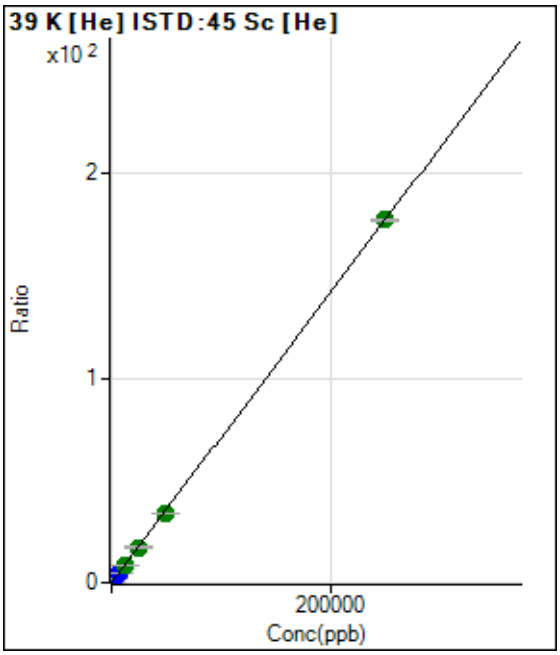


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			167891.88		P	0.4
2	☐			169064.32		P	0.9
3	☐			163879.92		P	0.5
4	☐			164354.36		P	0.5
5	☐			171655.02		P	0.4
6	☐			175272.29		P	0.5
7	☐			197625.40		P	1.5
8	☐			156089.64		P	0.7

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			690.02		P	7.8
2	☐			717.81		P	9.8
3	☐			686.69		P	5.1
4	☐			700.03		P	6.4
5	☐			713.36		P	7.3
6	☐			726.69		P	2.9
7	☐			876.70		P	4.9
8	☐			691.14		P	4.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13211.70	0.0564	P	1.3
2	☐	500.000	508.771	97328.29	0.4165	P	0.7
3	☐	2500.000	2369.609	400974.09	1.7334	P	0.7
4	☐	6250.000	5988.420	991539.96	4.2945	P	0.8
5	☐	12500.000	12363.353	2012754.64	8.8062	A	1.5
6	☐	25000.000	24429.184	3731054.67	17.3454	A	1.5
7	☐	50000.000	47709.475	7483021.42	33.8212	A	1.2
8	☐	250000.00	250529.84	36479288.07	177.3607	A	0.4

y = 7.0772E-004 * x + 0.0564
R = 1.0000
DL = 3.228
BEC = 79.73

Weight: <None>
Min Conc: 0

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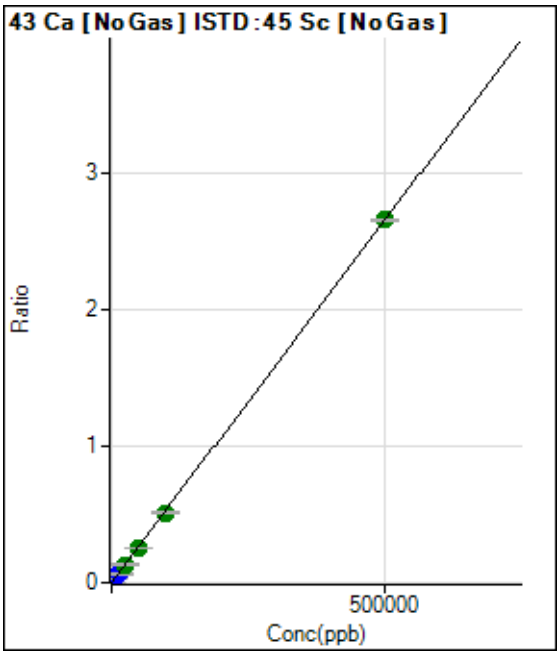
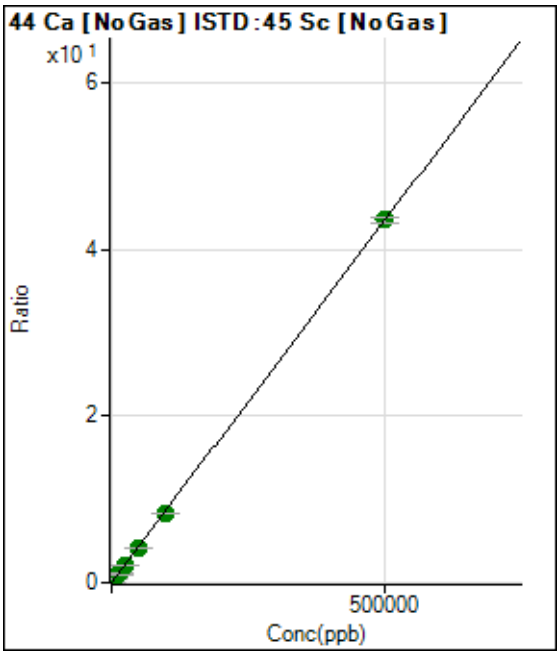


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	690.02	0.0001	P	4.2
2	☐	500.000	518.193	31534.58	0.0028	P	1.1
3	☐	5000.000	4786.836	282942.43	0.0254	P	1.1
4	☐	12500.000	12036.520	703282.84	0.0638	P	2.5
5	☐	25000.000	25094.048	1447565.15	0.1329	A	1.3
6	☐	50000.000	48032.999	2736593.88	0.2544	A	4.1
7	☐	100000.00	96259.368	5408626.03	0.5097	A	1.4
8	☐	500000.00	500953.82	25543196.01	2.6525	A	0.7

y = 5.2947E-006 * x + 6.0374E-005
R = 1.0000
DL = 1.451
BEC = 11.4

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34224.02	0.0030	P	1.5
2	☐	500.000	510.497	532926.39	0.0474	P	1.0
3	☐	5000.000	4752.829	4636360.49	0.4163	A	0.5
4	☐	12500.000	11950.698	11491016.08	1.0422	A	2.0
5	☐	25000.000	24363.907	23105687.71	2.1216	A	1.5
6	☐	50000.000	47208.658	44206963.79	4.1082	A	2.5
7	☐	100000.00	95505.588	88153443.13	8.3080	A	0.8
8	☐	500000.00	501226.01	419745478.1	43.5889	A	1.3

y = 8.6959E-005 * x + 0.0030
R = 0.9999
DL = 1.565
BEC = 34.46

Weight: <None>
Min Conc: 0

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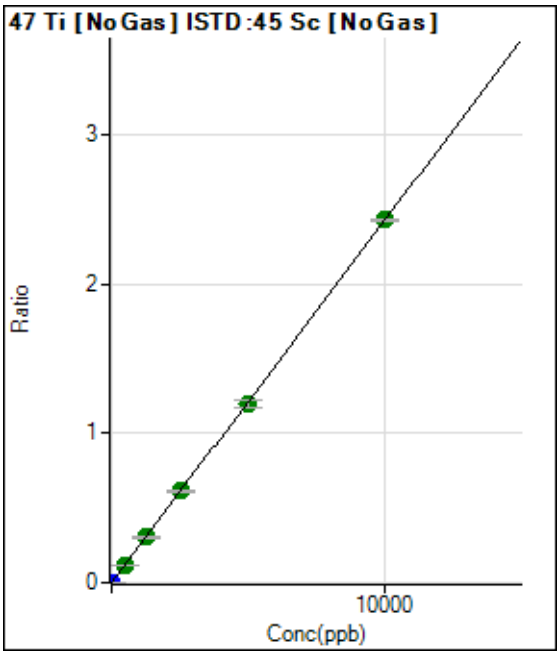
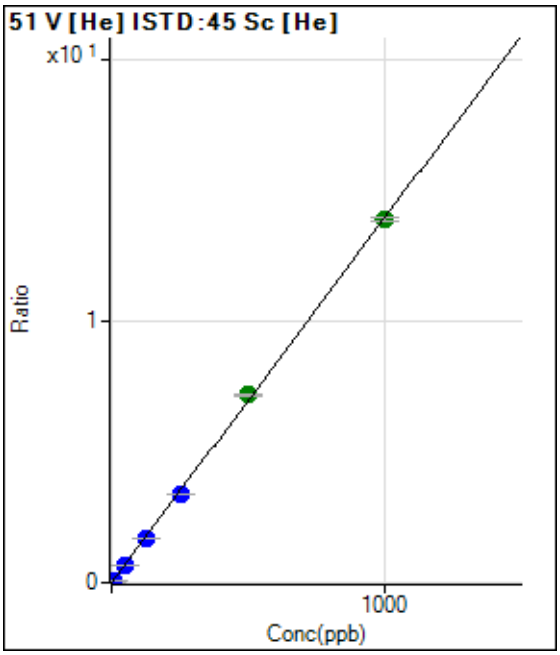


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.67	0.0000	P	1.9
2	☐	5.000	5.314	14716.55	0.0013	P	1.7
3	☐	500.000	498.276	1344304.79	0.1207	A	1.6
4	☐	1250.000	1251.929	3343781.55	0.3032	A	1.7
5	☐	2500.000	2534.076	6684766.36	0.6138	A	1.3
6	☐	5000.000	4942.644	12880212.45	1.1972	A	3.4
7	☐	10000.000	10020.004	25751142.12	2.4269	A	0.3
8	☐			3381.55	0.0004	P	6.8

y = 2.4221E-004 * x + 2.1592E-005
R = 1.0000
DL = 0.005208
BEC = 0.08915

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	49.3
2	☐	5.000	5.249	17095.88	0.0732	P	2.8
3	☐	50.000	47.997	154668.62	0.6687	P	1.8
4	☐	125.000	120.733	388370.26	1.6821	P	0.4
5	☐	250.000	243.612	775720.42	3.3940	P	0.8
6	☐	500.000	514.457	1541841.30	7.1675	A	1.1
7	☐	1000.000	995.001	3067117.63	13.8624	A	0.9
8	☐			821.14	0.0040	P	7.0

y = 0.0139 * x + 2.8398E-005
R = 0.9998
DL = 0.003017
BEC = 0.002038

Weight: <None>
Min Conc: 0

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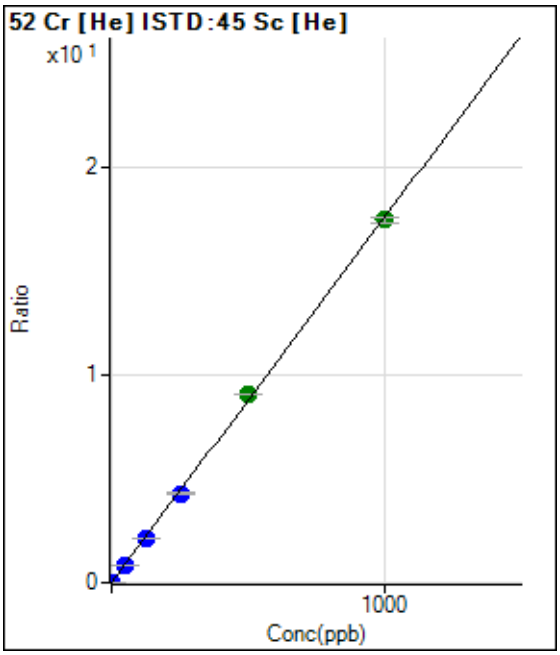
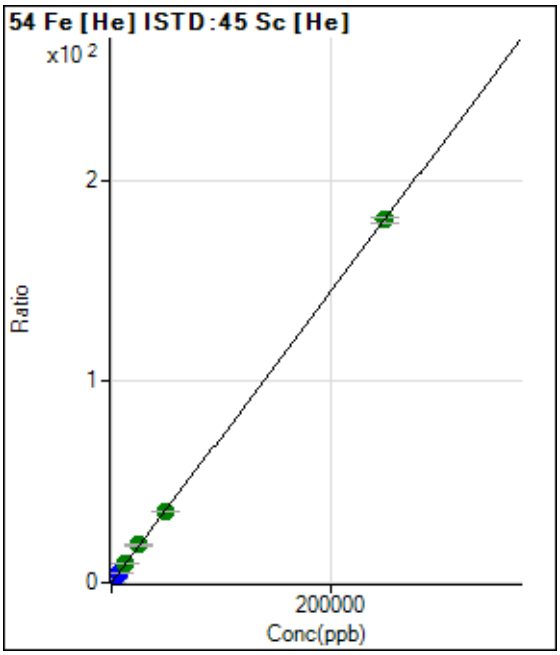


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1676.78	0.0072	P	4.8
2	☐	2.000	2.097	10296.00	0.0441	P	2.4
3	☐	50.000	48.670	199693.88	0.8633	P	1.1
4	☐	125.000	121.497	495134.91	2.1445	P	0.3
5	☐	250.000	244.524	984774.30	4.3087	P	0.6
6	☐	500.000	516.772	1957243.77	9.0979	A	0.1
7	☐	1000.000	993.487	3868422.75	17.4839	A	1.8
8	☐			9464.32	0.0460	P	2.6

y = 0.0176 * x + 0.0072
R = 0.9998
DL = 0.05836
BEC = 0.4072

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	548.91	0.0023	P	10.2
2	☐	50.000	55.250	9862.35	0.0422	P	2.1
3	☐	2500.000	2477.871	413996.65	1.7900	P	2.0
4	☐	6250.000	6182.846	1030387.67	4.4628	P	0.9
5	☐	12500.000	12753.925	2103592.02	9.2034	A	1.1
6	☐	25000.000	25860.234	4013241.82	18.6587	A	2.4
7	☐	50000.000	49181.686	7850713.22	35.4834	A	1.4
8	☐	250000.00	250066.84	37104507.78	180.4078	A	1.4

y = 7.2143E-004 * x + 0.0023
R = 1.0000
DL = 0.9953
BEC = 3.251

Weight: <None>
Min Conc: 0

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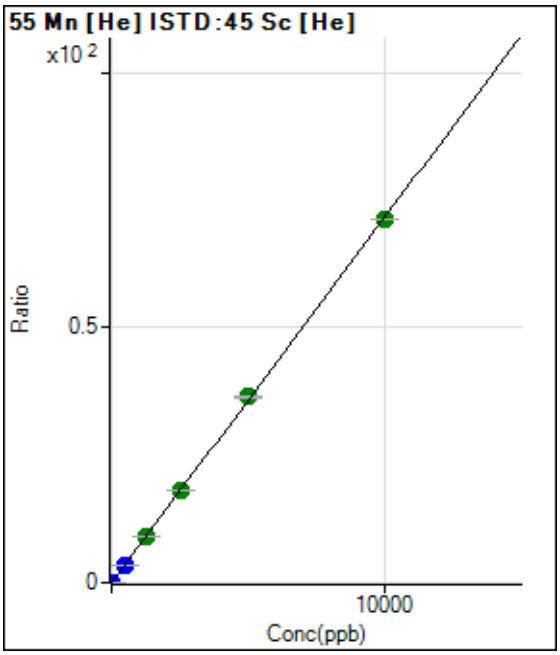
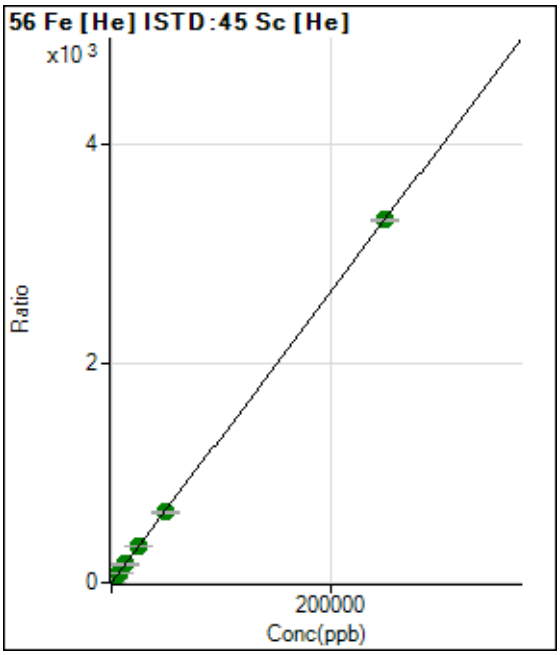


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0006	P	0.8
2	☐	1.000	1.063	1917.93	0.0082	P	6.6
3	☐	500.000	491.924	814525.97	3.5217	P	1.9
4	☐	1250.000	1280.839	2116839.95	9.1685	A	1.4
5	☐	2500.000	2543.569	4161235.15	18.2067	A	0.7
6	☐	5000.000	5093.562	7843167.52	36.4588	A	0.4
7	☐	10000.000	9938.876	15740324.63	71.1401	A	0.1
8	☐			6856.16	0.0333	P	3.7

y = 0.0072 * x + 6.0273E-004
R = 0.9999
DL = 0.00201
BEC = 0.08421

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6719.42	0.0287	P	6.5
2	☐	50.000	53.740	172473.19	0.7381	P	0.6
3	☐	2500.000	2495.735	7626117.11	32.9716	A	1.8
4	☐	6250.000	6289.400	19174160.27	83.0469	A	0.7
5	☐	12500.000	12677.636	38252405.54	167.3697	A	1.7
6	☐	25000.000	25462.262	72307056.14	336.1229	A	0.7
7	☐	50000.000	48540.308	141766919.0	640.7461	A	0.9
8	☐	250000.00	250235.88	679358478.7	3,303.066	A	0.9

y = 0.0132 * x + 0.0287
R = 1.0000
DL = 0.4211
BEC = 2.175

Weight: <None>
Min Conc: 0

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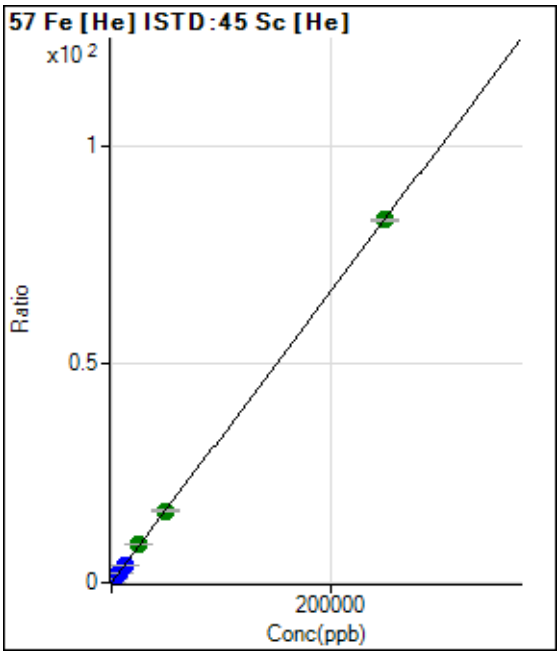
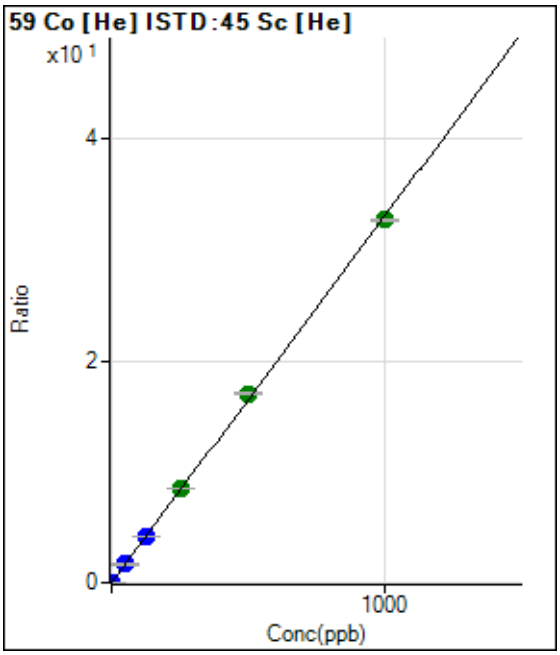


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0008	P	11.6
2	☐	50.000	51.927	4222.89	0.0181	P	4.3
3	☐	2500.000	2453.575	188621.39	0.8155	P	1.8
4	☐	6250.000	6107.893	468434.01	2.0289	P	0.6
5	☐	12500.000	12320.743	935197.80	4.0918	P	1.1
6	☐	25000.000	26145.578	1867412.80	8.6821	A	2.3
7	☐	50000.000	49627.171	3646140.36	16.4788	A	1.5
8	☐	250000.00	249972.98	17071398.63	83.0006	A	0.7

y = 3.3204E-004 * x + 8.3101E-004
R = 1.0000
DL = 0.8674
BEC = 2.503

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.44	0.0004	P	15.6
2	☐	1.000	1.177	9179.70	0.0393	P	1.9
3	☐	50.000	50.076	382669.05	1.6545	P	1.7
4	☐	125.000	124.309	948132.41	4.1064	P	0.1
5	☐	250.000	257.214	1941901.15	8.4964	A	0.6
6	☐	500.000	515.060	3659759.08	17.0132	A	1.1
7	☐	1000.000	990.749	7240736.56	32.7257	A	0.5
8	☐			15191.56	0.0739	P	3.1

y = 0.0330 * x + 4.0309E-004
R = 0.9998
DL = 0.005726
BEC = 0.0122

Weight: <None>
Min Conc: 0

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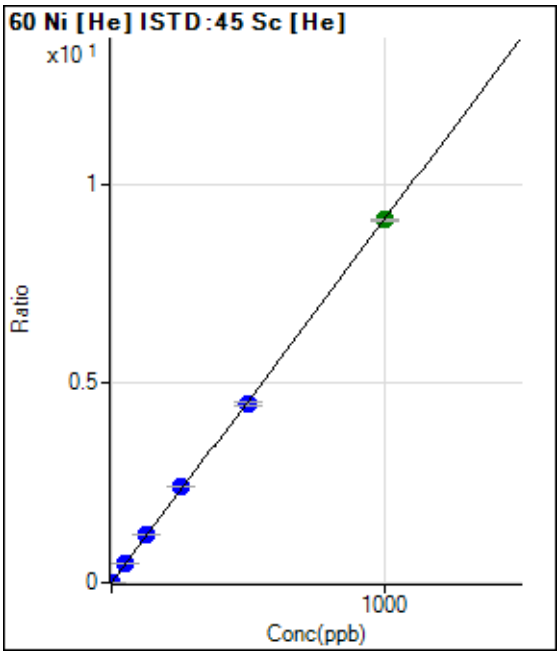
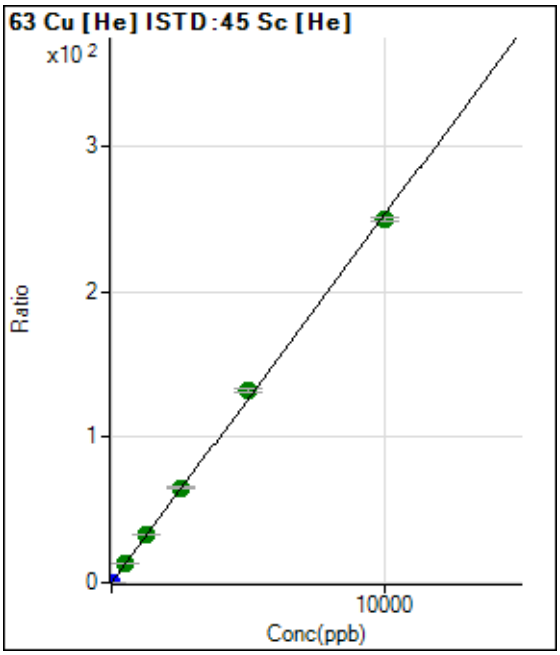


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	715.58	0.0031	P	4.3
2	☐	1.000	1.099	3054.80	0.0131	P	4.8
3	☐	50.000	52.813	112078.86	0.4846	P	2.1
4	☐	125.000	133.262	281245.83	1.2181	P	0.1
5	☐	250.000	265.984	554979.55	2.4282	P	0.8
6	☐	500.000	492.336	966228.30	4.4920	P	1.8
7	☐	1000.000	998.663	2015333.86	9.1086	A	0.6
8	☐			6512.65	0.0317	P	1.4

y = 0.0091 * x + 0.0031
R = 0.9998
DL = 0.04348
BEC = 0.3351

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3802.77	0.0162	P	4.4
2	☐	2.000	2.241	17038.11	0.0729	P	0.6
3	☐	500.000	523.552	3065583.67	13.2546	A	2.1
4	☐	1250.000	1288.834	7528313.99	32.6051	A	0.6
5	☐	2500.000	2583.770	14935792.28	65.3483	A	0.8
6	☐	5000.000	5218.698	28386633.47	131.9739	A	2.0
7	☐	10000.000	9863.677	55185646.40	249.4248	A	1.2
8	☐			11343.52	0.0551	P	0.8

y = 0.0253 * x + 0.0162
R = 0.9996
DL = 0.08399
BEC = 0.6425

Weight: <None>
Min Conc: 0

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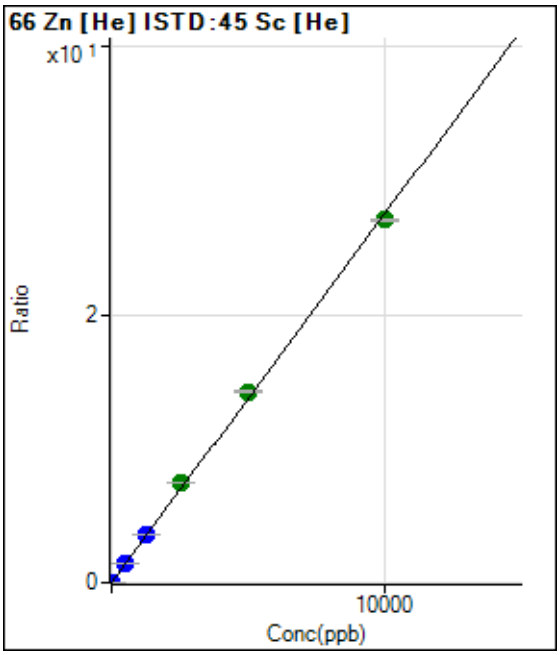
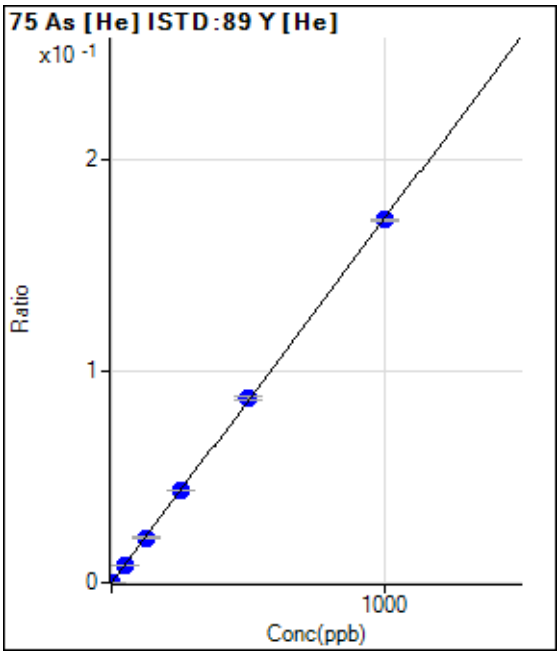


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.67	0.0014	P	3.4
2	☐	5.000	5.367	3781.65	0.0162	P	5.4
3	☐	500.000	518.470	329779.38	1.4258	P	1.7
4	☐	1250.000	1302.186	826299.04	3.5788	P	0.3
5	☐	2500.000	2706.708	1699886.59	7.4373	A	1.3
6	☐	5000.000	5188.463	3066439.99	14.2551	A	1.6
7	☐	10000.000	9846.645	5985352.27	27.0520	A	0.6
8	☐			2943.67	0.0143	P	4.9

y = 0.0027 * x + 0.0014
R = 0.9995
DL = 0.05348
BEC = 0.5236

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	51.4
2	☐	1.000	1.101	410.01	0.0002	P	12.0
3	☐	50.000	49.317	18056.10	0.0085	P	1.9
4	☐	125.000	123.585	45255.79	0.0213	P	1.0
5	☐	250.000	254.042	90612.10	0.0437	P	1.3
6	☐	500.000	505.347	173574.69	0.0870	P	2.2
7	☐	1000.000	996.527	347359.22	0.1716	P	0.9
8	☐			225.56	0.0001	P	7.3

y = 1.7215E-004 * x + 3.0948E-006
R = 1.0000
DL = 0.02769
BEC = 0.01798

Weight: <None>
Min Conc: 0

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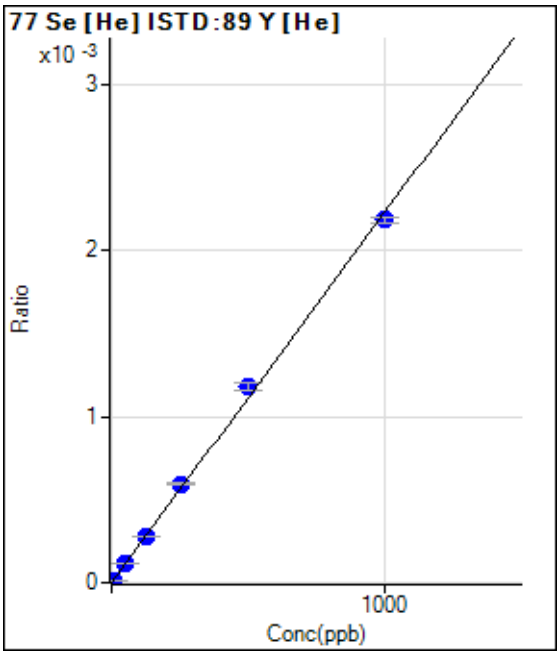
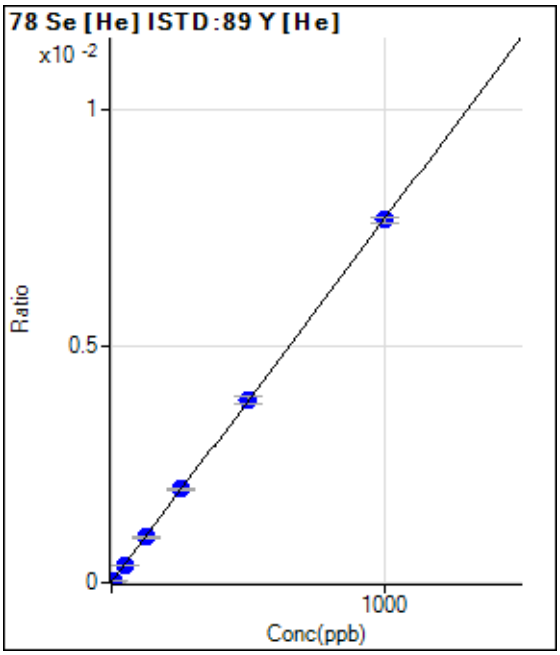


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.451	21.11	0.0000	P	45.7
3	☐	50.000	52.248	247.78	0.0001	P	6.2
4	☐	125.000	124.836	592.24	0.0003	P	3.0
5	☐	250.000	266.663	1232.29	0.0006	P	3.1
6	☐	500.000	530.681	2361.34	0.0012	P	4.5
7	☐	1000.000	980.405	4428.52	0.0022	P	1.8
8	☐			1.11	0.0000	P	173.

y = 2.2306E-006 * x + 0.0000E+000
R = 0.9991
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	69.4
2	☐	5.000	4.161	84.44	0.0000	P	22.3
3	☐	50.000	47.734	795.59	0.0004	P	4.4
4	☐	125.000	124.666	2052.40	0.0010	P	4.6
5	☐	250.000	256.667	4099.52	0.0020	P	1.3
6	☐	500.000	501.636	7699.95	0.0039	P	3.3
7	☐	1000.000	997.674	15527.52	0.0077	P	1.4
8	☐			6.67	0.0000	P	50.0

y = 7.6790E-006 * x + 7.7181E-006
R = 1.0000
DL = 2.093
BEC = 1.005

Weight: <None>
Min Conc: 0

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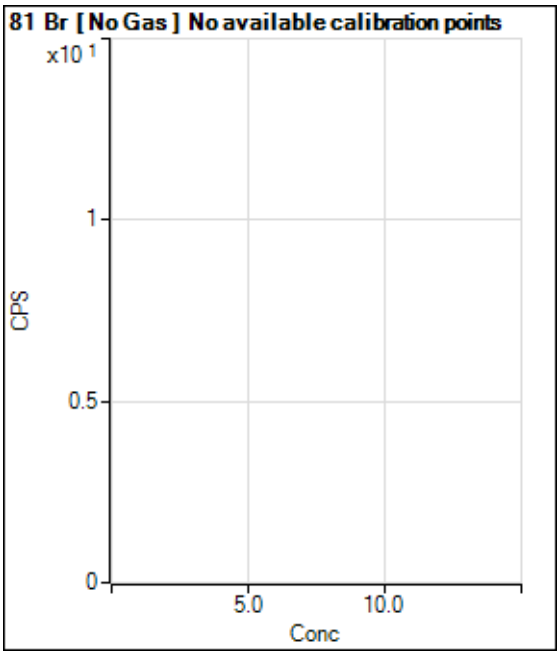
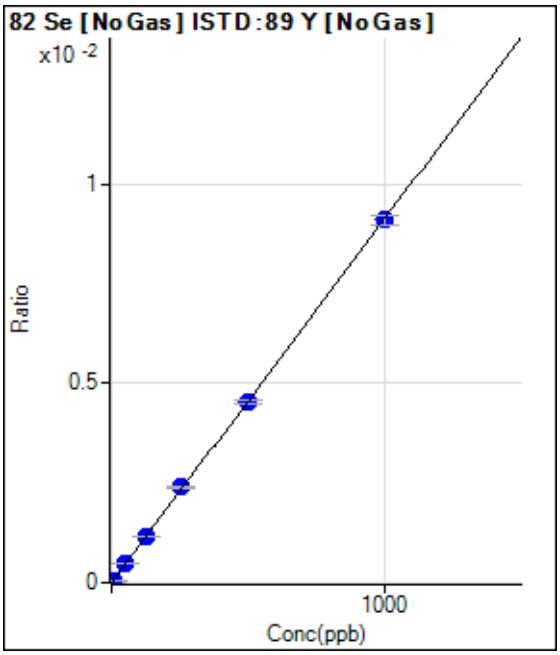


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4261.80		P	3.0
2	☐			4142.87		P	4.0
3	☐			4071.74		P	3.5
4	☐			3906.14		P	0.3
5	☐			4032.84		P	2.3
6	☐			3793.88		P	6.9
7	☐			4015.06		P	1.6
8	☐			4030.63		P	0.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	31.1
2	☐	5.000	5.266	1333.44	0.0000	P	0.6
3	☐	50.000	51.025	12593.78	0.0005	P	2.5
4	☐	125.000	127.157	31817.86	0.0012	P	1.9
5	☐	250.000	261.843	64314.24	0.0024	P	0.8
6	☐	500.000	498.169	121133.77	0.0045	P	1.9
7	☐	1000.000	997.632	240624.74	0.0091	P	2.7
8	☐			27.78	0.0000	P	203.

y = 9.1244E-006 * x + 7.1409E-007
R = 0.9999
DL = 0.07291
BEC = 0.07826

Weight: <None>
Min Conc: 0

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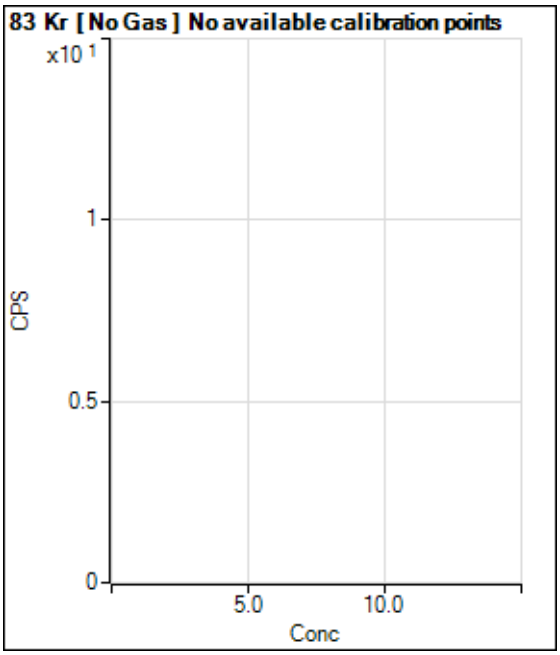
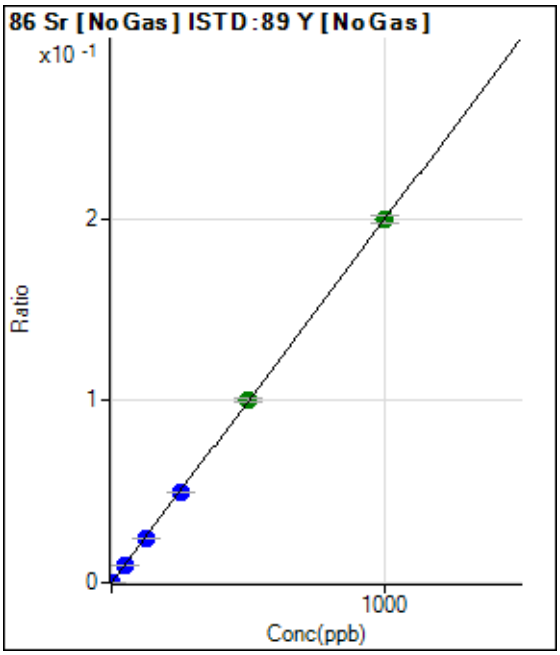


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			290.01		P	14.1
2	☐			265.56		P	13.8
3	☐			285.56		P	3.6
4	☐			295.56		P	12.8
5	☐			230.00		P	5.2
6	☐			310.01		P	19.1
7	☐			294.45		P	11.8
8	☐			318.90		P	18.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	503.35	0.0000	P	17.9
2	☐	1.000	1.067	6320.38	0.0002	P	3.2
3	☐	50.000	48.748	263444.41	0.0098	P	1.5
4	☐	125.000	121.053	663107.09	0.0242	P	1.4
5	☐	250.000	248.670	1337004.91	0.0497	P	0.7
6	☐	500.000	503.273	2678684.96	0.1005	A	2.0
7	☐	1000.000	999.252	5276047.42	0.1996	A	2.3
8	☐			16602.15	0.0007	P	0.5

y = 1.9972E-004 * x + 1.8108E-005
R = 1.0000
DL = 0.04869
BEC = 0.09067

Weight: <None>
Min Conc: 0

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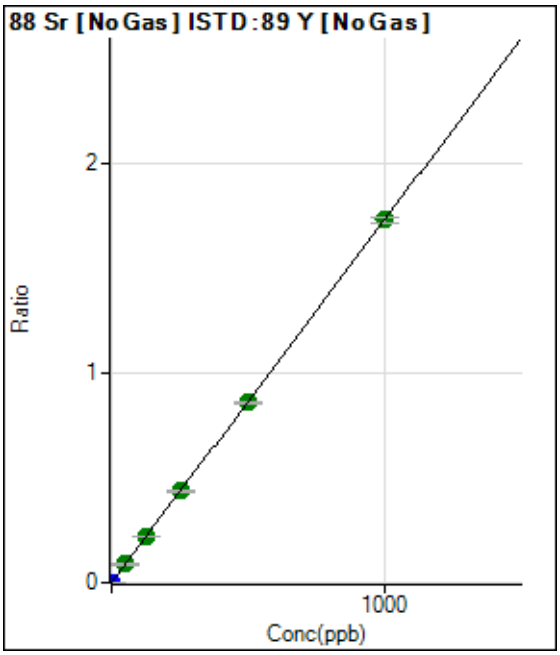
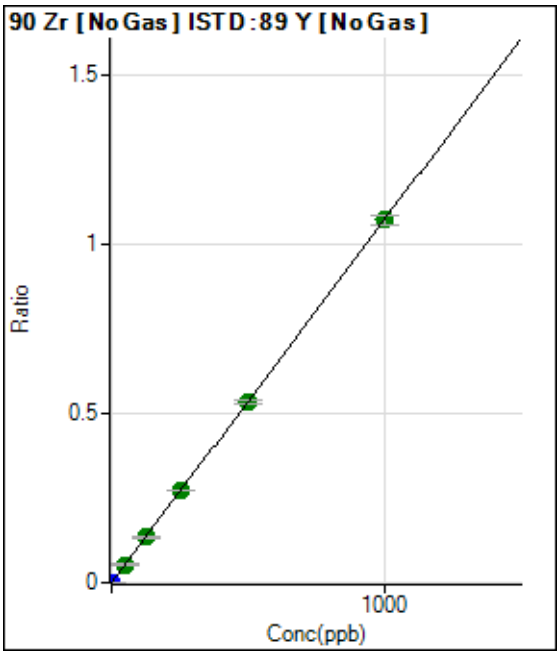


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	361.12	0.0000	P	9.6
2	☐	1.000	1.061	50573.40	0.0018	P	1.1
3	☐	50.000	50.542	2363414.46	0.0875	A	2.1
4	☐	125.000	125.638	5961953.32	0.2175	A	0.9
5	☐	250.000	253.008	11787023.44	0.4380	A	1.5
6	☐	500.000	497.856	22966438.82	0.8619	A	1.1
7	☐	1000.000	1000.213	45774527.65	1.7315	A	1.6
8	☐			140271.68	0.0059	P	0.8

y = 0.0017 * x + 1.2973E-005
R = 1.0000
DL = 0.002168
BEC = 0.007494

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	933.37	0.0000	P	10.0
2	☐	1.000	1.036	31344.06	0.0011	P	1.5
3	☐	50.000	50.234	1458625.85	0.0540	A	1.4
4	☐	125.000	125.265	3689437.79	0.1346	A	2.1
5	☐	250.000	254.857	7370100.72	0.2739	A	0.5
6	☐	500.000	498.474	14271543.12	0.5356	A	1.7
7	☐	1000.000	999.504	28386090.13	1.0739	A	2.9
8	☐			47730.31	0.0020	P	1.0

y = 0.0011 * x + 3.3502E-005
R = 1.0000
DL = 0.009329
BEC = 0.03118

Weight: <None>
Min Conc: 0

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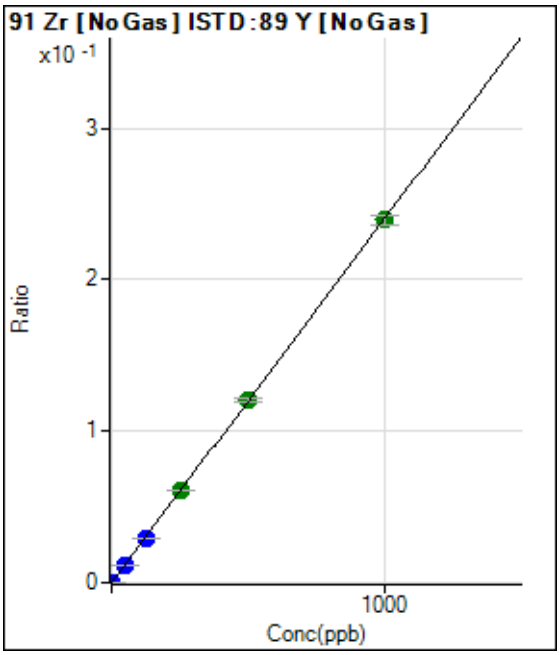
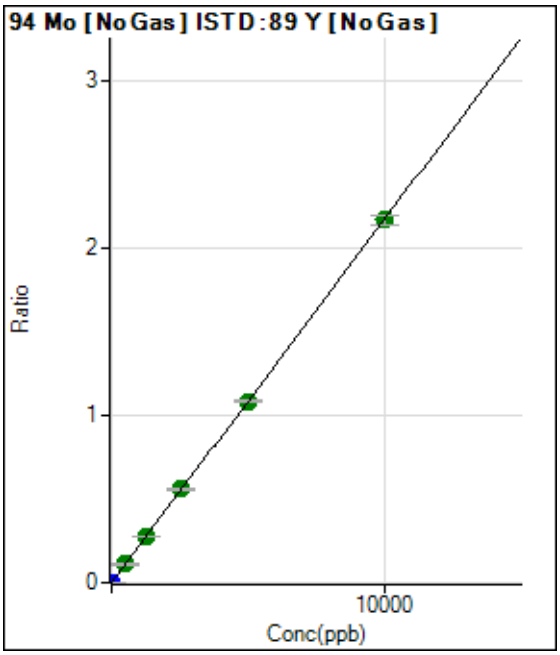


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	10.2
2	☐	1.000	1.018	6833.96	0.0002	P	2.0
3	☐	50.000	48.102	311926.87	0.0115	P	1.2
4	☐	125.000	120.019	789514.89	0.0288	P	1.3
5	☐	250.000	255.030	1647170.51	0.0612	A	0.8
6	☐	500.000	503.997	3222730.05	0.1209	A	2.0
7	☐	1000.000	997.461	6326876.22	0.2394	A	2.8
8	☐			10741.98	0.0004	P	2.2

y = 2.3997E-004 * x + 5.5880E-006
R = 1.0000
DL = 0.007123
BEC = 0.02329

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	374.45	0.0000	P	7.1
2	☐	5.000	6.204	37155.13	0.0014	P	1.2
3	☐	500.000	507.536	2972811.31	0.1101	A	2.4
4	☐	1250.000	1248.840	7423134.54	0.2708	A	0.6
5	☐	2500.000	2569.945	14998598.39	0.5573	A	0.7
6	☐	5000.000	4996.107	28869797.35	1.0834	A	1.3
7	☐	10000.000	9984.228	57231410.81	2.1651	A	2.5
8	☐			24312.45	0.0010	P	3.7

y = 2.1685E-004 * x + 1.3430E-005
R = 1.0000
DL = 0.0131
BEC = 0.06193

Weight: <None>
Min Conc: 0

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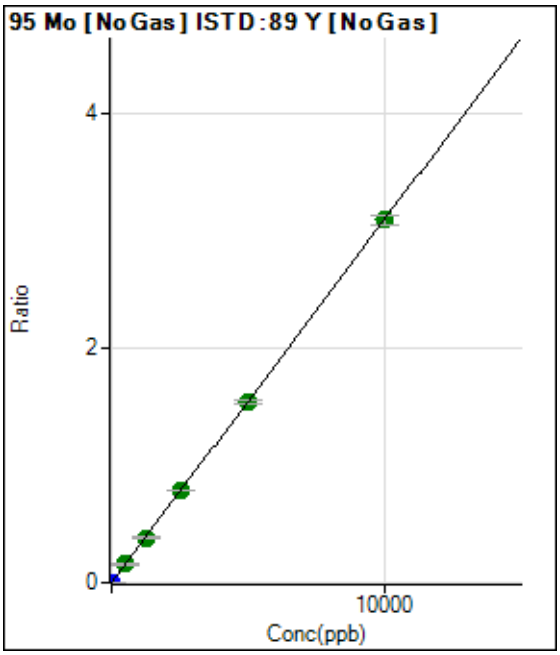
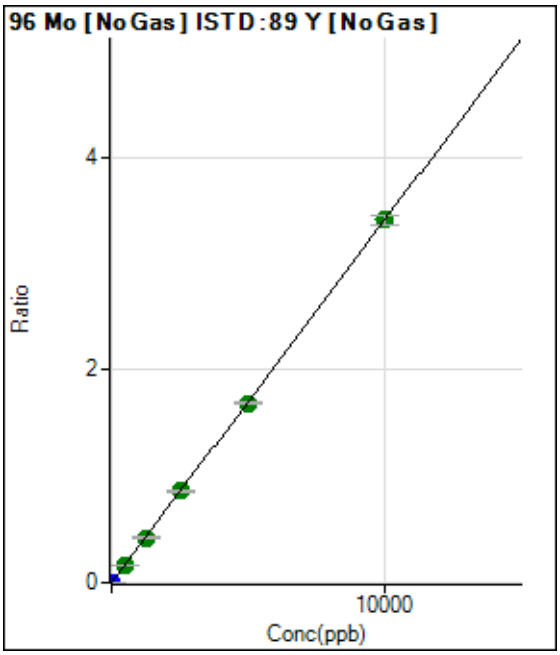


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0000	P	18.5
2	☐	5.000	5.230	44336.01	0.0016	P	1.1
3	☐	500.000	503.724	4203426.02	0.1556	A	1.9
4	☐	1250.000	1244.379	10538539.22	0.3845	A	1.2
5	☐	2500.000	2551.599	21215449.27	0.7883	A	0.7
6	☐	5000.000	4988.449	41067384.67	1.5412	A	1.6
7	☐	10000.000	9993.392	81611594.34	3.0875	A	2.5
8	☐			11916.47	0.0005	P	5.5

y = 3.0896E-004 * x + 5.6323E-006
R = 1.0000
DL = 0.01011
BEC = 0.01823

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0000	P	7.9
2	☐	5.000	5.254	49136.49	0.0018	P	0.8
3	☐	500.000	503.167	4628719.93	0.1714	A	0.3
4	☐	1250.000	1242.574	11598042.33	0.4232	A	1.4
5	☐	2500.000	2534.354	23226559.93	0.8631	A	1.2
6	☐	5000.000	4961.079	45021057.66	1.6895	A	0.8
7	☐	10000.000	10011.641	90125787.54	3.4095	A	2.4
8	☐			16038.31	0.0007	P	4.7

y = 3.4056E-004 * x + 7.6478E-006
R = 1.0000
DL = 0.0053
BEC = 0.02246

Weight: <None>
Min Conc: 0

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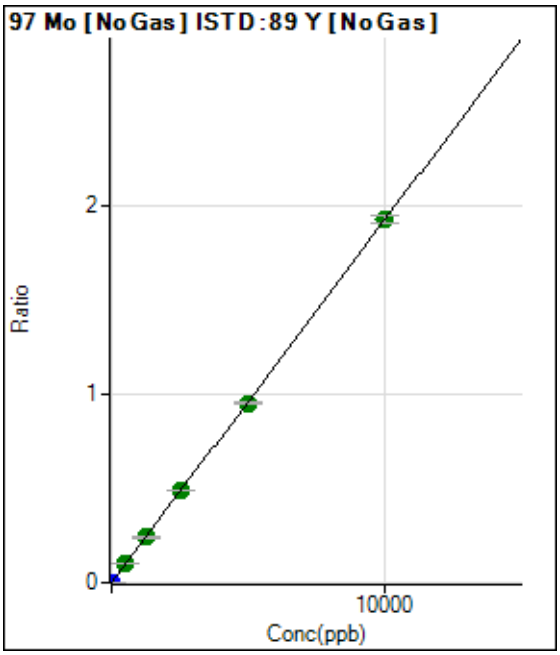
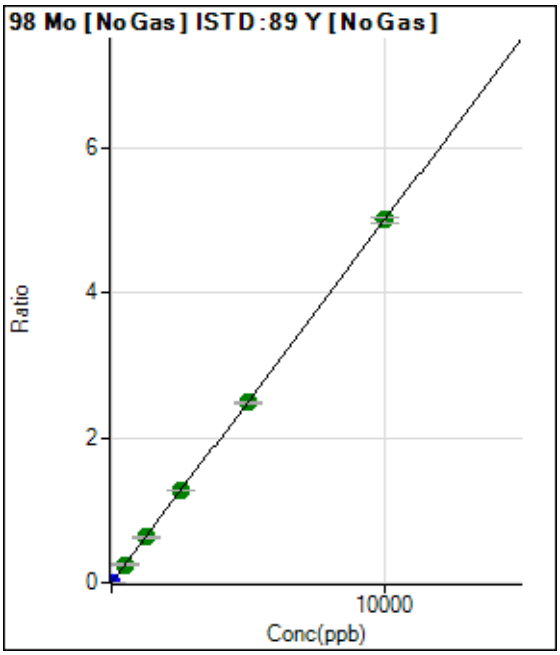


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0000	P	9.4
2	☐	5.000	5.316	27983.80	0.0010	P	2.4
3	☐	500.000	508.044	2633141.54	0.0975	A	0.9
4	☐	1250.000	1250.812	6577813.17	0.2400	A	2.1
5	☐	2500.000	2548.069	13157592.72	0.4889	A	1.2
6	☐	5000.000	4951.194	25315910.73	0.9501	A	0.9
7	☐	10000.000	10011.882	50784152.58	1.9211	A	2.0
8	☐			6929.60	0.0003	P	6.5

y = 1.9188E-004 * x + 3.5127E-006
R = 1.0000
DL = 0.005169
BEC = 0.01831

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.12	0.0000	P	14.9
2	☐	5.000	5.190	71276.11	0.0026	P	2.1
3	☐	500.000	503.835	6813729.83	0.2523	A	1.8
4	☐	1250.000	1247.432	17119181.13	0.6246	A	1.0
5	☐	2500.000	2541.961	34251370.60	1.2728	A	1.3
6	☐	5000.000	4961.580	66196053.46	2.4843	A	1.6
7	☐	10000.000	10008.849	132482390.2	5.0115	A	1.6
8	☐			17545.91	0.0007	P	6.0

y = 5.0071E-004 * x + 8.2843E-006
R = 1.0000
DL = 0.007404
BEC = 0.01655

Weight: <None>
Min Conc: 0

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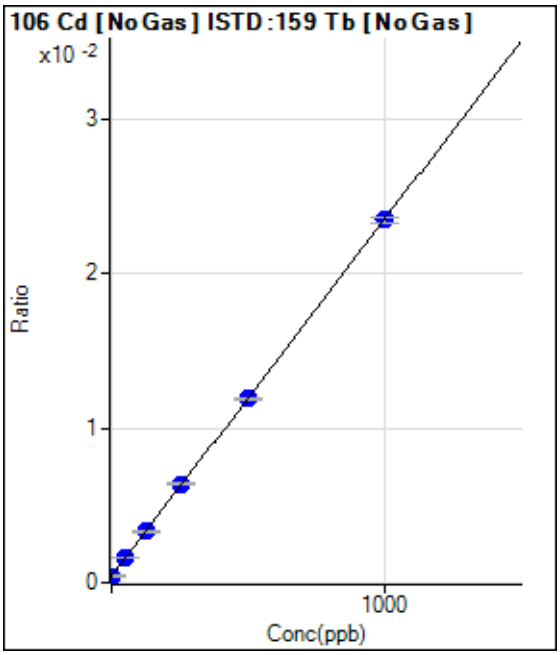
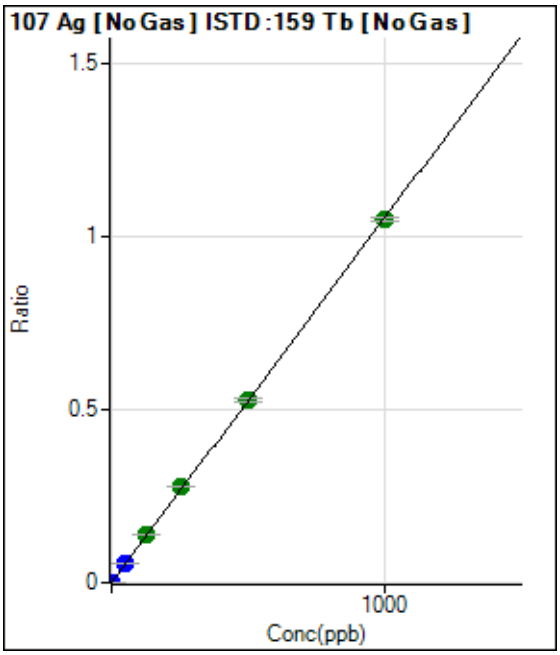


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8102.47	0.0004	P	1.7
2	☐	1.000	0.990	8395.97	0.0004	P	1.7
3	☐	50.000	52.438	31430.25	0.0016	P	1.2
4	☐	125.000	126.388	65580.35	0.0033	P	2.3
5	☐	250.000	259.284	124870.92	0.0064	P	1.6
6	☐	500.000	497.559	230555.04	0.0119	P	1.1
7	☐	1000.000	998.604	450449.33	0.0235	P	1.4
8	☐			7195.27	0.0004	P	0.8

y = 2.3099E-005 * x + 4.0910E-004
R = 0.9999
DL = 0.9114
BEC = 17.71

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	17.0
2	☐	1.000	1.060	21911.96	0.0011	P	2.3
3	☐	50.000	50.694	1037340.99	0.0535	P	1.0
4	☐	125.000	131.151	2726115.20	0.1383	A	1.0
5	☐	250.000	263.258	5419214.29	0.2777	A	1.5
6	☐	500.000	501.584	10247648.39	0.5291	A	2.0
7	☐	1000.000	995.090	20138358.59	1.0496	A	1.2
8	☐			2574.73	0.0001	P	13.2

y = 0.0011 * x + 9.9565E-006
R = 0.9999
DL = 0.004802
BEC = 0.00944

Weight: <None>
Min Conc: 0

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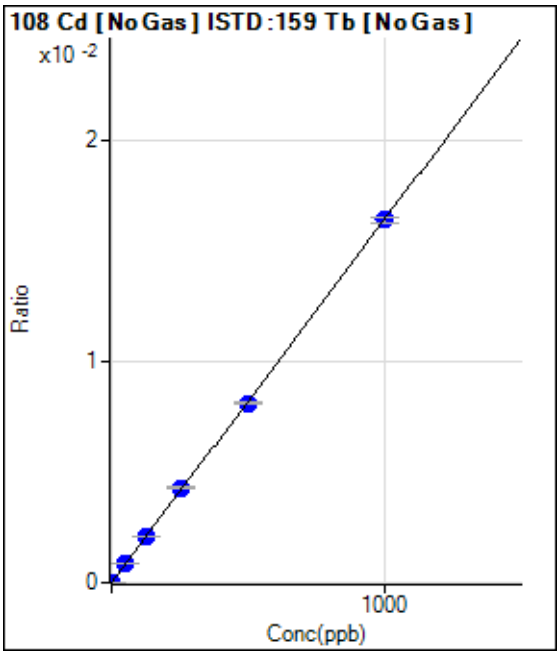
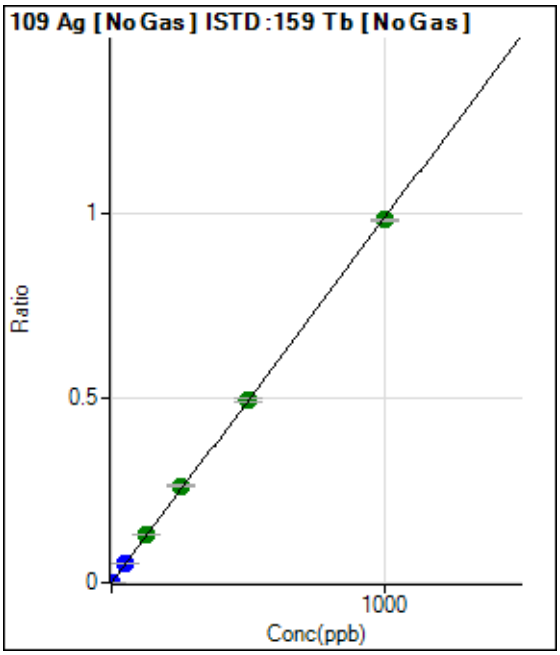


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.78	0.0000	P	63.6
2	☐	1.000	1.064	356.67	0.0000	P	7.5
3	☐	50.000	51.974	16565.63	0.0009	P	0.2
4	☐	125.000	127.638	41296.22	0.0021	P	2.6
5	☐	250.000	260.627	83503.07	0.0043	P	2.2
6	☐	500.000	495.139	157458.02	0.0081	P	0.5
7	☐	1000.000	999.345	314751.20	0.0164	P	1.8
8	☐			200.00	0.0000	P	13.5

y = 1.6415E-005 * x + 8.8904E-007
R = 0.9999
DL = 0.1033
BEC = 0.05416

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.56	0.0000	P	7.4
2	☐	1.000	1.065	20585.50	0.0011	P	2.2
3	☐	50.000	51.439	987783.73	0.0509	P	1.2
4	☐	125.000	131.325	2561557.32	0.1300	A	0.8
5	☐	250.000	264.209	5104147.04	0.2615	A	1.7
6	☐	500.000	501.417	9614332.85	0.4964	A	1.9
7	☐	1000.000	994.876	18896638.75	0.9848	A	0.8
8	☐			2398.02	0.0001	P	9.9

y = 9.8990E-004 * x + 4.8173E-006
R = 0.9999
DL = 0.001081
BEC = 0.004867

Weight: <None>
Min Conc: 0

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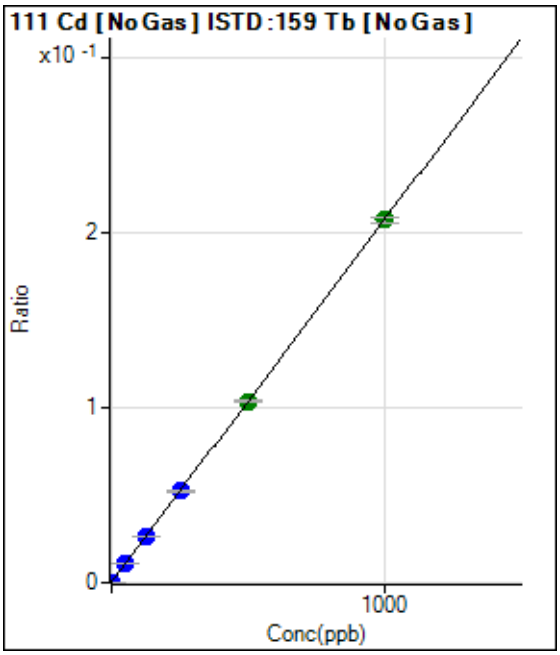
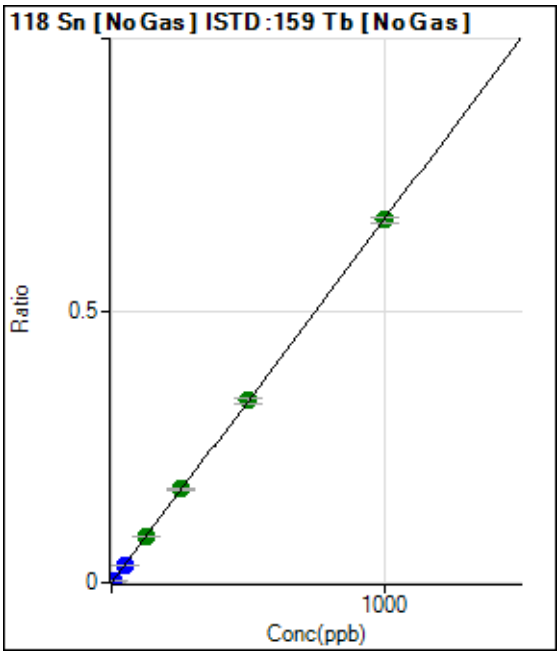


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5675.95	0.0003	P	1.9
2	☐	1.000	1.149	10193.87	0.0005	P	1.4
3	☐	50.000	50.490	208260.39	0.0107	P	1.0
4	☐	125.000	124.664	514043.12	0.0261	P	1.5
5	☐	250.000	252.841	1026835.55	0.0526	P	2.4
6	☐	500.000	499.405	2007874.40	0.1037	A	0.7
7	☐	1000.000	999.605	3975217.70	0.2072	A	1.5
8	☐			5598.93	0.0003	P	0.2

y = 2.0698E-004 * x + 2.8659E-004
R = 1.0000
DL = 0.07957
BEC = 1.385

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2081.36	0.0001	P	8.4
2	☐	5.000	5.462	73027.63	0.0038	P	2.7
3	☐	50.000	49.871	648927.15	0.0335	P	0.6
4	☐	125.000	126.722	1671888.95	0.0848	A	0.4
5	☐	250.000	256.830	3354170.16	0.1719	A	1.1
6	☐	500.000	500.001	6478751.85	0.3345	A	2.3
7	☐	1000.000	998.081	12808427.86	0.6676	A	1.3
8	☐			4315.17	0.0002	P	1.8

y = 6.6873E-004 * x + 1.0514E-004
R = 1.0000
DL = 0.0397
BEC = 0.1572

Weight: <None>
Min Conc: 0

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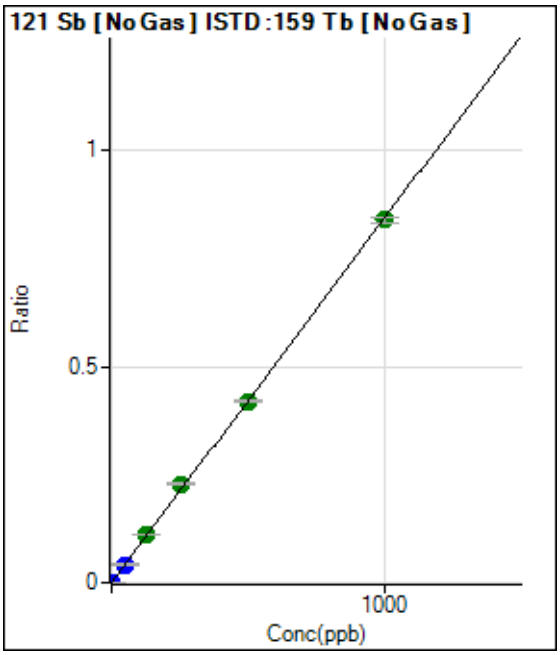
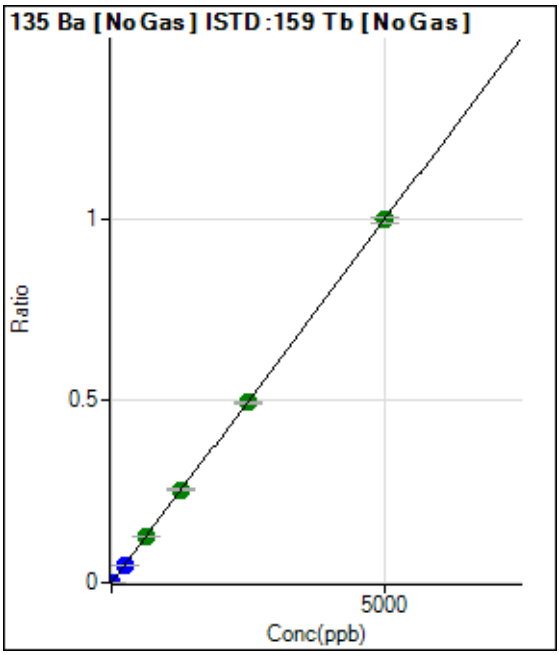


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0000	P	11.6
2	☐	2.000	2.188	35889.24	0.0018	P	2.6
3	☐	50.000	50.107	819217.98	0.0422	P	1.0
4	☐	125.000	130.501	2167335.47	0.1100	A	1.5
5	☐	250.000	270.473	4448843.55	0.2280	A	1.9
6	☐	500.000	497.794	8127108.42	0.4196	A	1.5
7	☐	1000.000	995.291	16096043.79	0.8389	A	1.4
8	☐			6288.17	0.0004	P	3.8

y = 8.4285E-004 * x + 2.4137E-006
R = 0.9998
DL = 0.001
BEC = 0.002864

Weight: <None>
Min Conc: 0

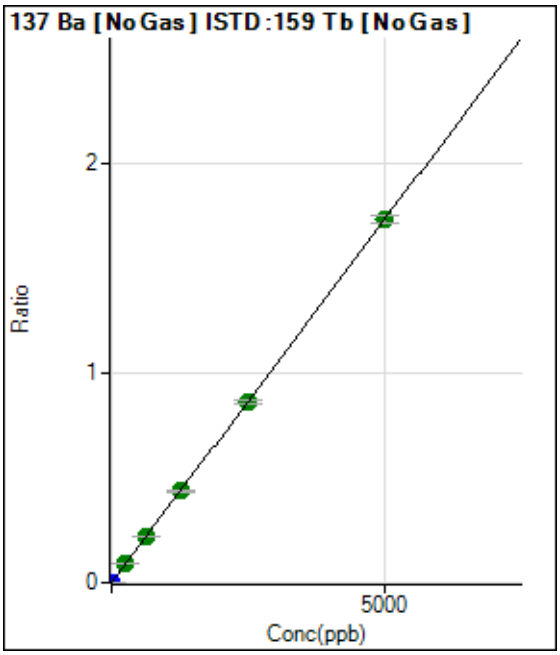


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0000	P	35.9
2	☐	10.000	10.701	41501.17	0.0021	P	3.1
3	☐	250.000	244.126	943557.44	0.0486	P	0.6
4	☐	625.000	639.104	2509160.40	0.1273	A	1.7
5	☐	1250.000	1282.208	4985735.62	0.2555	A	1.8
6	☐	2500.000	2485.365	9592317.57	0.4952	A	1.3
7	☐	5000.000	4997.795	19107089.44	0.9958	A	1.4
8	☐			6960.76	0.0004	P	4.5

y = 1.9925E-004 * x + 3.4069E-006
R = 1.0000
DL = 0.01839
BEC = 0.0171

Weight: <None>
Min Conc: 0

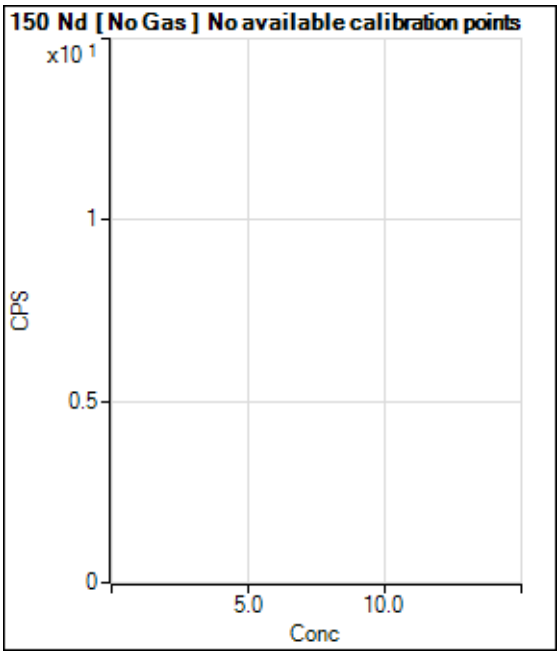
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0000	P	10.7
2	☐	10.000	10.673	71882.90	0.0037	P	2.0
3	☐	250.000	252.966	1697894.49	0.0875	A	0.4
4	☐	625.000	627.669	4279676.67	0.2172	A	0.9
5	☐	1250.000	1265.989	8548903.00	0.4381	A	1.7
6	☐	2500.000	2494.153	16716867.80	0.8630	A	1.5
7	☐	5000.000	4998.443	33183120.62	1.7296	A	2.2
8	☐			12433.60	0.0007	P	3.1

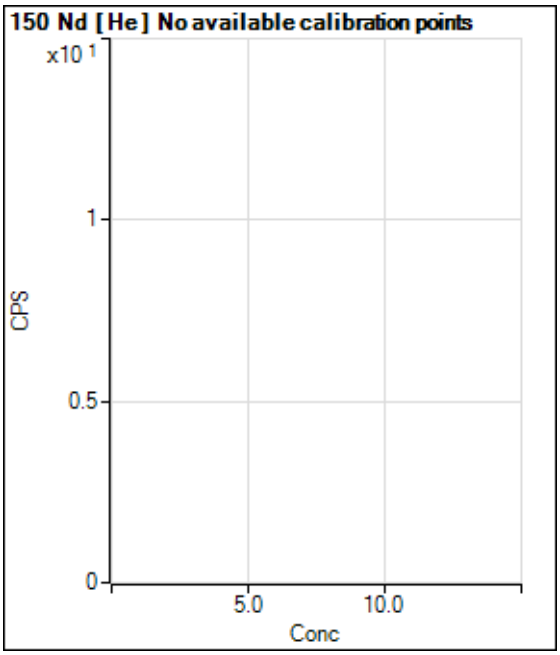
y = 3.4602E-004 * x + 5.5522E-006
R = 1.0000
DL = 0.005128
BEC = 0.01605

Weight: <None>
Min Conc: 0

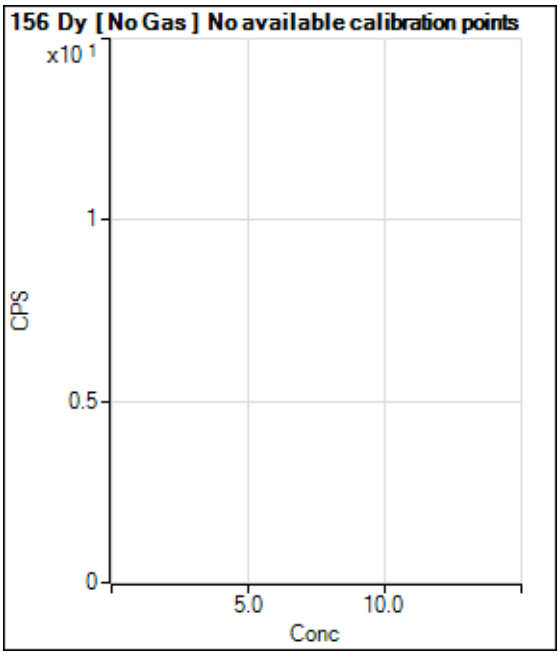


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			11.11		P	17.3
2	☐			11.11		P	45.8
3	☐			64.45		P	26.0
4	☐			177.78		P	8.5
5	☐			295.56		P	6.8
6	☐			547.80		P	0.7
7	☐			1197.84		P	9.4
8	☐			321.12		P	8.1

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			5.56		P	34.7
4	☐			13.33		P	25.0
5	☐			5.56		P	34.7
6	☐			22.22		P	22.9
7	☐			43.33		P	NaN
8	☐			74.44		P	2.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			17.78		P	10.8
2	☐			13.33		P	90.2
3	☐			24.44		P	56.8
4	☐			46.67		P	18.9
5	☐			102.22		P	11.5
6	☐			198.89		P	4.8
7	☐			328.90		P	12.1
8	☐			590.02		P	16.4

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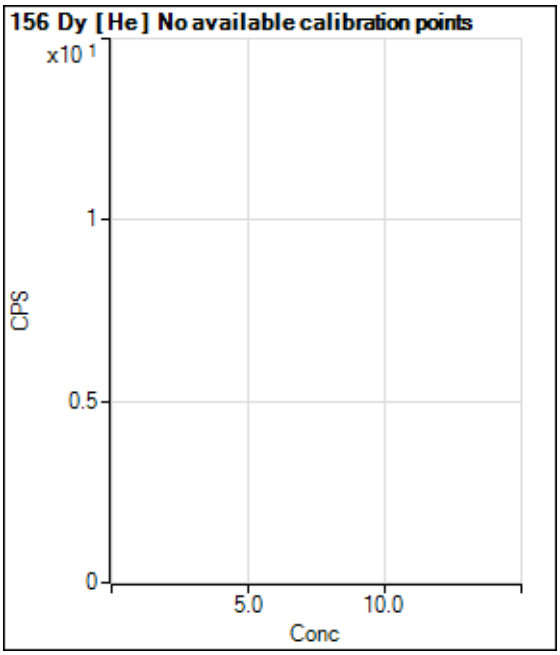
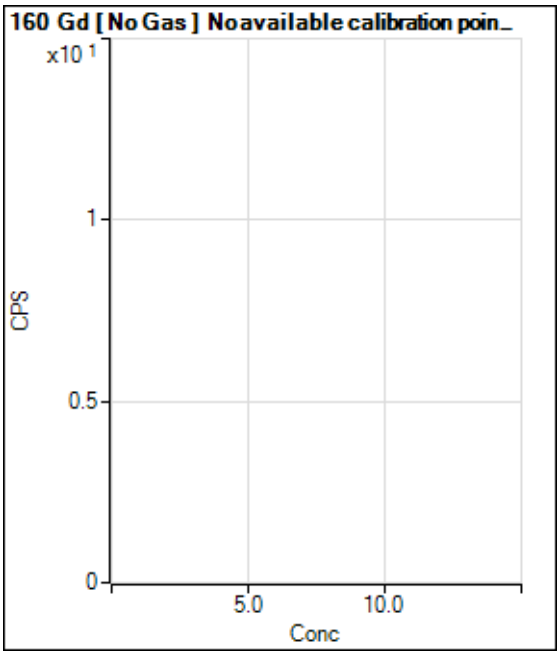
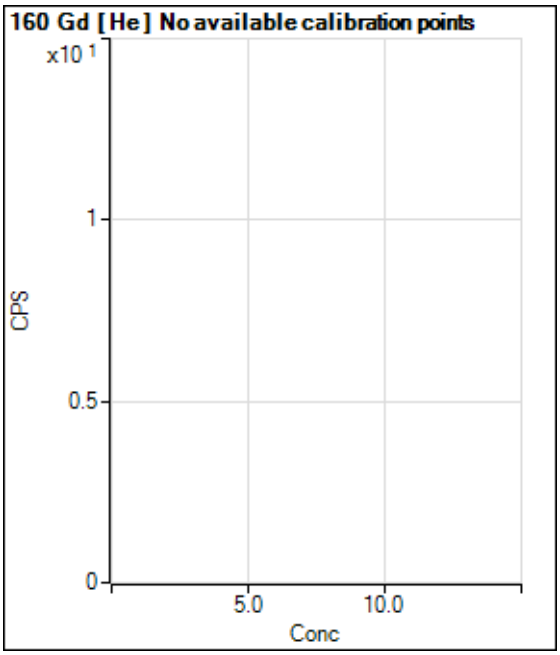


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	0.0
2	☐			7.78		P	89.2
3	☐			2.22		P	173.
4	☐			13.34		P	43.3
5	☐			15.56		P	53.9
6	☐			30.00		P	29.4
7	☐			58.89		P	23.6
8	☐			214.45		P	6.5

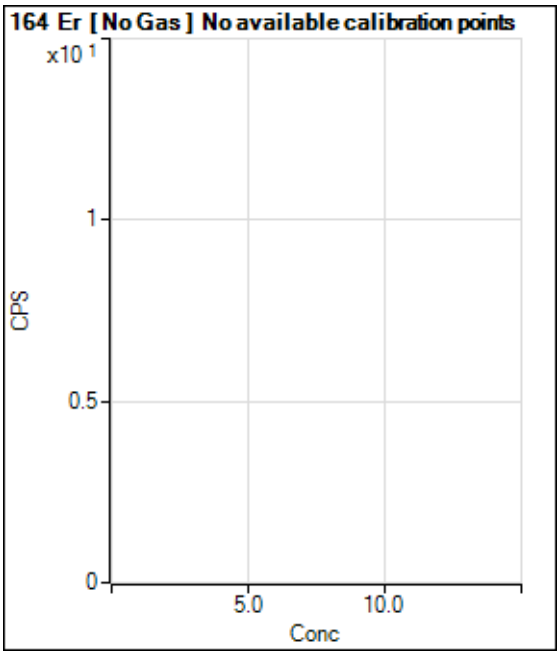


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			133.34		P	6.6
2	☐			113.33		P	19.3
3	☐			116.67		P	8.6
4	☐			124.45		P	16.1
5	☐			168.89		P	7.5
6	☐			188.89		P	13.2
7	☐			241.12		P	7.1
8	☐			656.69		P	3.5

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			23.33		P	42.9
2	☐			25.56		P	32.8
3	☐			41.11		P	12.4
4	☐			42.22		P	44.9
5	☐			36.67		P	55.3
6	☐			64.44		P	25.5
7	☐			77.78		P	24.4
8	☐			286.67		P	12.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			104.45		P	32.0
2	☐			93.34		P	12.9
3	☐			114.45		P	11.8
4	☐			123.34		P	21.1
5	☐			145.56		P	10.3
6	☐			194.45		P	9.4
7	☐			253.34		P	11.7
8	☐			740.03		P	0.4

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On:2/17/2025 12:45:24 PM
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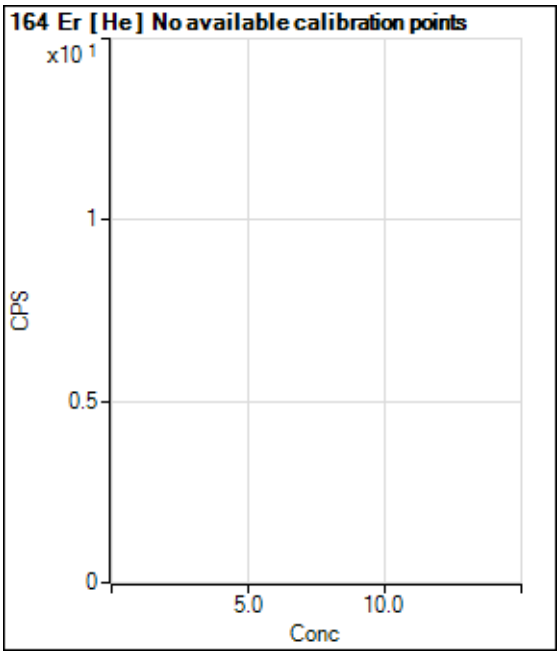
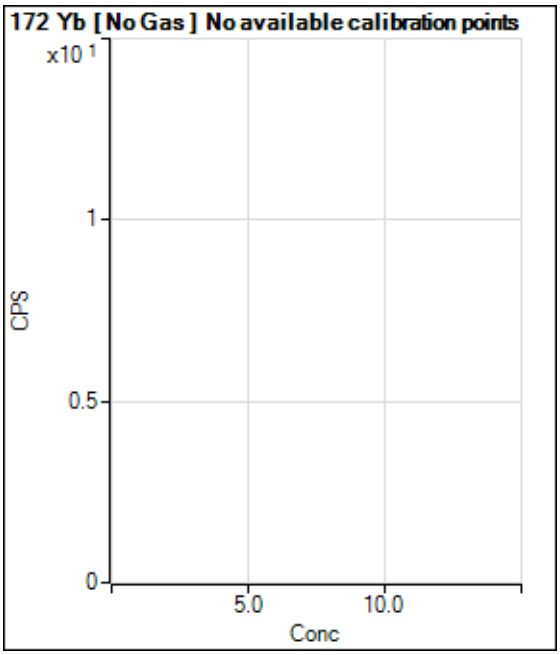
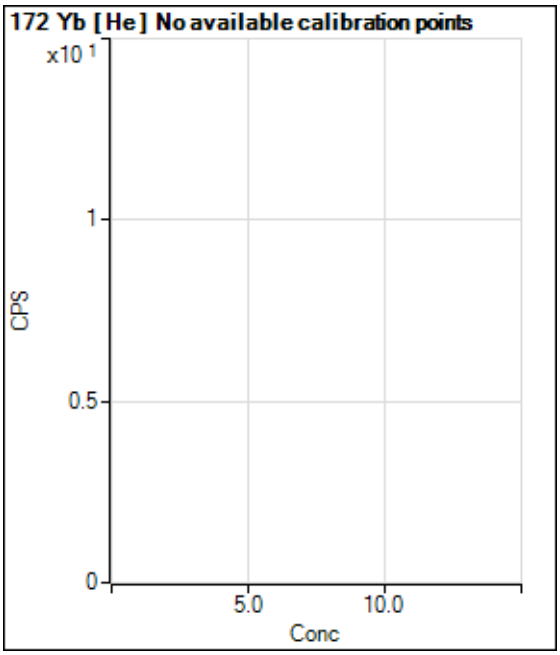


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			30.00		P	44.4
2	☐			24.44		P	20.8
3	☐			33.33		P	17.3
4	☐			44.45		P	8.7
5	☐			58.89		P	11.8
6	☐			54.44		P	31.4
7	☐			82.22		P	26.4
8	☐			261.12		P	4.8

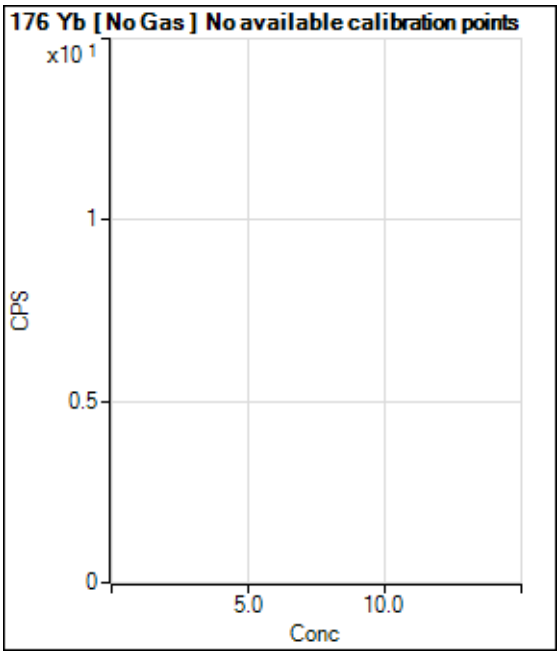


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			98.89		P	36.0
2	☐			93.34		P	12.4
3	☐			115.56		P	26.2
4	☐			120.00		P	16.9
5	☐			168.89		P	17.2
6	☐			194.45		P	29.6
7	☐			260.01		P	20.6
8	☐			882.26		P	3.3

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			46.66		P	44.6
2	☐			40.00		P	22.0
3	☐			48.89		P	10.4
4	☐			64.44		P	42.1
5	☐			56.67		P	23.5
6	☐			81.11		P	12.6
7	☐			100.00		P	23.1
8	☐			374.45		P	8.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2030.18		P	7.9
2	☐			1947.94		P	1.7
3	☐			5612.35		P	0.8
4	☐			10736.69		P	1.7
5	☐			20343.54		P	1.0
6	☐			38094.81		P	0.5
7	☐			74668.41		P	0.8
8	☐			2258.00		P	2.7

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On:2/17/2025 12:45:24 PM
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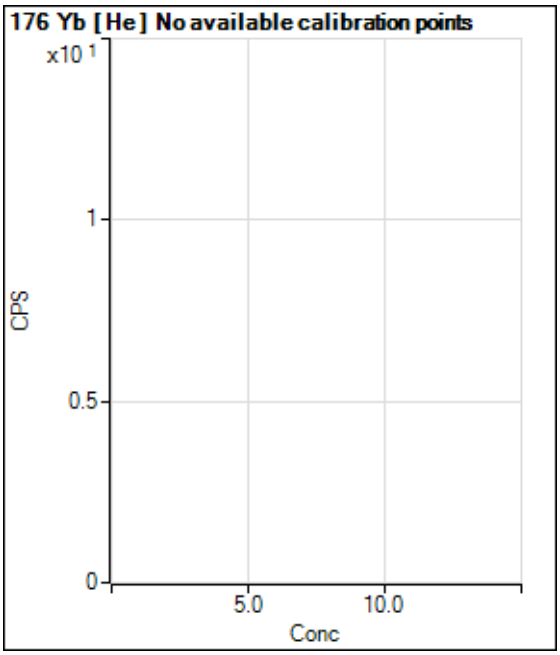
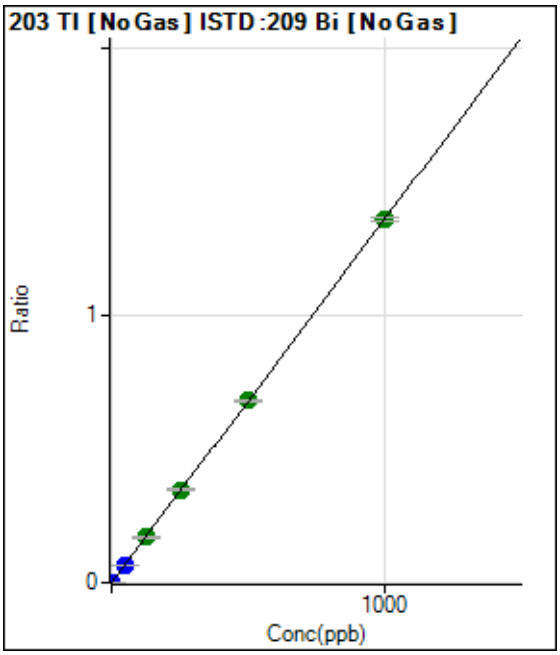


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			456.68		P	9.1
2	☐			427.79		P	6.6
3	☐			1837.92		P	4.4
4	☐			3927.29		P	0.9
5	☐			7547.79		P	2.5
6	☐			14558.12		P	0.9
7	☐			28305.94		P	1.6
8	☐			582.24		P	7.1

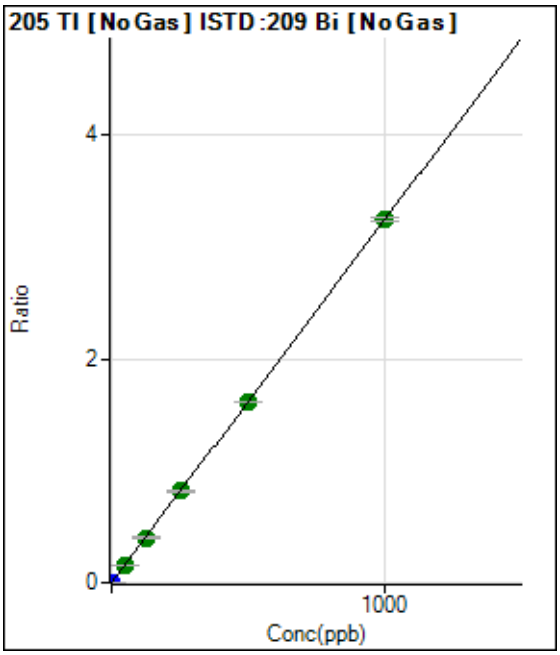


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.12	0.0000	P	11.8
2	☐	1.000	1.012	16636.27	0.0014	P	1.4
3	☐	50.000	47.310	770408.67	0.0643	P	0.8
4	☐	125.000	124.819	2011165.61	0.1695	A	1.2
5	☐	250.000	254.907	4105537.86	0.3462	A	1.5
6	☐	500.000	500.647	7822424.54	0.6799	A	0.7
7	☐	1000.000	998.607	15468166.85	1.3560	A	1.2
8	☐			1546.78	0.0002	P	13.8

y = 0.0014 * x + 1.8642E-005
R = 1.0000
DL = 0.00486
BEC = 0.01373

Weight: <None>
Min Conc: 0

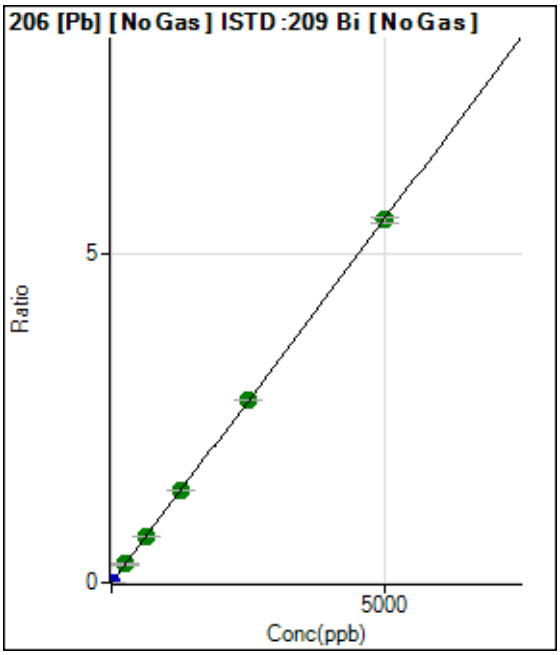
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	496.68	0.0000	P	5.5
2	☐	1.000	1.042	40767.14	0.0034	P	1.0
3	☐	50.000	49.929	1938746.50	0.1617	A	1.0
4	☐	125.000	124.465	4781900.24	0.4030	A	1.1
5	☐	250.000	253.563	9737737.63	0.8211	A	1.7
6	☐	500.000	497.490	18533900.84	1.6109	A	0.5
7	☐	1000.000	1000.435	36951162.51	3.2394	A	1.0
8	☐			3778.43	0.0004	P	15.6

y = 0.0032 * x + 4.0133E-005
R = 1.0000
DL = 0.00205
BEC = 0.01239

Weight: <None>
Min Conc: 0

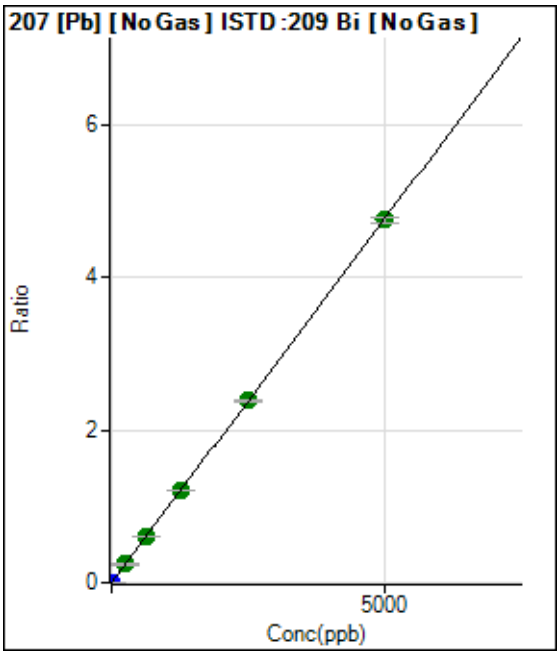


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1345.64	0.0001	P	4.3
2	☐	1.000	1.031	14935.39	0.0013	P	1.6
3	☐	250.000	251.372	3341626.24	0.2787	A	1.9
4	☐	625.000	625.642	8227418.91	0.6935	A	1.2
5	☐	1250.000	1273.710	16742879.75	1.4117	A	1.3
6	☐	2500.000	2508.984	31992105.36	2.7806	A	0.7
7	☐	5000.000	4989.432	63072056.28	5.5295	A	1.7
8	☐			15003.29	0.0015	P	2.4

y = 0.0011 * x + 1.0879E-004
R = 1.0000
DL = 0.0128
BEC = 0.09817

Weight: <None>
Min Conc: 0

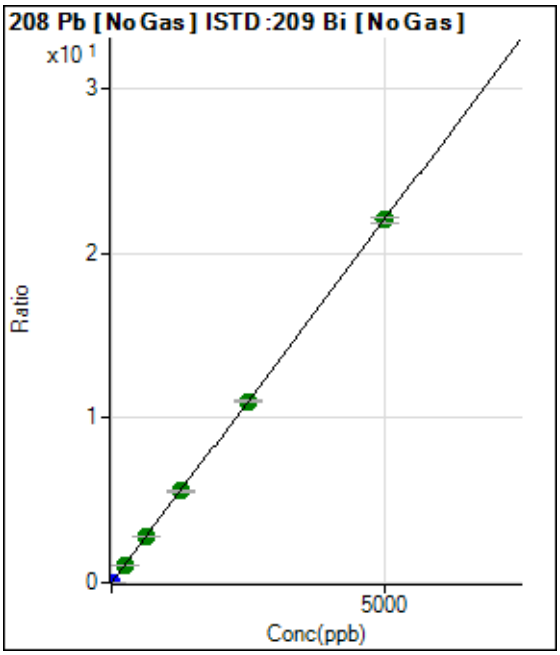
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1125.62	0.0001	P	3.0
2	☐	1.000	1.037	12896.51	0.0011	P	0.5
3	☐	250.000	251.470	2877703.19	0.2400	A	1.7
4	☐	625.000	629.841	7131591.21	0.6011	A	0.6
5	☐	1250.000	1267.582	14347356.18	1.2096	A	1.0
6	☐	2500.000	2511.731	27576696.26	2.3968	A	1.1
7	☐	5000.000	4989.060	54303627.52	4.7607	A	1.5
8	☐			12849.85	0.0013	P	2.4

y = 9.5421E-004 * x + 9.0983E-005
R = 1.0000
DL = 0.008663
BEC = 0.09535

Weight: <None>
Min Conc: 0

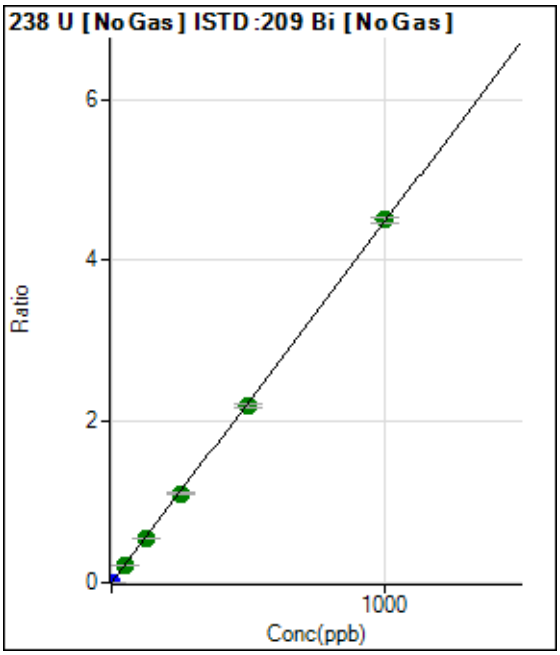


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5126.00	0.0004	P	1.7
2	☐	1.000	1.024	58879.12	0.0049	P	0.3
3	☐	250.000	249.386	13196943.35	1.1008	A	0.9
4	☐	625.000	625.454	32747204.30	2.7601	A	0.4
5	☐	1250.000	1266.237	66269760.96	5.5875	A	1.4
6	☐	2500.000	2497.012	126767311.1	11.0181	A	0.9
7	☐	5000.000	4997.409	251524314.0	22.0507	A	1.4
8	☐			59100.96	0.0061	P	1.6

y = 0.0044 * x + 4.1445E-004
R = 1.0000
DL = 0.004706
BEC = 0.09393

Weight: <None>
Min Conc: 0

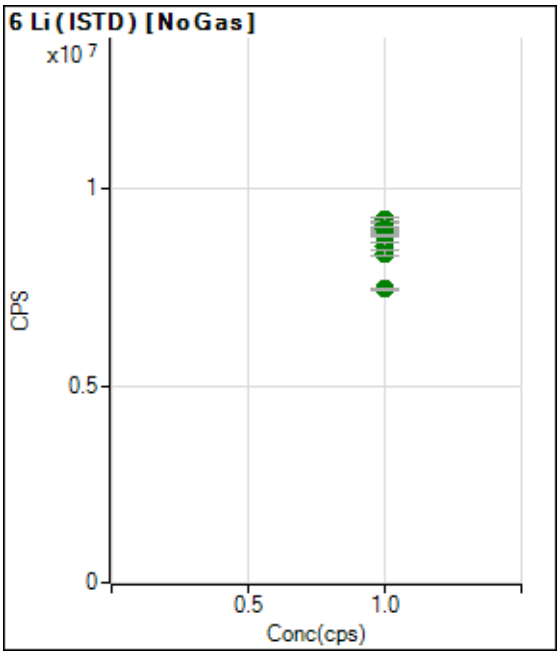
Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	21.7
2	☐	1.000	0.966	51769.40	0.0043	P	0.6
3	☐	50.000	47.879	2571501.92	0.2145	A	2.3
4	☐	125.000	121.552	6461255.11	0.5446	A	1.2
5	☐	250.000	247.351	13143452.58	1.1082	A	1.5
6	☐	500.000	491.403	25328530.73	2.2016	A	2.7
7	☐	1000.000	1005.498	51387101.46	4.5049	A	1.4
8	☐			2998.25	0.0003	P	18.3

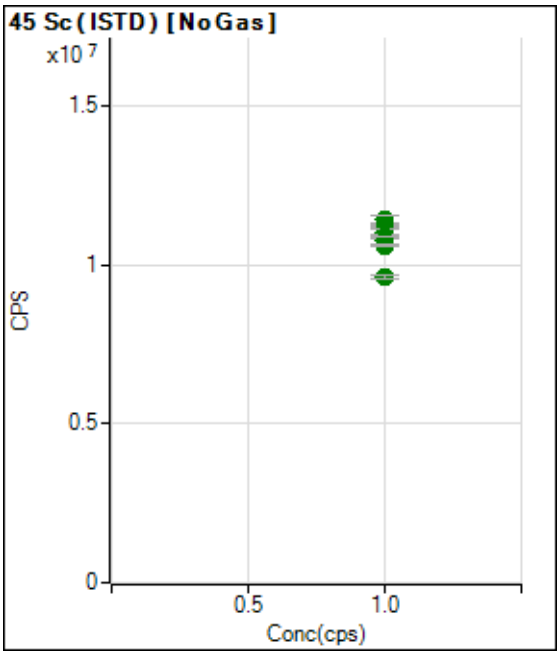
y = 0.0045 * x + 8.6527E-006
R = 0.9999
DL = 0.001256
BEC = 0.001931

Weight: <None>
Min Conc: 0

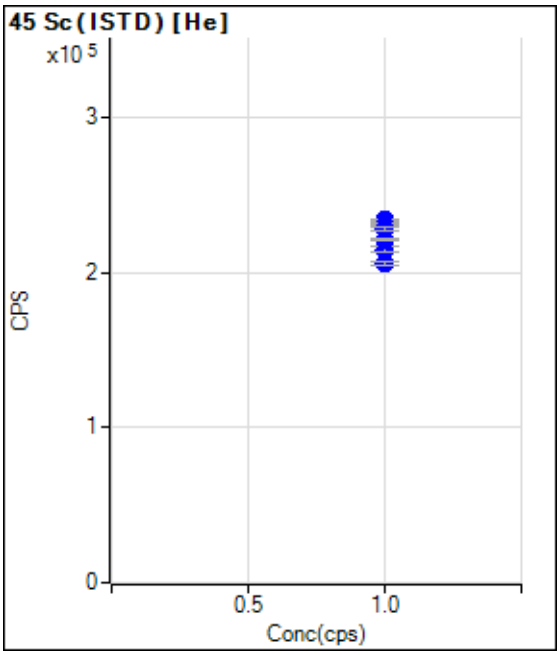


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9059528.82		A	1.4
2	☐	1.000		9205242.38		A	0.9
3	☐	1.000		8973925.67		A	0.7
4	☐	1.000		8962799.98		A	1.6
5	☐	1.000		8798351.58		A	0.9
6	☐	1.000		8537525.63		A	1.9
7	☐	1.000		8366531.80		A	1.3
8	☐	1.000		7450189.26		A	0.4

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

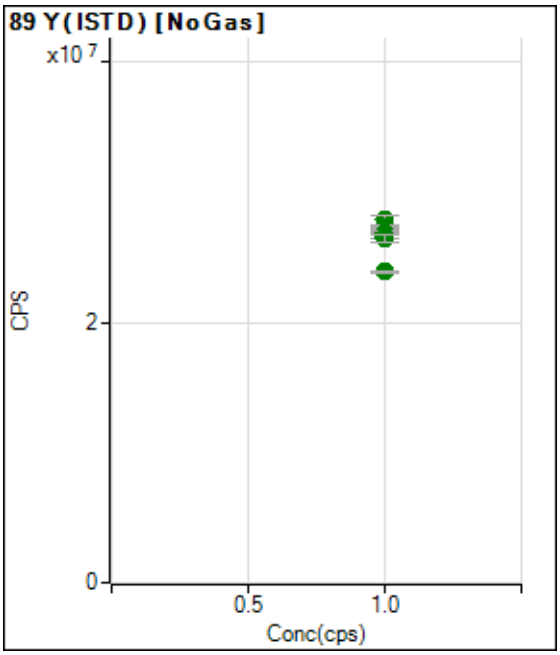


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11422453.30		A	2.2
2	☐	1.000		11246345.80		A	0.7
3	☐	1.000		11137179.14		A	0.3
4	☐	1.000		11028798.45		A	2.2
5	☐	1.000		10890753.17		A	0.9
6	☐	1.000		10764805.81		A	2.4
7	☐	1.000		10610564.28		A	0.4
8	☐	1.000		9630328.54		A	0.9

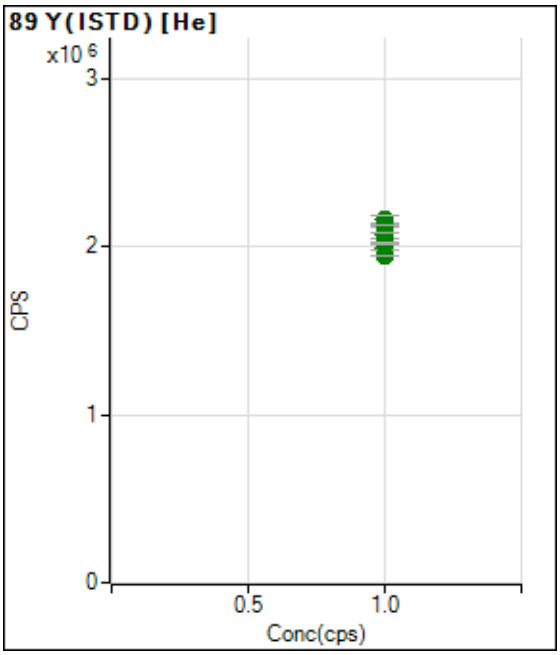


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		234117.65		P	0.8
2	☐	1.000		233687.50		P	0.4
3	☐	1.000		231331.89		P	1.5
4	☐	1.000		230889.13		P	0.6
5	☐	1.000		228563.17		P	0.8
6	☐	1.000		215132.96		P	1.4
7	☐	1.000		221258.57		P	0.5
8	☐	1.000		205683.33		P	1.0

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

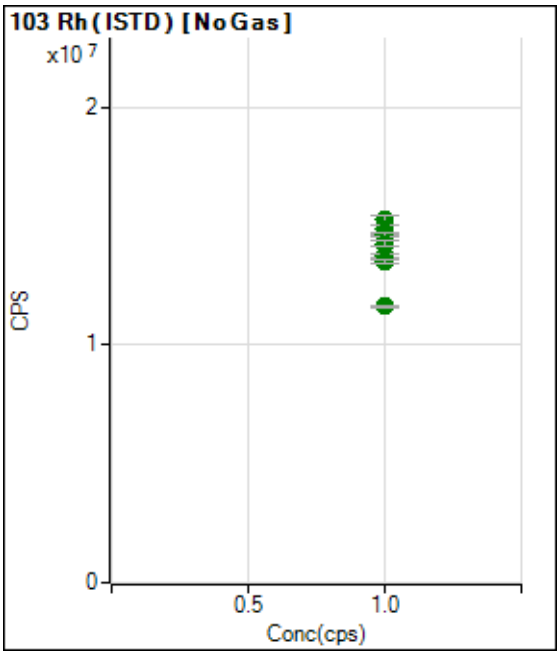


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		27877719.58		A	2.4
2		1.000		27345740.98		A	1.1
3		1.000		27011582.10		A	1.0
4		1.000		27409621.54		A	0.9
5		1.000		26912505.43		A	0.9
6		1.000		26648388.22		A	1.0
7		1.000		26440432.66		A	1.8
8		1.000		23880634.09		A	0.7

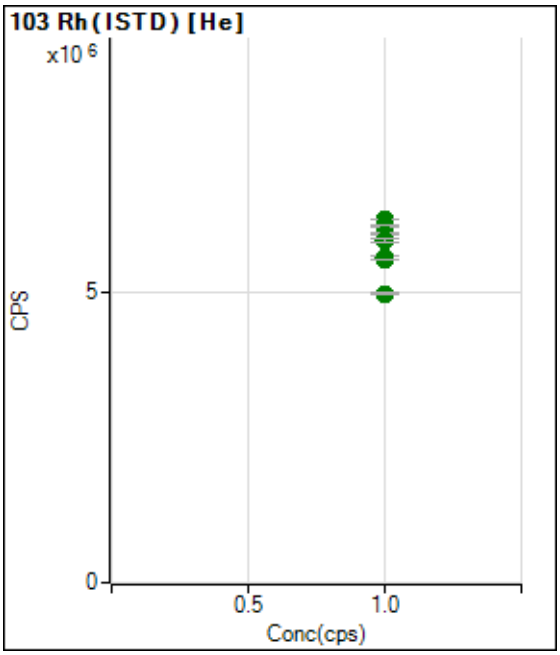


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		2161282.02		A	2.1
2		1.000		2128321.86		A	0.3
3		1.000		2126151.27		A	0.8
4		1.000		2126856.65		A	0.1
5		1.000		2072050.42		A	1.6
6		1.000		1995577.23		A	1.6
7		1.000		2024856.64		A	0.8
8		1.000		1951034.92		A	0.2

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

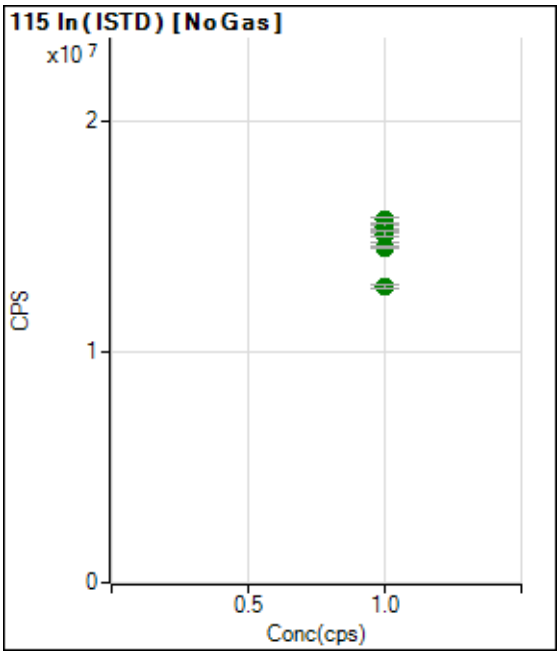


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15250511.02		A	2.9
2	☐	1.000		14872047.56		A	1.7
3	☐	1.000		14690517.42		A	0.5
4	☐	1.000		14643182.84		A	1.3
5	☐	1.000		14264099.09		A	1.4
6	☐	1.000		13769265.07		A	1.0
7	☐	1.000		13485853.27		A	1.0
8	☐	1.000		11623148.58		A	0.6

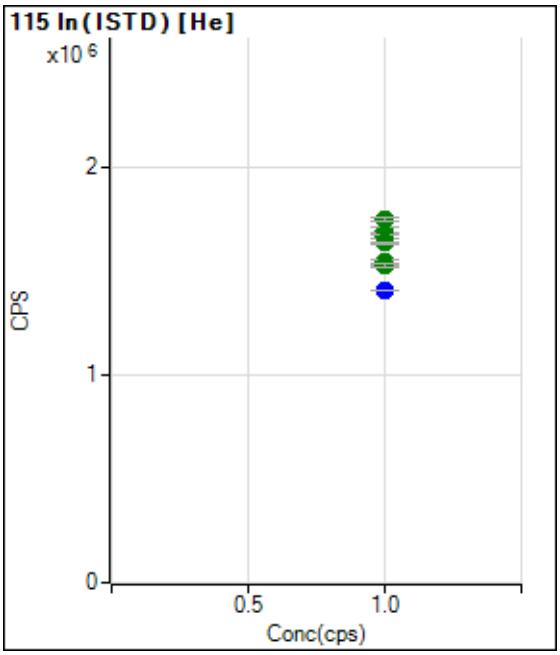


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6231494.49		A	0.1
2	☐	1.000		6129774.01		A	0.3
3	☐	1.000		6120655.12		A	0.3
4	☐	1.000		5985959.29		A	0.5
5	☐	1.000		5877366.10		A	0.7
6	☐	1.000		5583674.78		A	1.1
7	☐	1.000		5559929.22		A	0.1
8	☐	1.000		4965394.06		A	0.8

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15753912.33		A	1.8
2	☐	1.000		15437188.50		A	1.4
3	☐	1.000		15272069.31		A	0.4
4	☐	1.000		15407629.29		A	2.4
5	☐	1.000		15129807.85		A	1.8
6	☐	1.000		14648243.61		A	1.5
7	☐	1.000		14557086.84		A	0.2
8	☐	1.000		12851021.98		A	1.2



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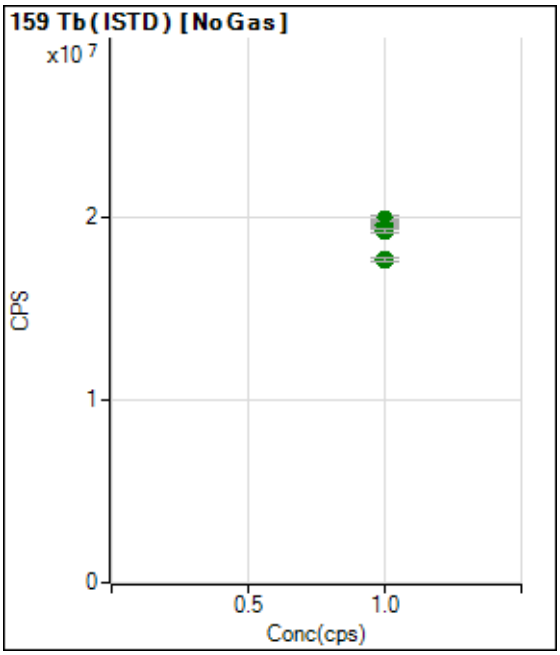
1	☐	1.000		1743791.67		A	1.0
2	☐	1.000		1693855.78		A	1.5
3	☐	1.000		1676281.43		A	0.9
4	☐	1.000		1662056.01		A	1.1
5	☐	1.000		1634345.82		A	0.6
6	☐	1.000		1540383.68		A	2.1
7	☐	1.000		1523998.87		A	1.2
8	☐	1.000		1404112.15		P	0.2

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



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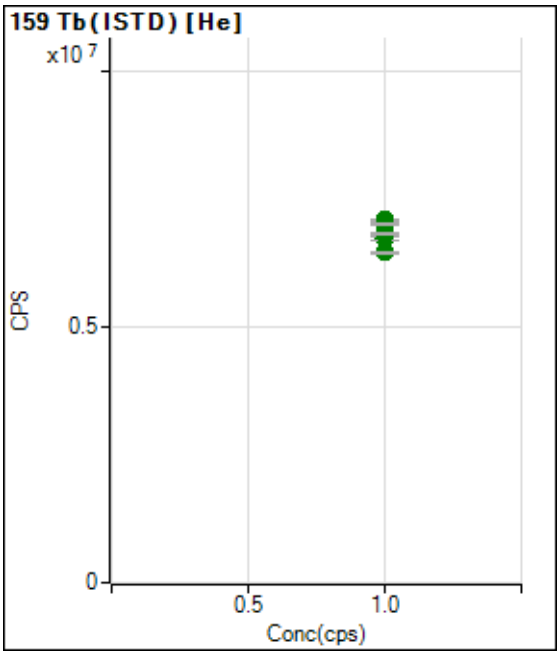
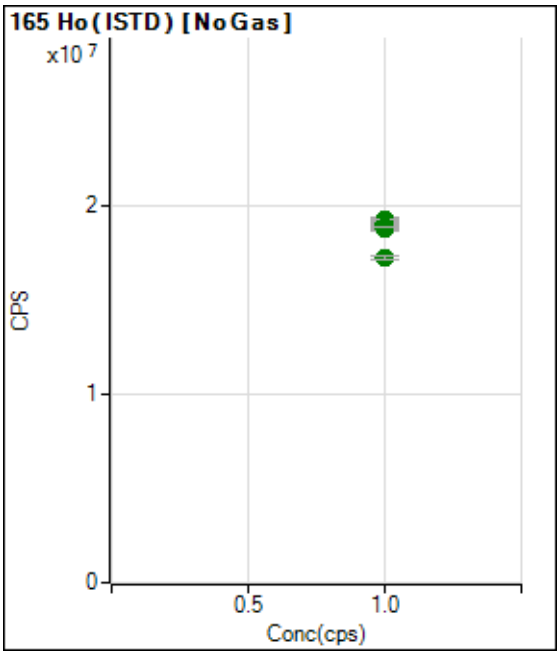
1	☐	1.000		19810880.40		A	2.6
2	☐	1.000		19438155.41		A	1.2
3	☐	1.000		19396632.21		A	0.4
4	☐	1.000		19704896.09		A	0.9
5	☐	1.000		19520114.29		A	2.1
6	☐	1.000		19371216.38		A	0.6
7	☐	1.000		19188779.72		A	1.2
8	☐	1.000		17641355.02		A	0.8

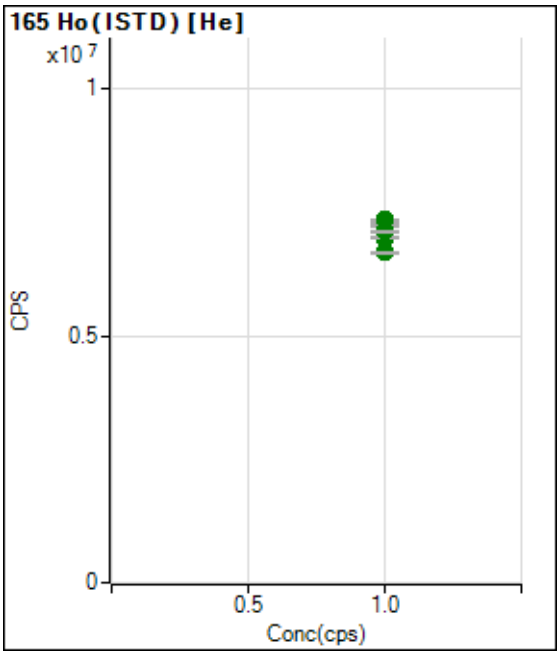


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7081215.03		A	0.7
2	☐	1.000		7036621.49		A	1.3
3	☐	1.000		7094007.11		A	0.8
4	☐	1.000		7068982.39		A	0.1
5	☐	1.000		6999528.37		A	0.5
6	☐	1.000		6728111.29		A	1.3
7	☐	1.000		6824530.66		A	0.8
8	☐	1.000		6455927.89		A	0.6

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19166883.19		A	1.9
2	☐	1.000		18869168.89		A	1.4
3	☐	1.000		18973812.77		A	1.3
4	☐	1.000		19230723.88		A	0.4
5	☐	1.000		19072554.86		A	2.1
6	☐	1.000		18774583.61		A	1.3
7	☐	1.000		18839581.25		A	0.3
8	☐	1.000		17218425.30		A	0.9



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7348301.42		A	0.6
2	☐	1.000		7256639.13		A	0.9
3	☐	1.000		7212824.55		A	0.4
4	☐	1.000		7304751.63		A	0.9
5	☐	1.000		7227860.52		A	0.8
6	☐	1.000		6978573.65		A	0.7
7	☐	1.000		7111347.67		A	0.7
8	☐	1.000		6690108.79		A	0.5

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
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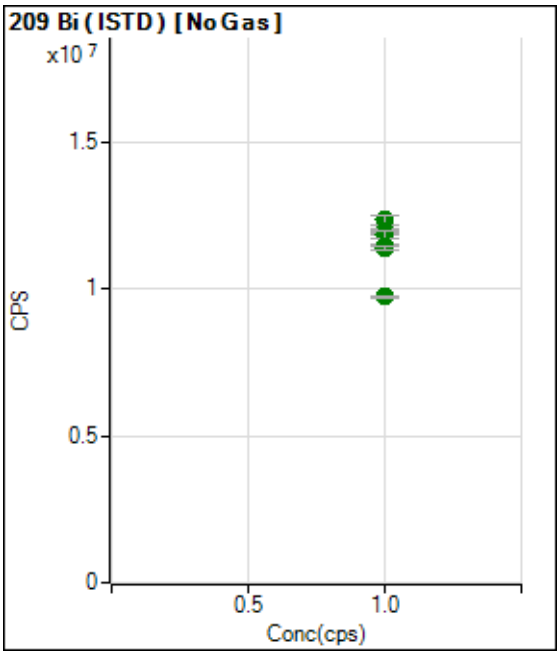
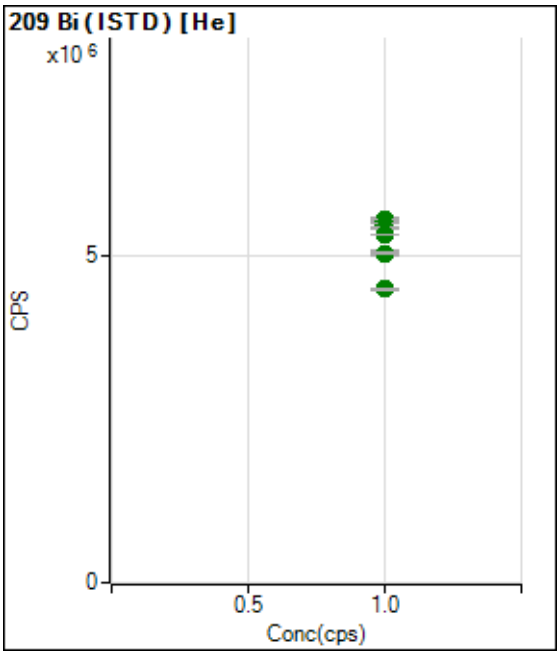


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12371269.26		A	2.7
2	☐	1.000		11939242.04		A	0.3
3	☐	1.000		11989498.16		A	1.4
4	☐	1.000		11864360.52		A	0.1
5	☐	1.000		11862431.91		A	2.0
6	☐	1.000		11505755.80		A	0.7
7	☐	1.000		11407413.72		A	0.7
8	☐	1.000		9749757.35		A	0.7



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5535397.97		A	1.1
2	☐	1.000		5511954.43		A	0.8
3	☐	1.000		5453267.00		A	1.1
4	☐	1.000		5408916.45		A	0.8
5	☐	1.000		5309387.04		A	0.4
6	☐	1.000		5029689.06		A	1.5
7	☐	1.000		5030385.48		A	0.4
8	☐	1.000		4483946.43		A	0.8

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8020625MS.b
Acq. Date-Time	2025-02-06 11:25:46
Report Comment	---
Instrument Name	G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		34446	344463.40			1.541	5.000
24		329372	3293722.22			1.582	5.000
25		44166	441660.86			1.232	5.000
26		50696	506958.33			1.541	5.000
59		189032	1890321.81			1.621	5.000
113		20040	200397.47			1.392	5.000
115		264609	2646091.49			1.679	5.000
206		59696	596964.50			0.762	5.000
207		51823	518233.47			0.791	5.000
208		129800	1298001.86			1.057	5.000
220		1	5.80			7.711	

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

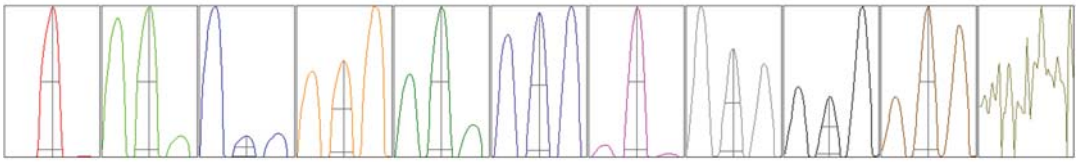
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	35218	34731	34316	33932	34034
24	336234	333683	325165	325178	326601
25	44842	44675	43752	43771	43791
26	51733	51320	50333	50053	50040
59	191821	192378	187892	188083	184987
113	20449	20196	19941	19828	19785
115	270665	268075	261231	261559	261516
206	60320	60016	59432	59223	59491
207	52287	52248	51591	51435	51556
208	131470	130869	128040	129195	129427

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	63938.77	9.05	8.90 - 9.10	
24	577951.13	24.00	23.90 - 24.10	
25	78495.43	25.00	24.90 - 25.10	
26	88999.95	26.00	25.90 - 26.10	
59	358767.91	59.00	58.90 - 59.10	
113	41293.54	113.05	112.90 - 113.10	
115	544936.58	115.05	114.90 - 115.10	
206	123634.18	206.00	205.90 - 206.10	
207	107028.64	206.95	206.90 - 207.10	
208	266325.64	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.773	0.900	
24	0.61	0.740	0.900	
25	0.61	0.737	0.900	
26	0.61	0.740	0.900	
59	0.55	0.768	0.900	
113	0.50	0.722	0.900	
115	0.50	0.722	0.900	
206	0.48	0.739	0.900	
207	0.49	0.770	0.900	
208	0.49	0.768	0.900	
220				

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

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.72 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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	-6.0 V	Omega Lens	8.6 V	Deflect	14.2 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9961	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.1 mV	Analog HV	2176 V	Pulse HV	1085 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		36659	366593.10			0.418	
89		36943	369433.04			0.588	
205		37881	378808.54			0.361	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	36846	36779	36652	36526	36495
89	37115	36880	37045	37086	36591
205	37736	37845	37929	38091	37803

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 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	-6.0 V	Omega Lens	8.6 V	Deflect	3.0 V

US EPA Tune Check Report

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8
ClientSampleId :TUNE001

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60
Omega Bias	-105 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	103	Axis Gain	0.9961	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm

EM

Discriminator	4.1 mV	Analog HV	2176 V	Pulse HV	1085 V

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.07	0.18	-0.25	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	0.01	0.00	-0.01	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
Cadmium	108-1	0.04	0.00	-0.03	0.00	N/A	ppb
Cadmium	106-1	-0.30	0.30	0.00	0.00	N/A	ppb
Cadmium	111-1	-0.03	0.03	0.00	0.00	N/A	ppb
Calcium	43-1	0.56	-0.23	-0.33	0.00	N/A	ppb
Calcium	44-1	-0.20	-0.40	0.59	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.01	0.02	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	-0.02	0.03	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	54-2	-0.33	0.00	0.33	0.00	N/A	ppb
Iron	56-2	-0.15	0.02	0.13	0.00	N/A	ppb
Iron	57-2	0.15	-0.33	0.18	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
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	-0.42	-0.01	0.43	0.00	N/A	ppb
Manganese	55-2	0.00	0.00	0.00	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	0.01	-0.02	0.00	N/A	ppb
Phosphorus	31-2	-14.77	-25.39	-14.47	-18.21		ppb
Potassium	39-2	-0.87	1.20	-0.34	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.02	0.00	-0.02	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.42	0.81	-0.39	0.00	N/A	ppb
Silicon	28-1	-1.04	0.08	0.96	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	-0.05	-0.54	0.59	0.00	N/A	ppb
Strontium	86-1	-0.02	0.00	0.02	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-346.96	-48.82	140.76	-85.01		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	-0.01	-0.01	0.02	0.00	N/A	ppb
Titanium	47-1	0.00	0.00	0.00	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.00	-0.02	0.01	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:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.92	20.28	20.82	20.34	2.22	ppb
Antimony	121-1	2.15	2.25	2.16	2.19	2.58	ppb
Arsenic	75-2	1.02	1.26	1.03	1.10	12.23	ppb
Barium	135-1	10.46	11.08	10.57	10.70	3.07	ppb
Barium	137-1	10.64	10.90	10.48	10.67	1.99	ppb
Beryllium	9-1	1.11	1.11	1.10	1.11	0.60	ppb
Bismuth	209-1				97		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.97	1.12	1.10	1.06	7.84	ppb
Cadmium	106-1	1.22	1.12	0.63	0.99	32.20	ppb
Cadmium	111-1	1.19	1.13	1.13	1.15	3.16	ppb
Calcium	43-1	524.37	513.21	517.00	518.19	1.09	ppb
Calcium	44-1	511.61	504.67	515.21	510.50	1.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.08	2.05	2.16	2.10	2.81	ppb
Cobalt	59-2	1.17	1.16	1.20	1.18	1.92	ppb
Copper	63-2	2.24	2.22	2.26	2.24	0.75	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				98		%
Holmium	165-2				99		%
Indium	115-1				98		%
Indium	115-2				97		%
Iron	54-2	53.84	56.24	55.67	55.25	2.27	ppb
Iron	56-2	53.50	53.59	54.13	53.74	0.63	ppb
Iron	57-2	50.15	51.08	54.55	51.93	4.46	ppb
Krypton	83-1						cps
Lead	206-1	1.03	1.01	1.05	1.03	1.75	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.04	1.04	1.03	1.04	0.58	ppb
Lead	208-1	1.02	1.02	1.03	1.02	0.34	ppb
Lithium	6-1				102		%
Magnesium	24-2	534.01	533.77	534.54	534.11	0.07	ppb
Manganese	55-2	0.98	1.08	1.13	1.06	7.14	ppb
Molybdenum	94-1	6.18	6.14	6.29	6.20	1.26	ppb
Molybdenum	95-1	5.19	5.30	5.20	5.23	1.09	ppb
Molybdenum	96-1	5.21	5.28	5.28	5.25	0.79	ppb
Molybdenum	97-1	5.17	5.43	5.34	5.32	2.44	ppb
Molybdenum	98-1	5.07	5.25	5.25	5.19	2.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	1.17	1.09	1.10	6.27	ppb
Phosphorus	31-2	14.81	12.28	27.54	18.21	44.90	ppb
Potassium	39-2	503.84	510.63	511.85	508.77	0.85	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				100		%
Selenium	82-1	5.30	5.24	5.25	5.27	0.64	ppb
Selenium	77-2	2.10	5.62	5.63	4.45	45.73	ppb
Selenium	78-2	4.49	5.12	2.88	4.16	27.73	ppb
Silicon	28-1	7.89	7.44	8.04	7.79	4.02	ppb
Silver	107-1	1.05	1.09	1.04	1.06	2.35	ppb
Silver	109-1	1.07	1.09	1.04	1.07	2.17	ppb
Sodium	23-2	520.10	523.33	519.84	521.09	0.37	ppb
Strontium	86-1	1.07	1.10	1.03	1.07	3.45	ppb
Strontium	88-1	1.05	1.07	1.07	1.06	1.14	ppb
Sulfur	34-1	132.96	-20.61	142.66	85.01	107.75	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	1.00	1.01	1.03	1.01	1.45	ppb
Thallium	205-1	1.04	1.05	1.03	1.04	1.06	ppb
Tin	118-1	5.45	5.62	5.32	5.46	2.82	ppb
Titanium	47-1	5.26	5.25	5.42	5.31	1.77	ppb
Uranium	238-1	0.97	0.96	0.96	0.97	0.63	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.13	5.20	5.42	5.25	2.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	5.50	5.00	5.60	5.37	5.94	ppb
Zirconium	90-1	1.03	1.05	1.02	1.04	1.59	ppb
Zirconium	91-1	1.00	1.04	1.02	1.02	2.03	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	973.98	934.28	966.47	958.24	2.20	ppb
Antimony	121-1	49.56	50.53	50.23	50.11	0.99	ppb
Arsenic	75-2	48.54	50.39	49.02	49.32	1.94	ppb
Barium	135-1	242.36	244.79	245.22	244.13	0.63	ppb
Barium	137-1	254.09	252.56	252.26	252.97	0.39	ppb
Beryllium	9-1	50.74	49.87	51.11	50.57	1.25	ppb
Bismuth	209-1				97		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	52.09	51.97	51.87	51.97	0.21	ppb
Cadmium	106-1	51.54	53.28	52.49	52.44	1.66	ppb
Cadmium	111-1	50.09	51.10	50.28	50.49	1.07	ppb
Calcium	43-1	4727.55	4800.98	4831.98	4786.84	1.12	ppb
Calcium	44-1	4722.99	4765.39	4770.10	4752.83	0.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.23	48.16	48.62	48.67	1.10	ppb
Cobalt	59-2	50.96	49.31	49.96	50.08	1.66	ppb
Copper	63-2	535.67	514.15	520.84	523.55	2.10	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				98		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	2531.98	2438.72	2462.91	2477.87	1.95	ppb
Iron	56-2	2544.36	2459.29	2483.55	2495.73	1.76	ppb
Iron	57-2	2503.71	2422.56	2434.46	2453.58	1.79	ppb
Krypton	83-1						cps
Lead	206-1	251.23	256.24	246.65	251.37	1.91	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	256.33	249.39	248.69	251.47	1.68	ppb
Lead	208-1	251.70	247.41	249.05	249.39	0.87	ppb
Lithium	6-1				99		%
Magnesium	24-2	5118.39	4992.29	4993.89	5034.85	1.44	ppb
Manganese	55-2	502.54	484.89	488.35	491.92	1.90	ppb
Molybdenum	94-1	501.48	499.54	521.59	507.54	2.41	ppb
Molybdenum	95-1	498.16	498.26	514.75	503.72	1.90	ppb
Molybdenum	96-1	503.98	501.20	504.32	503.17	0.34	ppb
Molybdenum	97-1	507.32	503.71	513.11	508.04	0.93	ppb
Molybdenum	98-1	503.51	495.15	512.85	503.84	1.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.93	51.67	52.83	52.81	2.14	ppb
Phosphorus	31-2	991.63	949.43	1089.59	1010.22	7.12	ppb
Potassium	39-2	2385.33	2352.35	2371.14	2369.61	0.70	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	49.71	51.10	52.26	51.02	2.50	ppb
Selenium	77-2	51.55	49.43	55.76	52.25	6.17	ppb
Selenium	78-2	45.54	49.86	47.80	47.73	4.53	ppb
Silicon	28-1	52.62	51.79	52.97	52.46	1.16	ppb
Silver	107-1	50.12	50.92	51.04	50.69	0.98	ppb
Silver	109-1	50.75	51.66	51.91	51.44	1.19	ppb
Sodium	23-2	5030.80	4845.05	4980.09	4951.98	1.94	ppb
Strontium	86-1	48.21	48.46	49.57	48.75	1.49	ppb
Strontium	88-1	50.04	49.82	51.76	50.54	2.10	ppb
Sulfur	34-1	1206.08	1232.25	1458.80	1299.05	10.70	ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	47.53	46.85	47.55	47.31	0.85	ppb
Thallium	205-1	50.36	50.05	49.38	49.93	1.00	ppb
Tin	118-1	49.51	50.02	50.08	49.87	0.63	ppb
Titanium	47-1	496.40	491.35	507.09	498.28	1.61	ppb
Uranium	238-1	48.62	46.64	48.38	47.88	2.26	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	48.86	47.12	48.01	48.00	1.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	528.57	513.74	513.10	518.47	1.69	ppb
Zirconium	90-1	50.21	49.53	50.97	50.23	1.43	ppb
Zirconium	91-1	47.56	48.02	48.73	48.10	1.23	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2409.43	2398.23	2399.67	2402.44	0.25	ppb
Antimony	121-1	129.23	132.80	129.48	130.50	1.53	ppb
Arsenic	75-2	124.01	124.50	122.25	123.59	0.96	ppb
Barium	135-1	632.82	651.29	633.20	639.10	1.65	ppb
Barium	137-1	626.60	633.98	622.42	627.67	0.93	ppb
Beryllium	9-1	123.31	127.30	126.09	125.56	1.63	ppb
Bismuth	209-1				96		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	123.93	128.70	130.28	127.64	2.59	ppb
Cadmium	106-1	122.66	127.33	129.17	126.39	2.66	ppb
Cadmium	111-1	122.58	126.11	125.30	124.66	1.49	ppb
Calcium	43-1	11699.08	12146.57	12263.92	12036.52	2.48	ppb
Calcium	44-1	11696.71	11981.16	12174.23	11950.70	2.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	121.67	121.12	121.71	121.50	0.27	ppb
Cobalt	59-2	124.38	124.43	124.11	124.31	0.14	ppb
Copper	63-2	1296.93	1287.42	1282.16	1288.83	0.58	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				99		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	6131.69	6246.15	6170.69	6182.85	0.94	ppb
Iron	56-2	6246.21	6332.27	6289.71	6289.40	0.68	ppb
Iron	57-2	6069.91	6118.08	6135.69	6107.89	0.56	ppb
Krypton	83-1						cps
Lead	206-1	624.65	618.50	633.78	625.64	1.23	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	628.42	627.25	633.85	629.84	0.56	ppb
Lead	208-1	623.74	624.27	628.36	625.45	0.40	ppb
Lithium	6-1				99		%
Magnesium	24-2	12580.02	12695.61	12569.13	12614.92	0.56	ppb
Manganese	55-2	1272.35	1301.35	1268.82	1280.84	1.39	ppb
Molybdenum	94-1	1247.97	1241.65	1256.90	1248.84	0.61	ppb
Molybdenum	95-1	1260.74	1233.78	1238.62	1244.38	1.16	ppb
Molybdenum	96-1	1223.98	1244.72	1259.02	1242.57	1.42	ppb
Molybdenum	97-1	1227.48	1244.93	1280.03	1250.81	2.14	ppb
Molybdenum	98-1	1235.19	1246.17	1260.94	1247.43	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	133.14	133.49	133.15	133.26	0.15	ppb
Phosphorus	31-2	2518.33	2507.28	2575.93	2533.85	1.45	ppb
Potassium	39-2	5942.58	5984.48	6038.20	5988.42	0.80	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				97		%
Scandium	45-2				99		%
Selenium	82-1	124.36	128.52	128.59	127.16	1.91	ppb
Selenium	77-2	120.79	128.05	125.66	124.84	2.96	ppb
Selenium	78-2	120.59	131.23	122.17	124.67	4.61	ppb
Silicon	28-1	129.27	131.86	135.06	132.06	2.20	ppb
Silver	107-1	132.01	131.88	129.57	131.15	1.05	ppb
Silver	109-1	130.07	132.15	131.76	131.32	0.84	ppb
Sodium	23-2	12474.67	12298.95	12343.13	12372.25	0.74	ppb
Strontium	86-1	119.49	120.89	122.78	121.05	1.36	ppb
Strontium	88-1	126.51	124.40	126.01	125.64	0.88	ppb
Sulfur	34-1	2499.44	2735.81	3035.45	2756.90	9.74	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	124.92	123.27	126.26	124.82	1.20	ppb
Thallium	205-1	124.55	123.01	125.83	124.46	1.13	ppb
Tin	118-1	126.27	126.71	127.19	126.72	0.36	ppb
Titanium	47-1	1228.00	1268.84	1258.95	1251.93	1.70	ppb
Uranium	238-1	120.93	123.24	120.48	121.55	1.22	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	120.25	120.86	121.09	120.73	0.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	1301.38	1307.08	1298.10	1302.19	0.35	ppb
Zirconium	90-1	122.82	124.89	128.08	125.27	2.11	ppb
Zirconium	91-1	118.76	119.57	121.73	120.02	1.28	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4792.20	4861.73	4813.75	4822.56	0.74	ppb
Antimony	121-1	271.29	275.14	264.99	270.47	1.89	ppb
Arsenic	75-2	255.72	256.27	250.13	254.04	1.34	ppb
Barium	135-1	1293.44	1297.31	1255.87	1282.21	1.79	ppb
Barium	137-1	1277.26	1279.81	1240.89	1265.99	1.72	ppb
Beryllium	9-1	260.93	259.67	262.15	260.92	0.48	ppb
Bismuth	209-1				96		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	261.60	265.88	254.40	260.63	2.23	ppb
Cadmium	106-1	259.68	263.54	254.64	259.28	1.72	ppb
Cadmium	111-1	252.16	259.18	247.18	252.84	2.38	ppb
Calcium	43-1	25365.68	25171.62	24744.84	25094.05	1.27	ppb
Calcium	44-1	24356.06	24733.18	24002.48	24363.91	1.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	243.31	246.09	244.18	244.52	0.58	ppb
Cobalt	59-2	256.98	258.94	255.72	257.21	0.63	ppb
Copper	63-2	2588.13	2600.60	2562.58	2583.77	0.75	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				98		%
Indium	115-1				96		%
Indium	115-2				94		%
Iron	54-2	12913.68	12715.61	12632.49	12753.92	1.13	ppb
Iron	56-2	12751.20	12843.14	12438.57	12677.64	1.67	ppb
Iron	57-2	12389.23	12402.08	12170.92	12320.74	1.05	ppb
Krypton	83-1						cps
Lead	206-1	1292.23	1267.95	1260.96	1273.71	1.29	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1281.28	1264.60	1256.86	1267.58	0.98	ppb
Lead	208-1	1286.07	1258.29	1254.34	1266.24	1.37	ppb
Lithium	6-1				97		%
Magnesium	24-2	24962.63	25083.85	25227.33	25091.27	0.53	ppb
Manganese	55-2	2536.81	2563.82	2530.07	2543.57	0.70	ppb
Molybdenum	94-1	2588.66	2552.29	2568.88	2569.95	0.71	ppb
Molybdenum	95-1	2556.15	2565.69	2532.96	2551.60	0.66	ppb
Molybdenum	96-1	2545.83	2556.51	2500.72	2534.35	1.17	ppb
Molybdenum	97-1	2557.58	2571.73	2514.90	2548.07	1.16	ppb
Molybdenum	98-1	2572.64	2545.88	2507.37	2541.96	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	264.90	268.35	264.69	265.98	0.77	ppb
Phosphorus	31-2	5242.55	5182.96	5330.53	5252.01	1.41	ppb
Potassium	39-2	12526.49	12395.30	12168.27	12363.35	1.47	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	262.90	263.28	259.35	261.84	0.83	ppb
Selenium	77-2	259.63	275.79	264.57	266.66	3.11	ppb
Selenium	78-2	259.94	256.78	253.27	256.67	1.30	ppb
Silicon	28-1	264.75	266.89	263.46	265.03	0.65	ppb
Silver	107-1	265.17	265.88	258.72	263.26	1.50	ppb
Silver	109-1	266.26	267.30	259.06	264.21	1.70	ppb
Sodium	23-2	24950.38	24695.33	24864.76	24836.82	0.52	ppb
Strontium	86-1	250.41	248.73	246.87	248.67	0.71	ppb
Strontium	88-1	254.20	256.06	248.76	253.01	1.50	ppb
Sulfur	34-1	5806.24	5508.16	5291.44	5535.28	4.67	ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	259.34	253.27	252.12	254.91	1.52	ppb
Thallium	205-1	256.97	254.90	248.82	253.56	1.67	ppb
Tin	118-1	259.25	257.48	253.75	256.83	1.09	ppb
Titanium	47-1	2516.85	2571.61	2513.77	2534.08	1.28	ppb
Uranium	238-1	251.56	246.23	244.27	247.35	1.53	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	242.31	245.81	242.71	243.61	0.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				96		%
Zinc	66-2	2741.85	2708.22	2670.05	2706.71	1.33	ppb
Zirconium	90-1	256.20	253.71	254.66	254.86	0.49	ppb
Zirconium	91-1	253.44	257.34	254.31	255.03	0.80	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9622.10	9827.45	9775.79	9741.78	1.10	ppb
Antimony	121-1	489.26	502.66	501.46	497.79	1.49	ppb
Arsenic	75-2	492.94	508.62	514.48	505.35	2.20	ppb
Barium	135-1	2448.59	2506.42	2501.08	2485.36	1.29	ppb
Barium	137-1	2465.44	2537.05	2479.97	2494.15	1.52	ppb
Beryllium	9-1	483.06	508.61	511.01	500.89	3.09	ppb
Bismuth	209-1				93		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	493.31	497.87	494.24	495.14	0.49	ppb
Cadmium	106-1	491.60	502.73	498.34	497.56	1.13	ppb
Cadmium	111-1	496.65	498.26	503.30	499.40	0.69	ppb
Calcium	43-1	45940.87	49844.17	48313.97	48033.00	4.09	ppb
Calcium	44-1	46009.55	48329.84	47286.58	47208.66	2.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	516.45	516.53	517.34	516.77	0.10	ppb
Cobalt	59-2	509.94	521.31	513.93	515.06	1.12	ppb
Copper	63-2	5105.88	5311.72	5238.50	5218.70	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				98		%
Holmium	165-2				95		%
Indium	115-1				93		%
Indium	115-2				88		%
Iron	54-2	25135.81	26152.09	26292.80	25860.23	2.44	ppb
Iron	56-2	25325.79	25670.95	25390.05	25462.26	0.72	ppb
Iron	57-2	25540.34	26727.68	26168.71	26145.58	2.27	ppb
Krypton	83-1						cps
Lead	206-1	2497.11	2527.83	2502.01	2508.98	0.66	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2487.38	2507.43	2540.38	2511.73	1.07	ppb
Lead	208-1	2471.66	2508.46	2510.92	2497.01	0.88	ppb
Lithium	6-1				94		%
Magnesium	24-2	50513.89	51027.29	50958.77	50833.32	0.55	ppb
Manganese	55-2	5068.29	5110.65	5101.74	5093.56	0.44	ppb
Molybdenum	94-1	4923.12	5022.86	5042.35	4996.11	1.28	ppb
Molybdenum	95-1	4894.92	5025.34	5045.08	4988.45	1.64	ppb
Molybdenum	96-1	4917.60	4970.02	4995.61	4961.08	0.80	ppb
Molybdenum	97-1	4910.83	4946.04	4996.72	4951.19	0.87	ppb
Molybdenum	98-1	4876.63	4968.31	5039.80	4961.58	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	483.82	501.79	491.40	492.34	1.83	ppb
Phosphorus	31-2	10108.93	10442.34	10253.89	10268.39	1.63	ppb
Potassium	39-2	24047.69	24761.50	24478.36	24429.18	1.47	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				94		%
Scandium	45-2				92		%
Selenium	82-1	488.93	497.53	508.05	498.17	1.92	ppb
Selenium	77-2	509.59	556.47	525.98	530.68	4.48	ppb
Selenium	78-2	483.33	506.68	514.90	501.64	3.26	ppb
Silicon	28-1	488.61	514.59	518.93	507.37	3.23	ppb
Silver	107-1	491.53	511.34	501.87	501.58	1.98	ppb
Silver	109-1	491.17	509.60	503.48	501.42	1.87	ppb
Sodium	23-2	50549.86	50145.25	50367.30	50354.13	0.40	ppb
Strontium	86-1	491.59	508.39	509.84	503.27	2.02	ppb
Strontium	88-1	491.33	500.96	501.28	497.86	1.14	ppb
Sulfur	34-1	9638.40	10227.23	10332.85	10066.16	3.72	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	500.91	497.03	504.00	500.65	0.70	ppb
Thallium	205-1	496.08	500.11	496.27	497.49	0.46	ppb
Tin	118-1	486.89	504.39	508.72	500.00	2.31	ppb
Titanium	47-1	4760.30	5097.69	4969.94	4942.64	3.45	ppb
Uranium	238-1	476.01	501.21	496.99	491.40	2.75	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.11	521.14	511.12	514.46	1.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				92		%
Zinc	66-2	5147.83	5284.78	5132.78	5188.46	1.61	ppb
Zirconium	90-1	489.24	500.74	505.44	498.47	1.67	ppb
Zirconium	91-1	492.47	507.65	511.87	504.00	2.02	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19183.29	19534.98	19311.44	19343.24	0.92	ppb
Antimony	121-1	980.16	1007.88	997.84	995.29	1.41	ppb
Arsenic	75-2	992.72	990.29	1006.57	996.53	0.88	ppb
Barium	135-1	4917.27	5057.19	5018.93	4997.79	1.45	ppb
Barium	137-1	4909.90	5119.85	4965.58	4998.44	2.18	ppb
Beryllium	9-1	979.80	998.90	1011.47	996.72	1.60	ppb
Bismuth	209-1				92		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	990.32	1020.24	987.47	999.35	1.82	ppb
Cadmium	106-1	984.44	1012.17	999.21	998.60	1.39	ppb
Cadmium	111-1	985.90	1015.99	996.92	999.60	1.52	ppb
Calcium	43-1	94870.95	96292.48	97614.67	96259.37	1.43	ppb
Calcium	44-1	94627.71	95868.86	96020.19	95505.59	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	991.57	1011.97	976.92	993.49	1.77	ppb
Cobalt	59-2	986.26	990.07	995.92	990.75	0.49	ppb
Copper	63-2	9756.59	9846.93	9987.51	9863.68	1.18	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				98		%
Holmium	165-2				97		%
Indium	115-1				92		%
Indium	115-2				87		%
Iron	54-2	48530.01	49093.57	49921.48	49181.69	1.42	ppb
Iron	56-2	48163.77	48997.22	48459.94	48540.31	0.87	ppb
Iron	57-2	49986.02	50127.83	48767.66	49627.17	1.51	ppb
Krypton	83-1						cps
Lead	206-1	4902.61	4992.14	5073.54	4989.43	1.71	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4907.70	5010.97	5048.51	4989.06	1.46	ppb
Lead	208-1	4917.11	5024.93	5050.18	4997.41	1.41	ppb
Lithium	6-1				92		%
Magnesium	24-2	95755.12	98451.45	97180.24	97128.94	1.39	ppb
Manganese	55-2	9930.84	9935.33	9950.46	9938.88	0.10	ppb
Molybdenum	94-1	9701.32	10058.92	10192.44	9984.23	2.54	ppb
Molybdenum	95-1	9790.58	9911.80	10277.80	9993.39	2.54	ppb
Molybdenum	96-1	9877.68	9868.64	10288.60	10011.64	2.40	ppb
Molybdenum	97-1	9906.81	9890.00	10238.84	10011.88	1.96	ppb
Molybdenum	98-1	9833.82	10034.08	10158.65	10008.85	1.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	995.20	994.70	1006.08	998.66	0.64	ppb
Phosphorus	31-2	19578.83	20074.80	19740.56	19798.06	1.28	ppb
Potassium	39-2	47304.12	48389.52	47434.78	47709.47	1.24	ppb
Rhodium	103-1				88		%
Rhodium	103-2				89		%
Scandium	45-1				93		%
Scandium	45-2				95		%
Selenium	82-1	974.66	991.54	1026.69	997.63	2.66	ppb
Selenium	77-2	998.80	979.16	963.26	980.40	1.82	ppb
Selenium	78-2	983.31	999.27	1010.44	997.67	1.37	ppb
Silicon	28-1	996.45	1002.11	976.15	991.57	1.38	ppb
Silver	107-1	988.98	1008.60	987.69	995.09	1.18	ppb
Silver	109-1	998.17	1001.02	985.44	994.88	0.83	ppb
Sodium	23-2	96270.74	97702.03	95567.68	96513.48	1.13	ppb
Strontium	86-1	973.18	1012.06	1012.52	999.25	2.26	ppb
Strontium	88-1	984.24	1000.81	1015.60	1000.21	1.57	ppb
Sulfur	34-1	19700.15	20152.00	19505.95	19786.04	1.68	ppb
Terbium	159-1				97		%
Terbium	159-2				96		%
Thallium	203-1	986.09	1000.83	1008.90	998.61	1.16	ppb
Thallium	205-1	992.26	996.84	1012.20	1000.43	1.04	ppb
Tin	118-1	987.37	1012.65	994.22	998.08	1.31	ppb
Titanium	47-1	10053.21	10018.00	9988.80	10020.00	0.32	ppb
Uranium	238-1	991.99	1020.91	1003.60	1005.50	1.45	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	987.46	992.33	1005.21	995.00	0.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				94		%
Zinc	66-2	9778.43	9898.42	9863.08	9846.64	0.63	ppb
Zirconium	90-1	967.97	1006.98	1023.57	999.50	2.86	ppb
Zirconium	91-1	973.12	991.74	1027.52	997.46	2.77	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	101096.56	100422.91	98987.24	100168.90	1.08	ppb
Antimony	121-1	0.44	0.41	0.41	0.42	3.80	ppb
Arsenic	75-2	0.71	0.65	0.61	0.65	7.47	ppb
Barium	135-1	2.06	1.89	1.94	1.96	4.58	ppb
Barium	137-1	2.06	2.05	1.95	2.02	3.11	ppb
Beryllium	9-1	0.38	0.30	0.32	0.33	12.59	ppb
Bismuth	209-1				79		%
Bismuth	209-2				81		%
Bromine	81-1						cps
Cadmium	108-1	0.58	0.74	0.58	0.64	14.67	ppb
Cadmium	106-1	-0.16	-0.11	0.10	-0.05		ppb
Cadmium	111-1	0.15	0.15	0.15	0.15	2.43	ppb
Calcium	43-1	497361.39	504066.86	501433.22	500953.82	0.67	ppb
Calcium	44-1	496385.03	508682.43	498610.58	501226.02	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.23	2.26	2.13	2.21	3.05	ppb
Cobalt	59-2	2.30	2.17	2.20	2.22	3.14	ppb
Copper	63-2	1.52	1.54	1.55	1.54	1.12	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				90		%
Holmium	165-2				91		%
Indium	115-1				82		%
Indium	115-2				81		%
Iron	54-2	253043.33	246073.09	251084.11	250066.84	1.44	ppb
Iron	56-2	252099.46	247844.21	250763.99	250235.89	0.87	ppb
Iron	57-2	251230.01	248118.08	250570.87	249972.99	0.66	ppb
Krypton	83-1						cps
Lead	206-1	1.33	1.26	1.28	1.29	2.62	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.31	1.30	1.25	1.29	2.63	ppb
Lead	208-1	1.30	1.28	1.26	1.28	1.73	ppb
Lithium	6-1				82		%
Magnesium	24-2	502190.78	498780.20	500478.21	500483.06	0.34	ppb
Manganese	55-2	4.70	4.38	4.64	4.57	3.73	ppb
Molybdenum	94-1	4.80	4.65	4.45	4.63	3.77	ppb
Molybdenum	95-1	1.70	1.53	1.57	1.60	5.55	ppb
Molybdenum	96-1	2.05	1.94	1.86	1.95	4.76	ppb
Molybdenum	97-1	1.59	1.50	1.39	1.49	6.59	ppb
Molybdenum	98-1	1.55	1.42	1.38	1.45	6.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.19	3.10	3.13	3.14	1.60	ppb
Phosphorus	31-2	-9.85	-22.32	-9.57	-13.91		ppb
Potassium	39-2	251478.37	250401.70	249709.46	250529.84	0.36	ppb
Rhodium	103-1				76		%
Rhodium	103-2				80		%
Scandium	45-1				84		%
Scandium	45-2				88		%
Selenium	82-1	0.03	0.32	-0.20	0.05	527.14	ppb
Selenium	77-2	0.00	0.76	0.00	0.25	173.21	ppb
Selenium	78-2	-0.78	-0.34	-0.56	-0.56		ppb
Silicon	28-1	23.24	23.43	22.05	22.91	3.25	ppb
Silver	107-1	0.15	0.12	0.12	0.13	14.16	ppb
Silver	109-1	0.15	0.13	0.12	0.13	10.24	ppb
Sodium	23-2	510918.95	498956.66	492145.50	500673.70	1.90	ppb
Strontium	86-1	3.41	3.39	3.37	3.39	0.56	ppb
Strontium	88-1	3.41	3.36	3.39	3.39	0.84	ppb
Sulfur	34-1	-243.04	-465.20	-707.55	-471.93		ppb
Terbium	159-1				89		%
Terbium	159-2				91		%
Thallium	203-1	0.12	0.10	0.09	0.10	15.65	ppb
Thallium	205-1	0.13	0.11	0.09	0.11	17.39	ppb
Tin	118-1	0.21	0.21	0.20	0.21	3.17	ppb
Titanium	47-1	1.47	1.29	1.32	1.36	7.26	ppb
Uranium	238-1	0.08	0.06	0.06	0.07	18.88	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.29	0.26	0.30	0.28	7.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				86		%
Yttrium	89-2				90		%
Zinc	66-2	4.94	4.69	4.43	4.69	5.41	ppb
Zirconium	90-1	1.83	1.85	1.81	1.83	0.97	ppb
Zirconium	91-1	1.88	1.87	1.80	1.85	2.27	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	467.31	482.84	478.93	476.36	1.70	ppb
Antimony	121-1	209.66	208.37	208.68	208.90	0.32	ppb
Arsenic	75-2	207.68	210.59	207.37	208.55	0.85	ppb
Barium	135-1	102.20	103.27	100.59	102.02	1.32	ppb
Barium	137-1	101.87	103.33	102.40	102.53	0.72	ppb
Beryllium	9-1	104.12	103.24	104.98	104.12	0.83	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	132.30	136.81	134.40	134.51	1.68	ppb
Cadmium	106-1	83.13	83.49	83.44	83.35	0.23	ppb
Cadmium	111-1	105.58	106.80	105.71	106.03	0.63	ppb
Calcium	43-1	2167.07	2181.71	2193.21	2180.66	0.60	ppb
Calcium	44-1	2127.71	2140.92	2134.14	2134.26	0.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.54	103.37	102.58	102.50	0.90	ppb
Cobalt	59-2	105.03	105.33	106.91	105.75	0.96	ppb
Copper	63-2	105.02	106.70	108.32	106.68	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				101		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				98		%
Iron	54-2	2073.47	2102.64	2102.87	2092.99	0.81	ppb
Iron	56-2	2062.65	2018.33	2092.49	2057.82	1.81	ppb
Iron	57-2	1998.57	2010.84	2018.55	2009.32	0.50	ppb
Krypton	83-1						cps
Lead	206-1	208.99	209.75	214.81	211.18	1.50	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	199.56	204.97	209.00	204.51	2.32	ppb
Lead	208-1	203.05	207.66	209.59	206.76	1.62	ppb
Lithium	6-1				99		%
Magnesium	24-2	1133.24	1124.14	1139.99	1132.46	0.70	ppb
Manganese	55-2	100.37	102.09	102.47	101.64	1.10	ppb
Molybdenum	94-1	3934.92	3945.45	4035.17	3971.84	1.39	ppb
Molybdenum	95-1	4783.68	4878.43	4969.52	4877.21	1.91	ppb
Molybdenum	96-1	4718.18	4806.02	4843.09	4789.10	1.34	ppb
Molybdenum	97-1	4835.95	4902.79	4892.02	4876.92	0.74	ppb
Molybdenum	98-1	4762.33	4840.79	4853.20	4818.77	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.90	105.91	106.27	105.36	1.21	ppb
Phosphorus	31-2	-15.49	-24.94	-14.11	-18.18		ppb
Potassium	39-2	1898.05	1894.13	1929.63	1907.27	1.02	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	208.92	211.75	216.01	212.22	1.68	ppb
Selenium	77-2	228.29	222.56	197.98	216.28	7.45	ppb
Selenium	78-2	204.10	204.75	200.50	203.12	1.13	ppb
Silicon	28-1	0.81	1.86	1.88	1.52	40.24	ppb
Silver	107-1	48.85	50.22	49.53	49.53	1.38	ppb
Silver	109-1	49.69	50.66	50.75	50.37	1.17	ppb
Sodium	23-2	2020.67	2068.23	2013.16	2034.02	1.47	ppb
Strontium	86-1	504.00	513.12	515.28	510.80	1.17	ppb
Strontium	88-1	503.96	505.69	510.35	506.67	0.65	ppb
Sulfur	34-1	-655.31	-655.54	-705.71	-672.19		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	207.36	204.76	212.90	208.34	2.00	ppb
Thallium	205-1	204.09	201.72	205.83	203.88	1.01	ppb
Tin	118-1	0.05	0.09	0.05	0.06	37.76	ppb
Titanium	47-1	0.44	0.50	0.49	0.48	6.72	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	9.30	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	99.29	100.06	98.61	99.32	0.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	198.83	203.74	207.16	203.24	2.06	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	12.81	ppb
Zirconium	91-1	0.10	0.12	0.12	0.11	10.13	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.26	0.69	0.40	0.45	48.99	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	8.72	ppb
Arsenic	75-2	0.05	-0.02	-0.02	0.01	686.11	ppb
Barium	135-1	0.01	0.00	0.01	0.01	55.58	ppb
Barium	137-1	0.00	0.01	0.01	0.01	29.82	ppb
Beryllium	9-1	0.07	0.06	0.06	0.06	4.51	ppb
Bismuth	209-1				98		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.01	0.03	-0.01		ppb
Cadmium	106-1	-1.91	-0.51	-0.93	-1.12		ppb
Cadmium	111-1	-0.14	-0.03	-0.07	-0.08		ppb
Calcium	43-1	-0.99	0.47	0.13	-0.13		ppb
Calcium	44-1	1.09	0.95	1.31	1.12	16.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.15	-0.15	-0.13	-0.14		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	83.21	ppb
Copper	63-2	0.30	0.32	0.31	0.31	3.12	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				99		%
Holmium	165-2				98		%
Indium	115-1				97		%
Indium	115-2				98		%
Iron	54-2	-0.03	0.13	-0.43	-0.11		ppb
Iron	56-2	0.29	0.41	0.37	0.36	17.30	ppb
Iron	57-2	-0.62	-0.04	0.85	0.06	1178.49	ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.12	0.13	0.13	2.59	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.14	0.14	0.14	2.20	ppb
Lead	208-1	0.14	0.14	0.14	0.14	1.48	ppb
Lithium	6-1				99		%
Magnesium	24-2	-10.21	-10.19	-10.38	-10.26		ppb
Manganese	55-2	-0.01	0.02	-0.02	0.00		ppb
Molybdenum	94-1	0.10	0.10	0.07	0.09	19.08	ppb
Molybdenum	95-1	0.12	0.10	0.12	0.11	10.65	ppb
Molybdenum	96-1	0.11	0.10	0.10	0.11	4.69	ppb
Molybdenum	97-1	0.11	0.07	0.09	0.09	18.49	ppb
Molybdenum	98-1	0.14	0.08	0.08	0.10	32.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.07	-0.01	-0.04		ppb
Phosphorus	31-2	-19.45	-19.28	-22.79	-20.51		ppb
Potassium	39-2	9.72	7.30	9.17	8.73	14.54	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				97		%
Scandium	45-2				98		%
Selenium	82-1	0.12	-0.08	0.06	0.03	299.83	ppb
Selenium	77-2	0.70	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.80	-0.80	-0.39	-0.66		ppb
Silicon	28-1	-0.04	0.70	0.57	0.41	96.49	ppb
Silver	107-1	0.01	0.05	0.01	0.02	83.21	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.93	ppb
Sodium	23-2	21.79	20.05	21.77	21.20	4.71	ppb
Strontium	86-1	0.01	0.00	0.01	0.01	30.15	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	32.60	ppb
Sulfur	34-1	-457.71	-299.02	-217.94	-324.89		ppb
Terbium	159-1				99		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.02	0.02	0.02	8.90	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	15.57	ppb
Tin	118-1	-0.02	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.00	-0.01	0.01	0.00	509.50	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	82.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	0.05	0.07	0.04	0.05	33.21	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	79.64	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	23.47	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87946.37	89438.57	88414.68	88599.87	0.86	ppb
Antimony	121-1	1.02	1.11	1.11	1.08	4.99	ppb
Arsenic	75-2	0.25	0.31	0.35	0.30	16.26	ppb
Barium	135-1	1.30	1.43	1.43	1.39	5.51	ppb
Barium	137-1	1.25	1.32	1.40	1.32	5.72	ppb
Beryllium	9-1	0.31	0.34	0.31	0.32	4.33	ppb
Bismuth	209-1				92		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	15.99	17.64	16.11	16.58	5.56	ppb
Cadmium	106-1	-2.85	-2.04	-2.12	-2.34		ppb
Cadmium	111-1	0.42	0.43	0.54	0.46	15.40	ppb
Calcium	43-1	88091.68	93451.76	93941.77	91828.41	3.53	ppb
Calcium	44-1	87758.75	95358.70	94327.91	92481.79	4.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.07	19.46	19.27	19.27	1.01	ppb
Cobalt	59-2	1.15	1.19	1.16	1.17	2.06	ppb
Copper	63-2	7.80	8.00	7.91	7.90	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				100		%
Holmium	165-2				98		%
Indium	115-1				94		%
Indium	115-2				91		%
Iron	54-2	98052.46	99341.89	96567.18	97987.17	1.42	ppb
Iron	56-2	98563.42	99823.58	98387.66	98924.89	0.79	ppb
Iron	57-2	99252.46	100504.60	98111.92	99289.66	1.21	ppb
Krypton	83-1						cps
Lead	206-1	4.26	4.73	4.69	4.56	5.75	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.97	4.27	4.26	4.17	4.10	ppb
Lead	208-1	4.03	4.44	4.40	4.29	5.18	ppb
Lithium	6-1				95		%
Magnesium	24-2	92615.56	92290.17	91234.65	92046.79	0.78	ppb
Manganese	55-2	7.47	7.43	7.51	7.47	0.54	ppb
Molybdenum	94-1	1482.56	1588.05	1570.35	1546.98	3.65	ppb
Molybdenum	95-1	1794.26	1926.73	1940.25	1887.08	4.27	ppb
Molybdenum	96-1	1788.63	1880.67	1916.20	1861.83	3.54	ppb
Molybdenum	97-1	1820.47	1913.99	1969.89	1901.45	3.97	ppb
Molybdenum	98-1	1804.55	1925.46	1924.94	1884.98	3.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.96	5.13	5.06	5.05	1.70	ppb
Phosphorus	31-2	99888.01	100680.31	100310.48	100292.94	0.40	ppb
Potassium	39-2	94975.87	94943.54	93449.35	94456.25	0.92	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				97		%
Scandium	45-2				96		%
Selenium	82-1	-0.26	-0.11	-0.24	-0.20		ppb
Selenium	77-2	0.71	0.73	0.00	0.48	86.61	ppb
Selenium	78-2	-0.38	0.05	-0.80	-0.38		ppb
Silicon	28-1	25.17	29.46	30.02	28.21	9.41	ppb
Silver	107-1	0.06	0.07	0.06	0.07	7.03	ppb
Silver	109-1	0.06	0.07	0.07	0.07	5.42	ppb
Sodium	23-2	96749.68	97531.92	96183.11	96821.57	0.70	ppb
Strontium	86-1	30.12	32.75	32.94	31.93	4.94	ppb
Strontium	88-1	31.30	34.03	34.28	33.20	4.98	ppb
Sulfur	34-1	88018.42	93023.69	92045.39	91029.17	2.91	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	0.07	0.08	0.11	0.08	24.70	ppb
Thallium	205-1	0.07	0.09	0.10	0.09	16.00	ppb
Tin	118-1	0.19	0.24	0.22	0.21	11.46	ppb
Titanium	47-1	1888.18	2039.69	2066.10	1997.99	4.81	ppb
Uranium	238-1	0.01	0.01	0.02	0.01	8.36	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.15	0.15	0.16	4.39	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				96		%
Zinc	66-2	11.32	10.86	10.88	11.02	2.37	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.09	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	17.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	90861.33	90283.38	88398.00	89847.57	1.43	ppb
Antimony	121-1	21.02	21.48	21.63	21.37	1.47	ppb
Arsenic	75-2	21.75	22.13	20.94	21.61	2.79	ppb
Barium	135-1	21.32	21.73	21.91	21.65	1.39	ppb
Barium	137-1	21.25	21.98	21.84	21.69	1.80	ppb
Beryllium	9-1	20.62	21.81	21.52	21.31	2.91	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	33.83	33.26	33.26	33.45	0.98	ppb
Cadmium	106-1	13.42	13.83	13.38	13.54	1.85	ppb
Cadmium	111-1	19.70	20.02	20.19	19.97	1.25	ppb
Calcium	43-1	97295.48	100218.32	97375.34	98296.38	1.69	ppb
Calcium	44-1	96697.00	98153.01	97114.87	97321.62	0.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.15	39.78	39.61	39.51	0.83	ppb
Cobalt	59-2	21.26	21.48	21.11	21.28	0.89	ppb
Copper	63-2	28.19	28.52	27.77	28.16	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				99		%
Holmium	165-2				99		%
Indium	115-1				94		%
Indium	115-2				94		%
Iron	54-2	101126.81	101314.17	99254.75	100565.25	1.13	ppb
Iron	56-2	101949.54	101954.73	98882.26	100928.84	1.76	ppb
Iron	57-2	100776.80	100435.59	100573.25	100595.21	0.17	ppb
Krypton	83-1						cps
Lead	206-1	24.93	25.83	25.15	25.30	1.85	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.33	24.85	24.21	24.46	1.39	ppb
Lead	208-1	24.23	24.96	24.54	24.57	1.50	ppb
Lithium	6-1				93		%
Magnesium	24-2	93817.02	92229.32	90773.97	92273.44	1.65	ppb
Manganese	55-2	27.55	27.45	27.28	27.43	0.49	ppb
Molybdenum	94-1	1639.91	1670.97	1625.09	1645.32	1.42	ppb
Molybdenum	95-1	1998.17	2034.59	1960.54	1997.77	1.85	ppb
Molybdenum	96-1	1952.81	1985.38	1920.36	1952.85	1.66	ppb
Molybdenum	97-1	2016.37	2014.38	1979.61	2003.46	1.03	ppb
Molybdenum	98-1	1988.57	1997.40	1973.47	1986.48	0.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.88	24.90	24.26	24.68	1.48	ppb
Phosphorus	31-2	102725.17	103054.30	101474.46	102417.98	0.81	ppb
Potassium	39-2	98068.32	96128.18	95239.45	96478.65	1.50	ppb
Rhodium	103-1				90		%
Rhodium	103-2				92		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	20.32	21.21	20.08	20.54	2.90	ppb
Selenium	77-2	16.11	26.66	19.15	20.64	26.30	ppb
Selenium	78-2	21.99	15.30	19.81	19.03	17.93	ppb
Silicon	28-1	29.67	31.47	30.57	30.57	2.95	ppb
Silver	107-1	18.50	19.04	19.08	18.87	1.72	ppb
Silver	109-1	18.95	19.48	19.21	19.21	1.38	ppb
Sodium	23-2	99052.85	99081.49	97073.01	98402.45	1.17	ppb
Strontium	86-1	33.28	34.14	33.47	33.63	1.35	ppb
Strontium	88-1	34.33	35.69	34.55	34.86	2.11	ppb
Sulfur	34-1	96791.42	97585.44	95879.23	96752.03	0.88	ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	20.54	21.28	20.95	20.92	1.77	ppb
Thallium	205-1	20.65	21.27	21.03	20.98	1.49	ppb
Tin	118-1	0.17	0.15	0.19	0.17	10.22	ppb
Titanium	47-1	2059.76	2151.40	2094.71	2101.96	2.20	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	2.51	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.95	19.94	19.65	19.84	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				98		%
Zinc	66-2	30.69	31.48	30.76	30.97	1.41	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	8.52	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	17.94	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48684.71	47566.56	48760.86	48337.38	1.38	ppb
Antimony	121-1	487.95	506.55	499.37	497.95	1.88	ppb
Arsenic	75-2	494.26	494.86	494.14	494.42	0.08	ppb
Barium	135-1	2494.21	2579.48	2508.38	2527.36	1.81	ppb
Barium	137-1	2467.54	2517.39	2561.62	2515.52	1.87	ppb
Beryllium	9-1	502.11	526.64	519.81	516.19	2.45	ppb
Bismuth	209-1				87		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	482.69	495.79	492.52	490.33	1.39	ppb
Cadmium	106-1	478.71	490.67	500.17	489.85	2.20	ppb
Cadmium	111-1	483.04	504.07	493.47	493.53	2.13	ppb
Calcium	43-1	234940.28	236153.02	239051.28	236714.86	0.89	ppb
Calcium	44-1	227705.13	235151.37	237615.88	233490.80	2.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	509.75	511.27	510.13	510.38	0.16	ppb
Cobalt	59-2	496.60	490.40	493.29	493.43	0.63	ppb
Copper	63-2	4863.77	4724.25	4868.36	4818.79	1.70	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				97		%
Indium	115-1				90		%
Indium	115-2				89		%
Iron	54-2	121141.35	119211.95	121866.25	120739.85	1.14	ppb
Iron	56-2	120540.50	122285.71	121501.39	121442.53	0.72	ppb
Iron	57-2	121437.24	121542.70	121413.88	121464.61	0.06	ppb
Krypton	83-1						cps
Lead	206-1	2563.31	2645.43	2581.51	2596.75	1.66	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2554.95	2652.65	2592.83	2600.14	1.89	ppb
Lead	208-1	2531.96	2624.28	2582.37	2579.54	1.79	ppb
Lithium	6-1				89		%
Magnesium	24-2	241105.86	234007.32	235873.87	236995.69	1.55	ppb
Manganese	55-2	5015.49	5044.50	4989.22	5016.40	0.55	ppb
Molybdenum	94-1	5023.53	5211.92	5179.51	5138.32	1.96	ppb
Molybdenum	95-1	5069.41	5160.06	5200.53	5143.34	1.31	ppb
Molybdenum	96-1	5073.57	5060.71	5219.40	5117.90	1.72	ppb
Molybdenum	97-1	5073.85	5076.58	5196.56	5115.66	1.37	ppb
Molybdenum	98-1	5086.56	5122.49	5185.19	5131.41	0.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.62	454.63	465.39	461.21	1.25	ppb
Phosphorus	31-2	10104.79	10053.41	10101.84	10086.68	0.29	ppb
Potassium	39-2	119898.19	117690.11	118084.91	118557.74	0.99	ppb
Rhodium	103-1				85		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				96		%
Selenium	82-1	485.73	493.35	499.96	493.01	1.44	ppb
Selenium	77-2	445.49	504.23	500.57	483.43	6.81	ppb
Selenium	78-2	475.04	499.65	500.61	491.77	2.95	ppb
Silicon	28-1	500.22	521.83	528.27	516.78	2.84	ppb
Silver	107-1	479.93	489.67	491.59	487.06	1.28	ppb
Silver	109-1	475.39	500.91	490.47	488.92	2.62	ppb
Sodium	23-2	236252.17	234513.11	232850.32	234538.53	0.73	ppb
Strontium	86-1	512.29	524.44	517.13	517.95	1.18	ppb
Strontium	88-1	504.83	506.20	518.30	509.78	1.45	ppb
Sulfur	34-1	9315.40	9765.95	9773.03	9618.13	2.73	ppb
Terbium	159-1				96		%
Terbium	159-2				97		%
Thallium	203-1	516.99	522.55	513.59	517.71	0.87	ppb
Thallium	205-1	505.66	530.81	529.14	521.87	2.70	ppb
Tin	118-1	500.15	507.17	515.18	507.50	1.48	ppb
Titanium	47-1	5012.58	5049.98	5311.35	5124.64	3.18	ppb
Uranium	238-1	513.56	536.35	524.96	524.96	2.17	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	506.69	504.86	512.71	508.09	0.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				96		%
Zinc	66-2	4818.09	4799.52	4851.23	4822.95	0.54	ppb
Zirconium	90-1	506.62	526.47	517.01	516.70	1.92	ppb
Zirconium	91-1	508.27	523.59	529.89	520.58	2.14	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.37	0.72	0.50	0.53	33.44	ppb
Antimony	121-1	0.04	0.03	0.03	0.03	3.35	ppb
Arsenic	75-2	-0.02	-0.02	0.00	-0.01		ppb
Barium	135-1	0.00	0.01	0.00	0.00	162.12	ppb
Barium	137-1	0.01	0.01	0.00	0.00	157.64	ppb
Beryllium	9-1	0.09	0.08	0.08	0.08	7.58	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	0.04	0.00	0.00		ppb
Cadmium	106-1	-0.98	-0.73	-0.94	-0.89		ppb
Cadmium	111-1	-0.06	-0.05	-0.07	-0.06		ppb
Calcium	43-1	-4.05	-3.57	-4.15	-3.92		ppb
Calcium	44-1	-2.80	-2.99	-0.96	-2.25		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.18	-0.15	-0.16	-0.16		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	0.04	0.01	0.02	0.02	58.48	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				103		%
Indium	115-2				101		%
Iron	54-2	1.49	1.08	0.85	1.14	28.39	ppb
Iron	56-2	1.16	1.18	1.14	1.16	2.05	ppb
Iron	57-2	0.86	1.17	-0.18	0.62	114.32	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.15	0.17	0.16	4.92	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.17	0.16	0.17	0.16	3.75	ppb
Lead	208-1	0.17	0.16	0.17	0.17	2.10	ppb
Lithium	6-1				102		%
Magnesium	24-2	-11.42	-11.71	-11.37	-11.50		ppb
Manganese	55-2	0.02	0.00	0.00	0.01	165.56	ppb
Molybdenum	94-1	0.05	0.04	0.05	0.04	10.02	ppb
Molybdenum	95-1	0.05	0.03	0.03	0.04	32.20	ppb
Molybdenum	96-1	0.05	0.04	0.03	0.04	29.38	ppb
Molybdenum	97-1	0.05	0.03	0.03	0.04	36.48	ppb
Molybdenum	98-1	0.05	0.03	0.03	0.03	31.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.07	-0.08	-0.05	-0.07		ppb
Phosphorus	31-2	-26.49	-19.82	-17.80	-21.37		ppb
Potassium	39-2	19.32	16.75	18.48	18.18	7.20	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				101		%
Scandium	45-2				102		%
Selenium	82-1	-0.53	0.18	-0.12	-0.16		ppb
Selenium	77-2	0.00	0.67	0.00	0.22	173.21	ppb
Selenium	78-2	-0.61	-0.42	-0.61	-0.55		ppb
Silicon	28-1	-2.60	-1.03	0.06	-1.19		ppb
Silver	107-1	0.02	0.02	0.02	0.02	11.00	ppb
Silver	109-1	0.02	0.02	0.01	0.02	21.15	ppb
Sodium	23-2	34.98	30.25	31.97	32.40	7.39	ppb
Strontium	86-1	0.00	0.00	0.01	0.00	1760.38	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	8.49	ppb
Sulfur	34-1	-811.46	-489.84	-197.89	-499.73		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.04	0.04	0.03	11.57	ppb
Thallium	205-1	0.03	0.04	0.03	0.03	5.90	ppb
Tin	118-1	-0.01	0.01	0.00	0.00		ppb
Titanium	47-1	0.05	0.04	0.02	0.04	35.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	57.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	-0.15	-0.02	-0.11	-0.09		ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	48.33	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	2.64	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12869.41	15272.54	13277.41	13806.46	9.31	ppb
Antimony	121-1	2.33	2.45	2.47	2.42	3.26	ppb
Arsenic	75-2	40.25	44.88	41.36	42.16	5.73	ppb
Barium	135-1	675.35	710.28	714.63	700.09	3.08	ppb
Barium	137-1	671.25	698.79	708.15	692.73	2.77	ppb
Beryllium	9-1	3.77	3.82	3.78	3.79	0.81	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	17.06	17.97	17.13	17.39	2.92	ppb
Cadmium	106-1	18.30	17.87	18.55	18.24	1.88	ppb
Cadmium	111-1	19.45	19.88	20.39	19.91	2.37	ppb
Calcium	43-1	147297.62	152053.23	151181.48	150177.44	1.69	ppb
Calcium	44-1	148319.07	146931.25	148087.35	147779.22	0.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	57.61	65.09	59.49	60.73	6.41	ppb
Cobalt	59-2	18.39	20.79	18.97	19.38	6.46	ppb
Copper	63-2	381.34	420.03	378.86	393.41	5.87	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				104		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	34560.60	38630.48	35217.26	36136.11	6.05	ppb
Iron	56-2	34445.43	38785.99	35513.31	36248.25	6.24	ppb
Iron	57-2	35289.50	39539.28	35457.60	36762.12	6.55	ppb
Krypton	83-1						cps
Lead	206-1	1493.06	1540.00	1525.08	1519.38	1.58	ppb

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Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1446.24	1499.40	1500.74	1482.12	2.10	ppb
Lead	208-1	1464.24	1505.46	1510.66	1493.45	1.70	ppb
Lithium	6-1				101		%
Magnesium	24-2	10872.35	12477.09	11443.04	11597.49	7.01	ppb
Manganese	55-2	5966.92	6653.71	6115.99	6245.54	5.78	ppb
Molybdenum	94-1	8.22	8.81	8.75	8.60	3.78	ppb
Molybdenum	95-1	2.10	2.20	2.17	2.16	2.42	ppb
Molybdenum	96-1	2.68	2.83	2.89	2.80	3.72	ppb
Molybdenum	97-1	2.03	2.18	2.18	2.13	4.01	ppb
Molybdenum	98-1	2.08	2.21	2.16	2.15	3.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	68.27	76.29	69.40	71.32	6.09	ppb
Phosphorus	31-2	2752.10	3217.81	2902.01	2957.31	8.04	ppb
Potassium	39-2	5455.15	6198.58	5617.01	5756.91	6.79	ppb
Rhodium	103-1				97		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	10.93	11.49	11.39	11.27	2.67	ppb
Selenium	77-2	61.71	78.85	67.08	69.22	12.67	ppb
Selenium	78-2	19.94	19.31	20.30	19.85	2.52	ppb
Silicon	28-1	9541.28	9900.01	10039.52	9826.94	2.62	ppb
Silver	107-1	7.48	7.71	7.83	7.67	2.36	ppb
Silver	109-1	7.54	7.85	7.77	7.72	2.09	ppb
Sodium	23-2	554.82	645.24	577.78	592.61	7.93	ppb
Strontium	86-1	534.98	550.88	548.47	544.78	1.57	ppb
Strontium	88-1	530.92	559.15	548.66	546.24	2.61	ppb
Sulfur	34-1	310.79	540.51	625.74	492.35	33.09	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.66	0.72	0.73	0.70	5.03	ppb
Thallium	205-1	0.66	0.72	0.74	0.71	5.59	ppb
Tin	118-1	13.52	13.98	14.07	13.85	2.13	ppb
Titanium	47-1	225.95	230.28	234.65	230.29	1.89	ppb
Uranium	238-1	3.60	3.75	3.72	3.69	2.13	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	61.81	70.89	64.80	65.83	7.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				108		%
Zinc	66-2	4189.27	4706.41	4283.42	4393.04	6.27	ppb
Zirconium	90-1	3.64	3.87	3.84	3.79	3.32	ppb
Zirconium	91-1	3.59	3.80	3.86	3.75	3.88	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20651.43	21726.71	21064.62	21147.59	2.56	ppb
Antimony	121-1	3.93	3.91	3.91	3.92	0.36	ppb
Arsenic	75-2	72.97	76.84	73.68	74.50	2.77	ppb
Barium	135-1	2803.59	2793.00	2723.55	2773.38	1.57	ppb
Barium	137-1	2774.51	2831.01	2740.42	2781.98	1.64	ppb
Beryllium	9-1	3.60	3.50	3.41	3.50	2.63	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	71.49	71.24	69.29	70.68	1.70	ppb
Cadmium	106-1	69.72	69.70	70.08	69.83	0.31	ppb
Cadmium	111-1	85.46	85.22	84.81	85.16	0.39	ppb
Calcium	43-1	129836.20	129963.47	126400.52	128733.40	1.57	ppb
Calcium	44-1	126905.97	129455.38	124617.11	126992.82	1.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	42.92	45.27	44.08	44.09	2.66	ppb
Cobalt	59-2	36.74	38.96	37.74	37.81	2.95	ppb
Copper	63-2	632.16	676.34	645.78	651.43	3.47	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				102		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	109257.95	114993.12	111229.24	111826.77	2.61	ppb
Iron	56-2	110433.63	115948.43	111872.61	112751.56	2.54	ppb
Iron	57-2	110310.44	116026.20	112502.70	112946.45	2.55	ppb
Krypton	83-1						cps
Lead	206-1	1831.26	1801.17	1791.64	1808.02	1.14	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1779.24	1775.80	1750.96	1768.67	0.87	ppb
Lead	208-1	1794.38	1777.80	1765.26	1779.14	0.82	ppb
Lithium	6-1				101		%
Magnesium	24-2	13822.73	14114.23	13550.20	13829.05	2.04	ppb
Manganese	55-2	6861.50	7206.96	6983.61	7017.36	2.50	ppb
Molybdenum	94-1	9.66	9.81	9.32	9.59	2.63	ppb
Molybdenum	95-1	4.81	4.80	4.66	4.76	1.83	ppb
Molybdenum	96-1	5.32	5.29	5.17	5.26	1.55	ppb
Molybdenum	97-1	4.87	4.75	4.68	4.76	2.01	ppb
Molybdenum	98-1	4.69	4.73	4.64	4.69	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	493.32	519.59	501.61	504.84	2.66	ppb
Phosphorus	31-2	4038.67	4208.36	3957.88	4068.31	3.14	ppb
Potassium	39-2	7427.09	7810.31	7569.69	7602.37	2.55	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	11.26	11.92	11.74	11.64	2.92	ppb
Selenium	77-2	77.76	74.46	81.61	77.94	4.59	ppb
Selenium	78-2	21.76	19.50	21.44	20.90	5.85	ppb
Silicon	28-1	5516.66	5681.79	5473.82	5557.42	1.98	ppb
Silver	107-1	9.37	9.37	9.37	9.37	0.03	ppb
Silver	109-1	9.41	9.48	9.38	9.43	0.53	ppb
Sodium	23-2	904.52	968.81	926.75	933.36	3.50	ppb
Strontium	86-1	502.67	491.72	494.24	496.21	1.16	ppb
Strontium	88-1	503.15	492.64	478.54	491.44	2.51	ppb
Sulfur	34-1	947.24	1172.74	1108.81	1076.26	10.80	ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	1.14	1.17	1.16	1.16	1.37	ppb
Thallium	205-1	1.14	1.16	1.16	1.15	1.02	ppb
Tin	118-1	30.41	30.33	30.09	30.28	0.54	ppb
Titanium	47-1	332.31	332.81	329.58	331.57	0.52	ppb
Uranium	238-1	4.46	4.42	4.32	4.40	1.65	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	107.27	114.57	111.08	110.97	3.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				111		%
Zinc	66-2	5546.64	6037.57	5651.04	5745.08	4.50	ppb
Zirconium	90-1	3.17	3.19	3.12	3.16	1.10	ppb
Zirconium	91-1	3.20	3.28	3.13	3.20	2.42	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.20	0.12	0.09	0.00	8918.26	ppb
Antimony	121-1	0.00	0.00	0.01	0.00	7.92	ppb
Arsenic	75-2	0.00	0.03	-0.02	0.00	530.04	ppb
Barium	135-1	0.00	0.00	0.01	0.00	182.68	ppb
Barium	137-1	0.01	0.00	0.00	0.00	119.29	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	4.06	ppb
Bismuth	209-1				95		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.06	0.03	0.04	42.90	ppb
Cadmium	106-1	-1.06	-0.87	-0.59	-0.84		ppb
Cadmium	111-1	-0.08	-0.07	-0.04	-0.06		ppb
Calcium	43-1	-2.52	-3.00	-4.78	-3.43		ppb
Calcium	44-1	0.83	-2.76	-3.28	-1.74		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.20	-0.19	-0.17	-0.18		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.08	-0.06	-0.09	-0.08		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				102		%
Indium	115-1				96		%
Indium	115-2				102		%
Iron	54-2	0.80	0.71	0.57	0.69	16.67	ppb
Iron	56-2	1.07	0.86	0.83	0.92	14.17	ppb
Iron	57-2	0.17	0.49	-0.20	0.15	225.54	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.13	0.13	0.14	7.21	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.12	0.14	0.14	15.14	ppb
Lead	208-1	0.16	0.13	0.13	0.14	12.63	ppb
Lithium	6-1				98		%
Magnesium	24-2	-11.80	-11.96	-11.69	-11.82		ppb
Manganese	55-2	0.05	0.05	-0.01	0.03	109.47	ppb
Molybdenum	94-1	0.01	0.00	0.00	0.00	417.06	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	823.13	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	255.45	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	61.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.08	-0.08	-0.07		ppb
Phosphorus	31-2	-30.05	-26.73	-24.85	-27.21		ppb
Potassium	39-2	5.13	8.54	7.62	7.10	24.89	ppb
Rhodium	103-1				96		%
Rhodium	103-2				103		%
Scandium	45-1				97		%
Scandium	45-2				103		%
Selenium	82-1	-0.09	-0.21	-0.43	-0.24		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.23	-0.05	-0.81	-0.36		ppb
Silicon	28-1	4.98	-0.29	-1.22	1.16	288.83	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.78	ppb
Silver	109-1	0.01	0.01	0.01	0.01	22.50	ppb
Sodium	23-2	11.53	9.69	11.00	10.74	8.82	ppb
Strontium	86-1	0.02	-0.01	0.01	0.01	150.81	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	24.77	ppb
Sulfur	34-1	737.64	-244.45	-406.58	28.87	2144.58	ppb
Terbium	159-1				97		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.03	0.03	0.03	12.63	ppb
Thallium	205-1	0.03	0.02	0.03	0.03	13.45	ppb
Tin	118-1	0.01	-0.01	-0.01	0.00		ppb
Titanium	47-1	0.03	0.02	0.00	0.02	76.57	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	25.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				104		%
Zinc	66-2	-0.17	-0.08	-0.11	-0.12		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	58.54	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	38.13	39.72	37.33	38.39	3.17	ppb
Antimony	121-1	3.89	3.82	3.93	3.88	1.44	ppb
Arsenic	75-2	2.03	1.89	2.07	2.00	4.82	ppb
Barium	135-1	18.90	18.93	19.47	19.10	1.69	ppb
Barium	137-1	19.12	19.10	19.37	19.20	0.79	ppb
Beryllium	9-1	2.05	2.06	2.07	2.06	0.54	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.99	1.62	1.84	1.82	10.36	ppb
Cadmium	106-1	1.81	1.17	2.30	1.76	32.28	ppb
Cadmium	111-1	1.93	1.97	2.13	2.01	5.32	ppb
Calcium	43-1	1131.32	1143.03	1132.18	1135.51	0.57	ppb
Calcium	44-1	1019.05	1037.88	1015.64	1024.19	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.59	3.41	3.45	3.48	2.76	ppb
Cobalt	59-2	1.91	1.97	1.94	1.94	1.57	ppb
Copper	63-2	4.30	4.17	4.18	4.22	1.76	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				101		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	381.64	387.77	374.58	381.33	1.73	ppb
Iron	56-2	382.74	378.68	381.54	380.99	0.55	ppb
Iron	57-2	379.53	378.34	375.82	377.90	0.50	ppb
Krypton	83-1						cps
Lead	206-1	1.96	1.90	1.88	1.91	1.94	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.97	1.94	1.95	1.96	0.72	ppb
Lead	208-1	1.96	1.91	1.93	1.93	1.16	ppb
Lithium	6-1				101		%
Magnesium	24-2	878.40	889.73	870.06	879.40	1.12	ppb
Manganese	55-2	2.01	1.91	1.91	1.94	2.91	ppb
Molybdenum	94-1	11.07	10.97	11.12	11.05	0.68	ppb
Molybdenum	95-1	9.34	9.25	9.45	9.35	1.10	ppb
Molybdenum	96-1	9.45	9.41	9.45	9.44	0.26	ppb
Molybdenum	97-1	9.38	9.43	9.36	9.39	0.36	ppb
Molybdenum	98-1	9.13	9.20	9.27	9.20	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.94	1.84	1.86	1.88	2.87	ppb
Phosphorus	31-2	31.42	28.18	28.40	29.33	6.17	ppb
Potassium	39-2	914.27	907.67	918.20	913.38	0.58	ppb
Rhodium	103-1				100		%
Rhodium	103-2				103		%
Scandium	45-1				101		%
Scandium	45-2				104		%
Selenium	82-1	9.33	8.88	10.91	9.71	10.96	ppb
Selenium	77-2	11.29	12.05	6.03	9.79	33.49	ppb
Selenium	78-2	8.64	9.11	9.70	9.15	5.78	ppb
Silicon	28-1	19.09	18.77	17.10	18.32	5.83	ppb
Silver	107-1	1.97	1.92	2.02	1.97	2.57	ppb
Silver	109-1	1.92	1.97	1.97	1.95	1.53	ppb
Sodium	23-2	939.22	925.84	923.56	929.54	0.91	ppb
Strontium	86-1	428.95	422.15	434.51	428.54	1.44	ppb
Strontium	88-1	418.47	420.64	414.39	417.84	0.76	ppb
Sulfur	34-1	-164.01	-210.27	-167.84	-180.71		ppb
Terbium	159-1				100		%
Terbium	159-2				103		%
Thallium	203-1	1.89	1.82	1.85	1.85	1.97	ppb
Thallium	205-1	1.86	1.85	1.84	1.85	0.59	ppb
Tin	118-1	9.78	9.60	9.87	9.75	1.43	ppb
Titanium	47-1	2.26	2.31	2.28	2.28	1.18	ppb
Uranium	238-1	1.71	1.71	1.71	1.71	0.17	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.42	9.69	9.53	9.55	1.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	9.70	10.09	10.07	9.95	2.22	ppb
Zirconium	90-1	1.80	1.85	1.82	1.82	1.35	ppb
Zirconium	91-1	1.86	1.82	1.88	1.85	1.73	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20365.67	20646.52	20892.87	20635.02	1.28	ppb
Antimony	121-1	1.09	1.16	1.18	1.15	4.07	ppb
Arsenic	75-2	55.35	54.91	56.50	55.59	1.48	ppb
Barium	135-1	226.97	233.20	238.84	233.00	2.55	ppb
Barium	137-1	240.30	243.40	252.62	245.44	2.61	ppb
Beryllium	9-1	1.00	1.04	1.00	1.01	2.32	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.44	0.45	0.51	0.47	8.40	ppb
Cadmium	106-1	-0.17	-0.25	-0.27	-0.23		ppb
Cadmium	111-1	0.15	0.13	0.16	0.14	8.66	ppb
Calcium	43-1	5193.16	5398.00	5289.56	5293.58	1.94	ppb
Calcium	44-1	5267.65	5416.88	5305.39	5329.97	1.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	48.13	49.41	49.59	49.04	1.62	ppb
Cobalt	59-2	27.41	27.59	27.89	27.63	0.88	ppb
Copper	63-2	93.55	95.72	95.45	94.91	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				102		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				98		%
Iron	54-2	57248.47	58228.01	58399.88	57958.79	1.07	ppb
Iron	56-2	58767.60	58996.65	59047.21	58937.15	0.25	ppb
Iron	57-2	58691.58	60234.31	59052.04	59325.98	1.36	ppb
Krypton	83-1						cps
Lead	206-1	23.92	24.60	24.98	24.50	2.19	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.09	23.54	23.86	23.50	1.65	ppb
Lead	208-1	23.35	23.95	24.39	23.90	2.18	ppb
Lithium	6-1				105		%
Magnesium	24-2	10444.06	10354.59	10380.72	10393.12	0.44	ppb
Manganese	55-2	468.00	477.03	477.12	474.05	1.11	ppb
Molybdenum	94-1	2.51	2.61	2.64	2.59	2.56	ppb
Molybdenum	95-1	1.12	1.21	1.26	1.20	5.93	ppb
Molybdenum	96-1	1.34	1.40	1.41	1.38	2.71	ppb
Molybdenum	97-1	1.09	1.27	1.23	1.20	8.01	ppb
Molybdenum	98-1	1.14	1.20	1.20	1.18	2.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	70.74	72.97	72.30	72.00	1.59	ppb
Phosphorus	31-2	574.20	615.19	648.03	612.47	6.04	ppb
Potassium	39-2	555.37	555.51	558.66	556.51	0.33	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	0.68	0.51	1.22	0.81	45.70	ppb
Selenium	77-2	27.35	25.22	21.06	24.54	13.04	ppb
Selenium	78-2	5.28	4.01	5.11	4.80	14.36	ppb
Silicon	28-1	5545.17	5719.41	5648.48	5637.69	1.55	ppb
Silver	107-1	0.42	0.41	0.37	0.40	7.22	ppb
Silver	109-1	0.43	0.37	0.36	0.39	9.35	ppb
Sodium	23-2	99.92	105.27	106.41	103.87	3.34	ppb
Strontium	86-1	49.05	51.17	51.35	50.52	2.52	ppb
Strontium	88-1	51.45	52.91	52.78	52.38	1.55	ppb
Sulfur	34-1	-1923.57	-2033.27	-2290.65	-2082.50		ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.19	0.21	0.22	0.21	5.67	ppb
Thallium	205-1	0.20	0.21	0.22	0.21	6.35	ppb
Tin	118-1	0.31	0.30	0.34	0.32	6.65	ppb
Titanium	47-1	21.40	21.94	21.82	21.72	1.30	ppb
Uranium	238-1	0.43	0.44	0.45	0.44	1.83	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	61.04	61.74	61.97	61.59	0.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	128.18	128.73	130.07	128.99	0.75	ppb
Zirconium	90-1	0.84	0.89	0.89	0.87	3.41	ppb
Zirconium	91-1	0.86	0.89	0.91	0.89	2.86	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20503.46	20756.85	20279.42	20513.24	1.16	ppb
Antimony	121-1	1.05	1.06	1.02	1.04	1.95	ppb
Arsenic	75-2	53.35	54.95	54.23	54.18	1.48	ppb
Barium	135-1	232.61	233.58	231.10	232.43	0.54	ppb
Barium	137-1	239.47	239.73	239.64	239.61	0.05	ppb
Beryllium	9-1	1.03	1.00	1.05	1.03	2.47	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.42	0.44	0.38	0.41	6.44	ppb
Cadmium	106-1	-1.50	-0.77	-1.15	-1.14		ppb
Cadmium	111-1	0.05	0.12	0.07	0.08	41.58	ppb
Calcium	43-1	5369.78	5368.52	5405.48	5381.26	0.39	ppb
Calcium	44-1	5310.48	5394.08	5379.48	5361.35	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.11	49.36	49.10	49.19	0.30	ppb
Cobalt	59-2	27.85	27.80	27.67	27.78	0.34	ppb
Copper	63-2	95.65	95.34	95.14	95.37	0.27	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				102		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	57723.70	59120.02	57822.37	58222.03	1.34	ppb
Iron	56-2	58240.06	59052.32	59491.79	58928.06	1.08	ppb
Iron	57-2	59391.88	58729.94	58174.67	58765.49	1.04	ppb
Krypton	83-1						cps
Lead	206-1	24.30	24.54	24.67	24.50	0.78	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.03	23.37	23.25	23.21	0.75	ppb
Lead	208-1	23.53	23.90	23.87	23.77	0.85	ppb
Lithium	6-1				104		%
Magnesium	24-2	10378.03	10320.92	10549.27	10416.07	1.14	ppb
Manganese	55-2	468.89	475.41	468.77	471.02	0.81	ppb
Molybdenum	94-1	2.47	2.52	2.60	2.53	2.52	ppb
Molybdenum	95-1	1.15	1.19	1.23	1.19	3.32	ppb
Molybdenum	96-1	1.38	1.32	1.35	1.35	2.10	ppb
Molybdenum	97-1	1.16	1.15	1.23	1.18	4.00	ppb
Molybdenum	98-1	1.15	1.15	1.17	1.16	0.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	72.56	72.29	72.03	72.29	0.37	ppb
Phosphorus	31-2	563.83	605.29	620.64	596.59	4.93	ppb
Potassium	39-2	549.42	547.10	554.89	550.47	0.73	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				104		%
Scandium	45-2				104		%
Selenium	82-1	1.25	0.73	0.32	0.77	60.46	ppb
Selenium	77-2	19.29	28.01	25.07	24.13	18.40	ppb
Selenium	78-2	6.28	5.20	3.85	5.11	23.81	ppb
Silicon	28-1	5979.77	5852.21	5917.82	5916.60	1.08	ppb
Silver	107-1	0.33	0.35	0.35	0.34	3.22	ppb
Silver	109-1	0.34	0.35	0.35	0.34	0.61	ppb
Sodium	23-2	103.98	106.31	107.36	105.88	1.63	ppb
Strontium	86-1	50.12	50.18	51.43	50.58	1.46	ppb
Strontium	88-1	52.28	52.43	52.29	52.34	0.16	ppb
Sulfur	34-1	-2658.48	-2919.63	-3007.40	-2861.84		ppb
Terbium	159-1				102		%
Terbium	159-2				104		%
Thallium	203-1	0.19	0.19	0.20	0.20	1.09	ppb
Thallium	205-1	0.19	0.20	0.22	0.20	7.82	ppb
Tin	118-1	0.29	0.27	0.27	0.27	3.96	ppb
Titanium	47-1	21.12	21.16	21.12	21.13	0.11	ppb
Uranium	238-1	0.44	0.45	0.44	0.44	1.38	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	61.47	61.23	61.22	61.30	0.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	127.84	128.28	128.61	128.24	0.30	ppb
Zirconium	90-1	0.84	0.87	0.88	0.86	1.95	ppb
Zirconium	91-1	0.92	0.92	0.90	0.91	0.94	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4088.29	4056.27	4047.43	4064.00	0.53	ppb
Antimony	121-1	0.23	0.25	0.23	0.24	4.63	ppb
Arsenic	75-2	10.75	11.13	10.77	10.88	1.98	ppb
Barium	135-1	43.99	46.26	46.07	45.44	2.78	ppb
Barium	137-1	44.57	46.84	45.93	45.78	2.50	ppb
Beryllium	9-1	0.21	0.21	0.20	0.21	0.58	ppb
Bismuth	209-1				98		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.12	0.12	0.13	11.17	ppb
Cadmium	106-1	-2.73	-1.89	-1.50	-2.04		ppb
Cadmium	111-1	-0.18	-0.11	-0.08	-0.12		ppb
Calcium	43-1	1059.20	1092.68	1077.76	1076.55	1.56	ppb
Calcium	44-1	1048.35	1071.59	1065.31	1061.75	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.39	10.31	10.38	10.36	0.42	ppb
Cobalt	59-2	5.68	5.63	5.59	5.64	0.79	ppb
Copper	63-2	19.24	19.25	19.32	19.27	0.21	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				101		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	54-2	11981.51	11926.03	12125.16	12010.90	0.86	ppb
Iron	56-2	11839.08	11803.53	11976.29	11872.97	0.77	ppb
Iron	57-2	11519.84	11505.01	11570.92	11531.92	0.30	ppb
Krypton	83-1						cps
Lead	206-1	4.86	5.07	4.93	4.95	2.18	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.59	4.88	4.71	4.73	3.05	ppb
Lead	208-1	4.66	4.90	4.75	4.77	2.55	ppb
Lithium	6-1				102		%
Magnesium	24-2	2038.04	2053.97	2044.99	2045.67	0.39	ppb
Manganese	55-2	96.08	95.62	96.14	95.95	0.30	ppb
Molybdenum	94-1	0.54	0.57	0.52	0.54	4.73	ppb
Molybdenum	95-1	0.24	0.27	0.26	0.25	5.72	ppb
Molybdenum	96-1	0.26	0.31	0.32	0.30	10.04	ppb
Molybdenum	97-1	0.23	0.27	0.27	0.25	9.88	ppb
Molybdenum	98-1	0.25	0.25	0.26	0.25	3.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.36	14.41	14.84	14.54	1.83	ppb
Phosphorus	31-2	118.76	121.12	78.59	106.15	22.52	ppb
Potassium	39-2	112.53	114.39	113.05	113.33	0.85	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	-0.08	0.03	-0.17	-0.07		ppb
Selenium	77-2	6.01	4.01	8.72	6.24	37.83	ppb
Selenium	78-2	0.74	-0.03	1.33	0.68	100.87	ppb
Silicon	28-1	1125.10	1165.30	1132.87	1141.09	1.87	ppb
Silver	107-1	0.07	0.08	0.07	0.08	3.72	ppb
Silver	109-1	0.07	0.07	0.07	0.07	1.91	ppb
Sodium	23-2	34.86	33.66	33.41	33.98	2.29	ppb
Strontium	86-1	10.03	10.46	10.13	10.21	2.22	ppb
Strontium	88-1	10.02	10.44	10.13	10.20	2.10	ppb
Sulfur	34-1	-3094.55	-3014.84	-3060.19	-3056.53		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	0.06	0.06	0.06	0.06	2.83	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	3.68	ppb
Tin	118-1	0.05	0.04	0.03	0.04	22.72	ppb
Titanium	47-1	4.30	4.37	4.36	4.34	0.86	ppb
Uranium	238-1	0.09	0.09	0.08	0.09	3.06	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.45	12.30	12.40	12.38	0.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				103		%
Zinc	66-2	26.25	26.15	25.94	26.11	0.59	ppb
Zirconium	90-1	0.17	0.18	0.18	0.18	2.42	ppb
Zirconium	91-1	0.17	0.19	0.18	0.18	6.15	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20696.93	21067.87	21336.20	21033.67	1.53	ppb
Antimony	121-1	21.03	21.61	21.57	21.40	1.53	ppb
Arsenic	75-2	62.63	60.88	61.32	61.61	1.47	ppb
Barium	135-1	633.21	652.10	652.40	645.90	1.70	ppb
Barium	137-1	627.10	648.20	644.05	639.78	1.75	ppb
Beryllium	9-1	10.59	10.90	10.75	10.75	1.42	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	8.88	9.76	9.73	9.46	5.25	ppb
Cadmium	106-1	6.63	5.83	6.73	6.40	7.71	ppb
Cadmium	111-1	9.81	9.77	10.00	9.86	1.29	ppb
Calcium	43-1	6077.06	6271.07	6324.04	6224.06	2.09	ppb
Calcium	44-1	5839.38	6067.70	6076.28	5994.45	2.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	88.31	88.83	88.88	88.67	0.35	ppb
Cobalt	59-2	127.50	126.49	128.48	127.49	0.78	ppb
Copper	63-2	144.65	145.02	145.12	144.93	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				103		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	54-2	57808.76	57369.20	58191.12	57789.69	0.71	ppb
Iron	56-2	58352.58	58011.92	58533.84	58299.45	0.45	ppb
Iron	57-2	60308.26	58585.36	59269.14	59387.59	1.46	ppb
Krypton	83-1						cps
Lead	206-1	27.85	28.54	28.63	28.34	1.50	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	26.65	27.08	27.27	27.00	1.17	ppb
Lead	208-1	26.97	27.63	27.76	27.45	1.54	ppb
Lithium	6-1				105		%
Magnesium	24-2	10292.09	10271.42	10247.60	10270.37	0.22	ppb
Manganese	55-2	563.76	568.32	572.21	568.10	0.74	ppb
Molybdenum	94-1	87.11	91.72	91.99	90.27	3.04	ppb
Molybdenum	95-1	103.48	107.72	109.61	106.94	2.93	ppb
Molybdenum	96-1	100.57	105.73	105.08	103.79	2.70	ppb
Molybdenum	97-1	103.99	109.84	108.72	107.51	2.89	ppb
Molybdenum	98-1	108.53	111.81	113.01	111.12	2.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	170.47	170.81	172.37	171.22	0.59	ppb
Phosphorus	31-2	628.93	608.67	611.49	616.36	1.78	ppb
Potassium	39-2	557.31	562.12	573.02	564.15	1.43	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	3.85	3.92	4.29	4.02	5.85	ppb
Selenium	77-2	29.37	29.05	20.25	26.22	19.73	ppb
Selenium	78-2	8.85	8.18	7.72	8.25	6.88	ppb
Silicon	28-1	5768.00	6168.46	6067.63	6001.36	3.47	ppb
Silver	107-1	9.80	10.24	10.21	10.08	2.42	ppb
Silver	109-1	9.92	10.29	10.30	10.17	2.17	ppb
Sodium	23-2	100.90	105.48	106.94	104.44	3.02	ppb
Strontium	86-1	1950.63	1992.35	1968.83	1970.60	1.06	ppb
Strontium	88-1	1945.37	1991.38	1988.71	1975.15	1.31	ppb
Sulfur	34-1	-3394.52	-3371.81	-3390.67	-3385.67		ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	9.35	9.63	9.74	9.57	2.06	ppb
Thallium	205-1	9.55	9.66	9.69	9.63	0.76	ppb
Tin	118-1	0.43	0.25	0.25	0.31	33.92	ppb
Titanium	47-1	19.95	20.62	20.89	20.48	2.35	ppb
Uranium	238-1	0.44	0.45	0.45	0.44	1.25	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	157.54	156.39	158.93	157.62	0.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	227.00	230.02	226.95	227.99	0.77	ppb
Zirconium	90-1	0.81	0.85	0.87	0.84	3.80	ppb
Zirconium	91-1	0.84	0.87	0.88	0.86	2.47	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	26.59	26.12	27.38	26.70	2.39	ppb
Antimony	121-1	0.01	0.00	0.00	0.00	37.02	ppb
Arsenic	75-2	-0.02	0.00	-0.02	-0.01		ppb
Barium	135-1	0.09	0.07	0.07	0.08	13.21	ppb
Barium	137-1	0.06	0.04	0.05	0.05	19.91	ppb
Beryllium	9-1	0.01	0.02	0.01	0.01	14.37	ppb
Bismuth	209-1				98		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.01	0.02	0.01	250.42	ppb
Cadmium	106-1	-1.86	-2.07	-1.73	-1.89		ppb
Cadmium	111-1	-0.14	-0.16	-0.13	-0.14		ppb
Calcium	43-1	-3.05	-3.57	-3.33	-3.32		ppb
Calcium	44-1	-1.04	-0.55	-2.13	-1.24		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.15	-0.11	-0.10	-0.12		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	13.72	ppb
Copper	63-2	0.29	0.31	0.33	0.31	7.14	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				103		%
Indium	115-1				101		%
Indium	115-2				102		%
Iron	54-2	3.69	3.64	2.85	3.39	13.79	ppb
Iron	56-2	4.02	3.80	2.97	3.60	15.44	ppb
Iron	57-2	3.90	2.91	3.62	3.48	14.60	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.07	0.08	11.77	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.06	0.07	17.37	ppb
Lead	208-1	0.08	0.08	0.07	0.08	12.15	ppb
Lithium	6-1				101		%
Magnesium	24-2	-9.87	-10.18	-10.10	-10.05		ppb
Manganese	55-2	0.05	0.03	0.03	0.04	30.59	ppb
Molybdenum	94-1	0.01	0.02	0.02	0.02	21.25	ppb
Molybdenum	95-1	0.02	0.02	0.00	0.02	62.88	ppb
Molybdenum	96-1	0.02	0.02	0.02	0.02	4.52	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	8.23	ppb
Molybdenum	98-1	0.02	0.01	0.02	0.02	23.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	0.09	0.07	0.06	85.08	ppb
Phosphorus	31-2	-23.04	-19.27	-19.36	-20.55		ppb
Potassium	39-2	-0.40	1.72	3.90	1.74	123.63	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	-0.29	-0.47	0.10	-0.22		ppb
Selenium	77-2	0.00	0.00	0.66	0.22	173.21	ppb
Selenium	78-2	-0.62	-0.42	1.11	0.03	3765.59	ppb
Silicon	28-1	0.48	1.88	1.06	1.14	61.75	ppb
Silver	107-1	0.02	0.02	0.01	0.02	12.15	ppb
Silver	109-1	0.02	0.02	0.01	0.02	12.00	ppb
Sodium	23-2	22.19	21.84	22.03	22.02	0.81	ppb
Strontium	86-1	0.17	0.17	0.14	0.16	12.30	ppb
Strontium	88-1	0.17	0.17	0.12	0.15	17.07	ppb
Sulfur	34-1	-2979.77	-2791.66	-2897.63	-2889.69		ppb
Terbium	159-1				101		%
Terbium	159-2				104		%
Thallium	203-1	0.03	0.03	0.02	0.03	18.37	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	7.33	ppb
Tin	118-1	0.00	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.03	0.00	0.02	0.02	74.46	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.02	0.01	16.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	0.02	-0.02	0.01	0.00	2177.62	ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	64.16	ppb
Zirconium	91-1	0.00	0.00	0.01	0.00	148.46	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43.47	40.11	41.72	41.77	4.03	ppb
Antimony	121-1	4.22	4.33	4.23	4.26	1.38	ppb
Arsenic	75-2	2.26	2.17	1.86	2.10	9.85	ppb
Barium	135-1	20.58	20.92	20.72	20.74	0.82	ppb
Barium	137-1	20.91	21.01	20.64	20.85	0.94	ppb
Beryllium	9-1	2.21	2.27	2.23	2.23	1.46	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.97	2.21	2.36	2.18	9.08	ppb
Cadmium	106-1	-0.01	-0.11	0.24	0.04	452.32	ppb
Cadmium	111-1	2.02	2.05	1.99	2.02	1.51	ppb
Calcium	43-1	986.49	1015.42	1019.26	1007.06	1.78	ppb
Calcium	44-1	975.74	1008.37	1007.26	997.12	1.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.05	3.98	4.11	4.05	1.53	ppb
Cobalt	59-2	2.24	2.25	2.19	2.22	1.44	ppb
Copper	63-2	5.15	5.09	5.06	5.10	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				101		%
Holmium	165-2				102		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	431.06	429.70	422.70	427.82	1.05	ppb
Iron	56-2	430.76	427.50	423.71	427.32	0.83	ppb
Iron	57-2	425.38	432.03	426.86	428.09	0.82	ppb
Krypton	83-1						cps
Lead	206-1	1.98	2.15	2.05	2.06	4.06	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.07	2.13	2.05	2.08	2.00	ppb
Lead	208-1	2.01	2.11	2.05	2.06	2.65	ppb
Lithium	6-1				99		%
Magnesium	24-2	975.93	995.80	977.62	983.12	1.12	ppb
Manganese	55-2	2.13	2.22	2.13	2.16	2.39	ppb
Molybdenum	94-1	11.86	12.51	12.52	12.30	3.08	ppb
Molybdenum	95-1	9.98	10.23	10.36	10.19	1.89	ppb
Molybdenum	96-1	10.12	10.43	10.44	10.33	1.73	ppb
Molybdenum	97-1	10.15	10.38	10.56	10.36	1.96	ppb
Molybdenum	98-1	9.81	10.26	10.28	10.11	2.63	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.45	2.16	2.34	2.32	6.26	ppb
Phosphorus	31-2	42.63	35.31	14.81	30.92	46.64	ppb
Potassium	39-2	1012.62	1007.92	1011.62	1010.72	0.24	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	10.34	10.09	10.43	10.29	1.71	ppb
Selenium	77-2	12.77	9.49	11.64	11.30	14.78	ppb
Selenium	78-2	10.52	8.24	12.32	10.36	19.71	ppb
Silicon	28-1	20.82	21.61	20.92	21.12	2.03	ppb
Silver	107-1	2.10	2.12	2.11	2.11	0.40	ppb
Silver	109-1	2.12	2.13	2.15	2.13	0.72	ppb
Sodium	23-2	1038.67	1040.72	1027.23	1035.54	0.70	ppb
Strontium	86-1	1.99	2.08	2.17	2.08	4.36	ppb
Strontium	88-1	2.02	2.11	2.08	2.07	2.17	ppb
Sulfur	34-1	-2439.18	-2097.95	-2159.84	-2232.32		ppb
Terbium	159-1				102		%
Terbium	159-2				102		%
Thallium	203-1	1.95	2.11	2.04	2.04	3.84	ppb
Thallium	205-1	2.01	2.12	2.04	2.06	2.77	ppb
Tin	118-1	10.65	10.78	10.67	10.70	0.63	ppb
Titanium	47-1	2.47	2.58	2.53	2.53	2.09	ppb
Uranium	238-1	1.85	1.94	1.88	1.89	2.56	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.65	10.84	10.69	10.73	0.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				102		%
Zinc	66-2	10.89	10.82	10.97	10.90	0.69	ppb
Zirconium	90-1	1.98	2.03	2.07	2.03	2.08	ppb
Zirconium	91-1	2.00	1.96	2.05	2.01	2.07	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.28	8.63	8.89	8.60	3.54	ppb
Antimony	121-1	0.05	0.05	0.05	0.05	5.13	ppb
Arsenic	75-2	0.52	0.51	0.34	0.46	21.44	ppb
Barium	135-1	18.75	19.15	19.39	19.10	1.70	ppb
Barium	137-1	18.83	19.17	19.43	19.14	1.58	ppb
Beryllium	9-1	0.01	0.02	0.01	0.01	45.77	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.02	0.07	0.05	55.72	ppb
Cadmium	106-1	-1.34	-0.67	-0.42	-0.81		ppb
Cadmium	111-1	-0.10	-0.05	-0.04	-0.06		ppb
Calcium	43-1	354348.43	361669.50	362481.30	359499.74	1.25	ppb
Calcium	44-1	353147.97	355959.52	354341.87	354483.12	0.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.06	0.03	0.04	46.47	ppb
Cobalt	59-2	0.02	0.03	0.02	0.03	10.75	ppb
Copper	63-2	0.03	0.09	0.02	0.05	84.45	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				99		%
Holmium	165-2				97		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	54-2	812.71	819.89	809.40	814.00	0.66	ppb
Iron	56-2	848.19	853.95	859.68	853.94	0.67	ppb
Iron	57-2	816.92	837.39	821.21	825.17	1.31	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.08	0.09	6.82	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.09	0.08	0.09	11.77	ppb
Lead	208-1	0.09	0.09	0.08	0.09	9.00	ppb
Lithium	6-1				95		%
Magnesium	24-2	115043.09	114531.06	115602.28	115058.81	0.47	ppb
Manganese	55-2	25.97	26.05	26.38	26.14	0.83	ppb
Molybdenum	94-1	0.46	0.42	0.42	0.43	5.94	ppb
Molybdenum	95-1	0.36	0.33	0.38	0.36	6.11	ppb
Molybdenum	96-1	0.36	0.36	0.36	0.36	0.50	ppb
Molybdenum	97-1	0.35	0.34	0.36	0.35	2.41	ppb
Molybdenum	98-1	0.34	0.33	0.34	0.34	1.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.01	0.02	0.02	154.66	ppb
Phosphorus	31-2	-6.76	-23.00	-17.60	-15.79		ppb
Potassium	39-2	3521.81	3508.79	3474.41	3501.67	0.70	ppb
Rhodium	103-1				91		%
Rhodium	103-2				91		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	0.04	0.24	0.38	0.22	76.22	ppb
Selenium	77-2	0.73	0.00	0.74	0.49	86.61	ppb
Selenium	78-2	-0.58	-0.38	-0.36	-0.44		ppb
Silicon	28-1	6119.83	6154.77	6192.01	6155.54	0.59	ppb
Silver	107-1	0.03	0.03	0.02	0.03	16.24	ppb
Silver	109-1	0.03	0.02	0.02	0.02	19.36	ppb
Sodium	23-2	31292.79	30865.94	31448.92	31202.55	0.97	ppb
Strontium	86-1	14544.33	14150.17	14563.91	14419.47	1.62	ppb
Strontium	88-1	14276.86	14191.15	14523.86	14330.62	1.21	ppb
Sulfur	34-1	409893.45	414056.37	416436.81	413462.21	0.80	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.02	0.02	0.02	8.74	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	11.19	ppb
Tin	118-1	0.81	0.80	0.87	0.83	4.21	ppb
Titanium	47-1	0.52	0.58	0.60	0.56	7.20	ppb
Uranium	238-1	0.22	0.22	0.22	0.22	1.92	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.11	0.11	0.12	0.11	3.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				95		%
Zinc	66-2	0.68	0.56	0.66	0.63	10.34	ppb
Zirconium	90-1	0.09	0.08	0.08	0.09	7.98	ppb
Zirconium	91-1	0.11	0.09	0.08	0.09	14.88	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.09	5.31	5.64	5.68	6.86	ppb
Antimony	121-1	0.00	0.01	0.00	0.00	31.50	ppb
Arsenic	75-2	0.06	0.04	0.02	0.04	48.27	ppb
Barium	135-1	8.90	9.51	8.96	9.12	3.68	ppb
Barium	137-1	9.08	9.71	9.11	9.30	3.84	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	7.17	ppb
Bismuth	209-1				88		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.04	0.05	0.03	91.45	ppb
Cadmium	106-1	-0.67	-0.72	-0.74	-0.71		ppb
Cadmium	111-1	-0.05	-0.05	-0.06	-0.05		ppb
Calcium	43-1	361896.98	377576.71	344317.25	361263.65	4.61	ppb
Calcium	44-1	350311.61	372677.51	338664.11	353884.41	4.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.04	0.06	0.03	93.73	ppb
Cobalt	59-2	0.04	0.04	0.04	0.04	1.68	ppb
Copper	63-2	0.35	0.37	0.38	0.37	4.79	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				96		%
Indium	115-1				91		%
Indium	115-2				87		%
Iron	54-2	28.89	24.15	25.18	26.08	9.56	ppb
Iron	56-2	25.66	25.91	25.68	25.75	0.53	ppb
Iron	57-2	33.02	35.35	34.01	34.13	3.42	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.10	0.10	0.10	4.04	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.08	0.09	10.04	ppb
Lead	208-1	0.10	0.09	0.09	0.09	6.00	ppb
Lithium	6-1				93		%
Magnesium	24-2	119712.85	115019.88	116297.92	117010.22	2.07	ppb
Manganese	55-2	8.18	8.00	8.25	8.14	1.59	ppb
Molybdenum	94-1	0.09	0.09	0.09	0.09	1.40	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	4.31	ppb
Molybdenum	96-1	0.04	0.03	0.03	0.03	15.78	ppb
Molybdenum	97-1	0.02	0.03	0.02	0.02	20.38	ppb
Molybdenum	98-1	0.02	0.02	0.03	0.02	15.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.10	0.04	0.12	0.09	44.63	ppb
Phosphorus	31-2	-13.71	-12.37	-16.98	-14.35		ppb
Potassium	39-2	4256.97	4195.07	4204.30	4218.78	0.79	ppb
Rhodium	103-1				86		%
Rhodium	103-2				88		%
Scandium	45-1				93		%
Scandium	45-2				93		%
Selenium	82-1	0.13	0.39	0.62	0.38	63.81	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.30	-0.79	-0.13	-0.21		ppb
Silicon	28-1	7218.73	7731.61	6977.14	7309.16	5.27	ppb
Silver	107-1	0.03	0.03	0.02	0.03	4.82	ppb
Silver	109-1	0.02	0.02	0.02	0.02	13.40	ppb
Sodium	23-2	125117.26	121055.88	122603.57	122925.57	1.67	ppb
Strontium	86-1	15475.16	16171.01	15096.05	15580.74	3.50	ppb
Strontium	88-1	15075.34	15842.73	14754.92	15224.33	3.67	ppb
Sulfur	34-1	364364.01	389199.43	348676.51	367413.32	5.56	ppb
Terbium	159-1				94		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.01	0.01	0.01	43.68	ppb
Thallium	205-1	0.01	0.02	0.01	0.02	18.74	ppb
Tin	118-1	0.42	0.49	0.43	0.45	9.18	ppb
Titanium	47-1	0.91	1.03	0.87	0.94	8.84	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	8.18	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.04	0.04	0.05	0.04	15.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				93		%
Zinc	66-2	0.79	0.93	0.79	0.84	9.52	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	4.73	ppb
Zirconium	91-1	0.04	0.05	0.04	0.04	6.44	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1502.86	1485.73	1545.38	1511.33	2.03	ppb
Antimony	121-1	0.30	0.29	0.29	0.30	2.30	ppb
Arsenic	75-2	0.25	0.19	0.28	0.24	18.90	ppb
Barium	135-1	15.06	15.44	15.26	15.25	1.26	ppb
Barium	137-1	15.12	15.40	15.70	15.41	1.89	ppb
Beryllium	9-1	0.03	0.02	0.03	0.03	15.07	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.07	0.01	0.03	103.28	ppb
Cadmium	106-1	-0.80	-1.53	-0.33	-0.89		ppb
Cadmium	111-1	-0.05	-0.11	-0.01	-0.06		ppb
Calcium	43-1	266270.10	262634.92	273288.49	267397.84	2.03	ppb
Calcium	44-1	258438.43	256145.23	262185.74	258923.13	1.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.11	0.09	0.10	10.82	ppb
Cobalt	59-2	0.06	0.06	0.06	0.06	7.07	ppb
Copper	63-2	2.11	2.10	2.29	2.17	4.96	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				101		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	54-2	647.65	654.10	680.62	660.79	2.64	ppb
Iron	56-2	690.47	691.61	701.49	694.52	0.87	ppb
Iron	57-2	661.85	657.67	693.84	671.12	2.95	ppb
Krypton	83-1						cps
Lead	206-1	0.49	0.50	0.47	0.49	3.50	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.47	0.48	0.52	0.49	5.61	ppb
Lead	208-1	0.48	0.48	0.49	0.48	1.83	ppb
Lithium	6-1				96		%
Magnesium	24-2	75126.59	73720.29	77514.81	75453.90	2.54	ppb
Manganese	55-2	58.65	57.03	59.36	58.35	2.04	ppb
Molybdenum	94-1	0.96	0.92	0.97	0.95	2.62	ppb
Molybdenum	95-1	0.97	1.02	1.02	1.00	2.53	ppb
Molybdenum	96-1	0.98	1.02	1.01	1.00	2.14	ppb
Molybdenum	97-1	0.97	1.01	1.06	1.02	4.16	ppb
Molybdenum	98-1	1.01	1.01	1.01	1.01	0.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.25	0.24	0.34	0.28	18.65	ppb
Phosphorus	31-2	2.61	-16.11	-8.86	-7.45		ppb
Potassium	39-2	3771.22	3723.84	3891.49	3795.52	2.28	ppb
Rhodium	103-1				92		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				98		%
Selenium	82-1	0.23	0.20	0.59	0.34	63.02	ppb
Selenium	77-2	0.00	2.10	0.72	0.94	113.63	ppb
Selenium	78-2	-0.21	-0.60	-0.38	-0.40		ppb
Silicon	28-1	6825.66	6873.63	6908.89	6869.39	0.61	ppb
Silver	107-1	0.08	0.07	0.08	0.07	2.77	ppb
Silver	109-1	0.06	0.07	0.06	0.06	3.09	ppb
Sodium	23-2	29264.45	29692.39	30424.00	29793.61	1.97	ppb
Strontium	86-1	14645.50	14917.89	15262.72	14942.04	2.07	ppb
Strontium	88-1	14879.97	14926.24	15284.68	15030.29	1.47	ppb
Sulfur	34-1	263997.89	264463.05	266054.09	264838.34	0.41	ppb
Terbium	159-1				99		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.02	0.01	0.01	30.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	18.27	ppb
Tin	118-1	0.60	0.64	0.66	0.64	4.53	ppb
Titanium	47-1	0.86	0.93	0.99	0.93	6.67	ppb
Uranium	238-1	0.81	0.83	0.82	0.82	1.51	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.22	0.21	0.21	0.21	1.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				99		%
Zinc	66-2	70.56	72.12	73.66	72.11	2.15	ppb
Zirconium	90-1	0.06	0.07	0.07	0.07	9.03	ppb
Zirconium	91-1	0.06	0.06	0.09	0.07	23.81	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.44	5.06	3.81	4.44	14.17	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.43	ppb
Arsenic	75-2	0.20	0.26	0.28	0.25	16.97	ppb
Barium	135-1	16.21	15.97	16.09	16.09	0.77	ppb
Barium	137-1	16.00	15.93	16.05	16.00	0.38	ppb
Beryllium	9-1	0.02	0.02	0.03	0.02	31.03	ppb
Bismuth	209-1				95		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.05	0.04	0.03	40.15	ppb
Cadmium	106-1	-1.14	-0.56	-1.09	-0.93		ppb
Cadmium	111-1	-0.09	-0.05	-0.08	-0.07		ppb
Calcium	43-1	277067.11	263940.95	271213.49	270740.52	2.43	ppb
Calcium	44-1	275597.81	255614.61	265286.28	265499.56	3.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.32	0.28	0.30	0.30	7.22	ppb
Cobalt	59-2	0.10	0.09	0.09	0.10	6.92	ppb
Copper	63-2	0.23	0.30	0.28	0.27	12.59	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				100		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	586.17	583.64	572.85	580.89	1.22	ppb
Iron	56-2	613.49	607.90	584.05	601.81	2.60	ppb
Iron	57-2	587.66	577.25	575.87	580.26	1.11	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.11	0.10	0.11	7.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.11	0.12	0.11	3.25	ppb
Lead	208-1	0.11	0.11	0.11	0.11	2.15	ppb
Lithium	6-1				100		%
Magnesium	24-2	76721.58	75916.61	74138.58	75592.26	1.75	ppb
Manganese	55-2	64.29	62.83	62.10	63.07	1.77	ppb
Molybdenum	94-1	0.90	0.85	0.88	0.88	2.72	ppb
Molybdenum	95-1	1.00	1.03	1.05	1.03	2.61	ppb
Molybdenum	96-1	1.01	0.97	1.03	1.00	3.18	ppb
Molybdenum	97-1	1.00	1.04	1.03	1.02	2.30	ppb
Molybdenum	98-1	1.03	1.00	1.03	1.02	1.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.45	0.33	0.37	0.39	15.47	ppb
Phosphorus	31-2	-20.20	-19.73	-15.13	-18.36		ppb
Potassium	39-2	3863.17	3764.88	3768.95	3799.00	1.46	ppb
Rhodium	103-1				95		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.16	-0.03	0.05	0.06	154.71	ppb
Selenium	77-2	0.69	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.60	-0.39	-0.59	-0.53		ppb
Silicon	28-1	7192.10	6806.35	6904.78	6967.74	2.88	ppb
Silver	107-1	0.02	0.02	0.02	0.02	10.34	ppb
Silver	109-1	0.01	0.01	0.01	0.01	9.64	ppb
Sodium	23-2	30955.18	30058.24	29735.89	30249.77	2.09	ppb
Strontium	86-1	15066.90	14756.97	15011.45	14945.11	1.11	ppb
Strontium	88-1	14897.39	14604.18	14815.48	14772.35	1.02	ppb
Sulfur	34-1	272351.63	263176.13	268027.09	267851.62	1.71	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.01	0.01	13.88	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.44	ppb
Tin	118-1	0.53	0.51	0.51	0.52	2.13	ppb
Titanium	47-1	0.57	0.55	0.61	0.58	4.71	ppb
Uranium	238-1	0.84	0.83	0.86	0.84	1.64	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.04	0.03	20.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	0.68	0.69	0.60	0.66	7.79	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	1.53	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	9.02	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.80	11.16	12.76	11.91	6.75	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	9.16	ppb
Arsenic	75-2	0.39	0.28	0.37	0.35	17.36	ppb
Barium	135-1	44.78	46.11	48.30	46.40	3.83	ppb
Barium	137-1	44.87	46.65	48.29	46.60	3.68	ppb
Beryllium	9-1	0.02	0.03	0.03	0.03	13.31	ppb
Bismuth	209-1				89		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.20	0.15	0.16	0.17	14.76	ppb
Cadmium	106-1	-0.44	-0.29	-1.04	-0.59		ppb
Cadmium	111-1	-0.03	-0.01	-0.07	-0.04		ppb
Calcium	43-1	450766.88	465166.41	492798.20	469577.16	4.55	ppb
Calcium	44-1	443562.27	452956.50	479849.94	458789.57	4.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.28	0.22	0.28	0.26	13.08	ppb
Cobalt	59-2	0.95	0.96	0.98	0.97	1.47	ppb
Copper	63-2	0.54	0.53	0.67	0.58	13.07	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				98		%
Holmium	165-2				99		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	54-2	835.12	839.68	862.67	845.82	1.75	ppb
Iron	56-2	884.29	886.19	881.43	883.97	0.27	ppb
Iron	57-2	851.86	846.12	884.04	860.68	2.37	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.15	0.15	0.14	5.55	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.15	0.16	0.14	15.55	ppb
Lead	208-1	0.13	0.14	0.16	0.15	8.64	ppb
Lithium	6-1				97		%
Magnesium	24-2	98721.32	101006.75	100482.44	100070.17	1.20	ppb
Manganese	55-2	26.04	26.39	26.78	26.40	1.39	ppb
Molybdenum	94-1	9.91	10.27	11.05	10.41	5.59	ppb
Molybdenum	95-1	11.73	12.01	12.71	12.15	4.15	ppb
Molybdenum	96-1	11.57	11.64	12.54	11.91	4.54	ppb
Molybdenum	97-1	12.06	12.18	12.77	12.34	3.11	ppb
Molybdenum	98-1	11.66	11.75	12.84	12.08	5.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.00	4.14	4.21	4.12	2.64	ppb
Phosphorus	31-2	-14.32	-18.66	-18.03	-17.00		ppb
Potassium	39-2	5679.13	5761.26	5874.36	5771.58	1.70	ppb
Rhodium	103-1				89		%
Rhodium	103-2				92		%
Scandium	45-1				97		%
Scandium	45-2				98		%
Selenium	82-1	0.57	0.68	0.34	0.53	32.43	ppb
Selenium	77-2	0.00	0.69	1.42	0.71	100.87	ppb
Selenium	78-2	-0.80	-0.40	-0.18	-0.46		ppb
Silicon	28-1	7041.21	7292.70	7564.74	7299.55	3.59	ppb
Silver	107-1	0.03	0.03	0.04	0.03	16.95	ppb
Silver	109-1	0.02	0.02	0.03	0.02	30.73	ppb
Sodium	23-2	177926.40	180299.00	182348.77	180191.39	1.23	ppb
Strontium	86-1	14327.91	14570.42	15496.92	14798.42	4.17	ppb
Strontium	88-1	14164.35	14460.74	15440.42	14688.50	4.55	ppb
Sulfur	34-1	369214.12	382100.41	400029.21	383781.25	4.03	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.02	0.03	0.03	11.89	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.22	ppb
Tin	118-1	0.72	0.72	0.76	0.73	3.03	ppb
Titanium	47-1	0.69	0.70	0.75	0.71	4.21	ppb
Uranium	238-1	0.07	0.08	0.08	0.08	5.35	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.25	0.22	0.23	0.23	6.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	0.87	0.72	0.81	0.80	9.38	ppb
Zirconium	90-1	0.15	0.15	0.18	0.16	8.69	ppb
Zirconium	91-1	0.15	0.15	0.18	0.16	9.96	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.00	6.49	7.86	6.78	14.18	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	8.27	ppb
Arsenic	75-2	5.12	4.83	5.01	4.99	2.88	ppb
Barium	135-1	51.18	49.96	51.56	50.90	1.65	ppb
Barium	137-1	51.35	50.48	51.00	50.94	0.86	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	13.32	ppb
Bismuth	209-1				93		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.02	0.06	0.06	77.61	ppb
Cadmium	106-1	0.56	-0.09	-0.50	-0.01		ppb
Cadmium	111-1	0.04	0.00	-0.03	0.01	668.06	ppb
Calcium	43-1	397763.00	386915.03	386606.05	390428.03	1.63	ppb
Calcium	44-1	386637.58	377042.88	376548.36	380076.28	1.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.19	1.21	1.25	1.22	2.77	ppb
Cobalt	59-2	0.12	0.13	0.13	0.13	2.64	ppb
Copper	63-2	0.27	0.26	0.33	0.29	14.22	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				95		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	5212.19	5341.09	5435.67	5329.65	2.10	ppb
Iron	56-2	5411.67	5472.50	5705.18	5529.78	2.80	ppb
Iron	57-2	5266.19	5326.93	5466.32	5353.15	1.92	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.16	0.17	0.16	4.63	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.17	0.20	0.15	0.18	12.75	ppb
Lead	208-1	0.18	0.18	0.17	0.17	3.31	ppb
Lithium	6-1				100		%
Magnesium	24-2	117567.13	118859.53	120761.93	119062.86	1.35	ppb
Manganese	55-2	481.31	486.02	502.32	489.88	2.25	ppb
Molybdenum	94-1	2.43	2.20	2.28	2.30	5.12	ppb
Molybdenum	95-1	2.60	2.52	2.55	2.56	1.64	ppb
Molybdenum	96-1	2.48	2.42	2.52	2.47	2.06	ppb
Molybdenum	97-1	2.62	2.50	2.64	2.59	2.90	ppb
Molybdenum	98-1	2.52	2.44	2.51	2.49	1.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.69	0.68	0.74	0.70	4.17	ppb
Phosphorus	31-2	1.55	5.58	-3.16	1.32	330.53	ppb
Potassium	39-2	15152.52	15189.65	15503.57	15281.92	1.26	ppb
Rhodium	103-1				94		%
Rhodium	103-2				90		%
Scandium	45-1				101		%
Scandium	45-2				94		%
Selenium	82-1	0.28	0.74	0.29	0.44	59.91	ppb
Selenium	77-2	0.00	0.00	0.76	0.25	173.21	ppb
Selenium	78-2	-0.80	-1.01	-0.56	-0.79		ppb
Silicon	28-1	7511.85	7372.77	7303.30	7395.97	1.44	ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.48	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.85	ppb
Sodium	23-2	87338.45	87318.25	89129.09	87928.59	1.18	ppb
Strontium	86-1	11813.96	11416.55	11707.96	11646.16	1.77	ppb
Strontium	88-1	11717.32	11337.38	11561.03	11538.58	1.65	ppb
Sulfur	34-1	489838.21	472084.12	478056.36	479992.90	1.88	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.02	0.01	0.01	0.01	22.32	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	14.25	ppb
Tin	118-1	0.47	0.49	0.48	0.48	1.97	ppb
Titanium	47-1	0.73	0.64	0.64	0.67	7.28	ppb
Uranium	238-1	0.52	0.51	0.51	0.51	0.71	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.20	0.19	0.21	0.20	5.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				94		%
Zinc	66-2	0.64	0.68	0.72	0.68	5.54	ppb
Zirconium	90-1	0.10	0.10	0.11	0.10	1.49	ppb
Zirconium	91-1	0.12	0.11	0.11	0.11	4.61	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	25.74	25.87	22.01	24.54	8.94	ppb
Antimony	121-1	0.02	0.02	0.03	0.02	13.80	ppb
Arsenic	75-2	0.10	0.07	0.05	0.07	39.60	ppb
Barium	135-1	11.00	11.17	11.39	11.19	1.74	ppb
Barium	137-1	11.13	11.09	11.55	11.26	2.28	ppb
Beryllium	9-1	0.02	0.02	0.01	0.02	27.43	ppb
Bismuth	209-1				91		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	0.13	0.06	94.77	ppb
Cadmium	106-1	-0.05	0.22	0.11	0.09	140.57	ppb
Cadmium	111-1	0.00	0.02	0.01	0.01	66.55	ppb
Calcium	43-1	368965.00	366617.35	394815.79	376799.38	4.15	ppb
Calcium	44-1	369541.63	356710.96	383130.36	369794.31	3.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.32	0.31	0.31	0.31	1.94	ppb
Cobalt	59-2	0.05	0.05	0.05	0.05	3.52	ppb
Copper	63-2	0.33	0.25	0.26	0.28	14.57	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				100		%
Holmium	165-2				94		%
Indium	115-1				96		%
Indium	115-2				87		%
Iron	54-2	3154.14	2926.03	2850.21	2976.80	5.31	ppb
Iron	56-2	3302.21	2993.65	2977.45	3091.10	5.92	ppb
Iron	57-2	3170.38	2909.18	2854.36	2977.98	5.67	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.11	0.11	0.11	6.61	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.11	0.12	0.12	2.19	ppb
Lead	208-1	0.12	0.11	0.12	0.12	4.60	ppb
Lithium	6-1				97		%
Magnesium	24-2	115282.40	105841.20	104549.65	108557.75	5.40	ppb
Manganese	55-2	93.61	83.90	84.47	87.33	6.24	ppb
Molybdenum	94-1	0.94	0.95	1.00	0.96	3.30	ppb
Molybdenum	95-1	0.97	0.94	1.01	0.97	3.92	ppb
Molybdenum	96-1	0.97	0.93	0.97	0.96	2.31	ppb
Molybdenum	97-1	1.01	0.95	0.99	0.98	3.08	ppb
Molybdenum	98-1	0.95	0.94	1.02	0.97	4.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.36	0.28	0.29	0.31	14.15	ppb
Phosphorus	31-2	1.05	-10.10	-15.97	-8.34		ppb
Potassium	39-2	4093.11	3762.57	3700.71	3852.13	5.48	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				97		%
Scandium	45-2				92		%
Selenium	82-1	0.37	0.26	0.67	0.43	48.76	ppb
Selenium	77-2	0.00	0.00	0.72	0.24	173.21	ppb
Selenium	78-2	-0.32	-0.17	0.05	-0.15		ppb
Silicon	28-1	6594.93	6679.23	6871.63	6715.26	2.11	ppb
Silver	107-1	0.01	0.02	0.02	0.02	6.04	ppb
Silver	109-1	0.01	0.01	0.01	0.01	24.76	ppb
Sodium	23-2	40935.55	37393.08	36462.56	38263.73	6.17	ppb
Strontium	86-1	12615.00	12417.74	13228.07	12753.60	3.31	ppb
Strontium	88-1	12491.14	12283.12	13096.15	12623.47	3.35	ppb
Sulfur	34-1	410944.05	408284.71	431965.58	417064.78	3.11	ppb
Terbium	159-1				99		%
Terbium	159-2				94		%
Thallium	203-1	0.01	0.01	0.01	0.01	8.83	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.11	ppb
Tin	118-1	0.55	0.51	0.57	0.54	5.57	ppb
Titanium	47-1	1.00	1.01	1.13	1.05	7.19	ppb
Uranium	238-1	0.35	0.34	0.35	0.35	1.84	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.15	0.16	0.12	0.14	13.42	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				93		%
Zinc	66-2	0.66	0.71	0.53	0.63	14.79	ppb
Zirconium	90-1	0.07	0.07	0.08	0.07	6.31	ppb
Zirconium	91-1	0.07	0.07	0.07	0.07	5.06	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.00	8.31	8.97	8.42	5.89	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.38	ppb
Arsenic	75-2	0.11	0.14	0.09	0.11	20.76	ppb
Barium	135-1	17.43	15.26	16.42	16.37	6.63	ppb
Barium	137-1	17.57	15.33	16.34	16.41	6.84	ppb
Beryllium	9-1	0.03	0.02	0.02	0.02	19.83	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.02	0.08	0.06	51.03	ppb
Cadmium	106-1	0.25	0.46	-0.12	0.20	149.25	ppb
Cadmium	111-1	0.02	0.04	-0.01	0.01	159.66	ppb
Calcium	43-1	379305.79	333520.32	352646.36	355157.49	6.47	ppb
Calcium	44-1	373086.54	330786.37	343594.49	349155.80	6.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.67	0.70	0.68	0.68	2.74	ppb
Cobalt	59-2	0.05	0.06	0.05	0.05	15.27	ppb
Copper	63-2	13.96	14.20	13.87	14.01	1.20	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				98		%
Indium	115-1				95		%
Indium	115-2				93		%
Iron	54-2	1522.86	1523.89	1518.24	1521.66	0.20	ppb
Iron	56-2	1567.11	1590.35	1569.53	1575.66	0.81	ppb
Iron	57-2	1514.12	1510.92	1527.59	1517.54	0.58	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.09	0.11	0.11	26.25	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.10	0.12	0.11	11.90	ppb
Lead	208-1	0.13	0.10	0.11	0.11	16.58	ppb
Lithium	6-1				97		%
Magnesium	24-2	91040.28	91624.61	91030.74	91231.88	0.37	ppb
Manganese	55-2	45.67	45.81	45.91	45.79	0.27	ppb
Molybdenum	94-1	0.63	0.53	0.60	0.58	8.68	ppb
Molybdenum	95-1	0.64	0.55	0.55	0.58	8.30	ppb
Molybdenum	96-1	0.60	0.51	0.58	0.57	8.32	ppb
Molybdenum	97-1	0.64	0.54	0.59	0.59	8.95	ppb
Molybdenum	98-1	0.61	0.54	0.57	0.57	6.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.15	2.10	2.11	2.12	1.14	ppb
Phosphorus	31-2	-4.25	-7.57	-18.73	-10.18		ppb
Potassium	39-2	5914.86	5938.56	5961.26	5938.23	0.39	ppb
Rhodium	103-1				90		%
Rhodium	103-2				94		%
Scandium	45-1				96		%
Scandium	45-2				98		%
Selenium	82-1	0.26	0.17	0.63	0.35	68.06	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.03	-0.18	-0.19	-0.11		ppb
Silicon	28-1	6385.06	5585.52	5875.24	5948.61	6.80	ppb
Silver	107-1	0.02	0.01	0.02	0.02	17.96	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.46	ppb
Sodium	23-2	44968.39	44705.99	44826.30	44833.56	0.29	ppb
Strontium	86-1	15243.10	12863.24	13863.71	13990.02	8.54	ppb
Strontium	88-1	15249.44	12639.81	13718.94	13869.40	9.45	ppb
Sulfur	34-1	410430.65	360468.57	377164.83	382688.01	6.65	ppb
Terbium	159-1				97		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.01	0.01	0.01	36.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	10.65	ppb
Tin	118-1	0.76	0.63	0.70	0.70	9.56	ppb
Titanium	47-1	0.71	0.55	0.70	0.65	13.65	ppb
Uranium	238-1	0.11	0.09	0.10	0.10	7.31	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.13	0.11	0.12	5.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				98		%
Zinc	66-2	0.92	1.13	0.96	1.00	11.36	ppb
Zirconium	90-1	0.07	0.06	0.07	0.06	9.14	ppb
Zirconium	91-1	0.07	0.06	0.06	0.07	11.38	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.43	3.93	4.47	4.28	7.06	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	10.29	ppb
Arsenic	75-2	0.11	0.13	0.16	0.13	16.46	ppb
Barium	135-1	15.27	15.97	16.43	15.89	3.68	ppb
Barium	137-1	15.40	16.12	16.57	16.03	3.69	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	22.13	ppb
Bismuth	209-1				93		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.04	0.00	0.03	87.76	ppb
Cadmium	106-1	-0.11	-0.51	-0.64	-0.42		ppb
Cadmium	111-1	-0.01	-0.03	-0.05	-0.03		ppb
Calcium	43-1	412869.76	421075.05	452949.38	428964.73	4.94	ppb
Calcium	44-1	406078.11	417501.39	441307.37	421628.96	4.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.01	0.03	0.03	74.38	ppb
Cobalt	59-2	0.06	0.06	0.06	0.06	0.91	ppb
Copper	63-2	0.41	0.43	0.45	0.43	4.54	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				103		%
Holmium	165-2				92		%
Indium	115-1				99		%
Indium	115-2				83		%
Iron	54-2	1365.95	1348.33	1354.19	1356.16	0.66	ppb
Iron	56-2	1411.19	1380.91	1405.59	1399.23	1.15	ppb
Iron	57-2	1364.50	1353.65	1385.03	1367.73	1.17	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.11	0.13	0.12	9.18	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.11	0.12	0.11	11.00	ppb
Lead	208-1	0.10	0.11	0.13	0.12	14.38	ppb
Lithium	6-1				100		%
Magnesium	24-2	144517.23	143617.59	147785.23	145306.68	1.51	ppb
Manganese	55-2	50.60	51.26	51.77	51.21	1.14	ppb
Molybdenum	94-1	0.57	0.65	0.67	0.63	8.50	ppb
Molybdenum	95-1	0.67	0.73	0.72	0.71	4.39	ppb
Molybdenum	96-1	0.65	0.69	0.74	0.70	6.31	ppb
Molybdenum	97-1	0.68	0.71	0.79	0.73	8.10	ppb
Molybdenum	98-1	0.66	0.69	0.71	0.69	4.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.24	0.25	0.21	0.24	8.73	ppb
Phosphorus	31-2	-7.95	-8.06	-10.60	-8.87		ppb
Potassium	39-2	4729.37	4705.87	4784.60	4739.95	0.85	ppb
Rhodium	103-1				93		%
Rhodium	103-2				86		%
Scandium	45-1				101		%
Scandium	45-2				91		%
Selenium	82-1	0.36	0.33	0.22	0.30	25.34	ppb
Selenium	77-2	0.00	0.74	0.75	0.50	86.61	ppb
Selenium	78-2	-0.09	-0.14	-0.57	-0.27		ppb
Silicon	28-1	8069.40	8141.29	8650.41	8287.03	3.82	ppb
Silver	107-1	0.02	0.03	0.03	0.03	15.92	ppb
Silver	109-1	0.01	0.01	0.03	0.02	42.18	ppb
Sodium	23-2	186739.20	184918.82	189692.39	187116.80	1.29	ppb
Strontium	86-1	13425.27	14044.99	14835.24	14101.84	5.01	ppb
Strontium	88-1	13152.71	14039.41	14707.56	13966.56	5.58	ppb
Sulfur	34-1	437671.93	446083.44	472599.15	452118.18	4.03	ppb
Terbium	159-1				102		%
Terbium	159-2				92		%
Thallium	203-1	0.01	0.00	0.01	0.01	48.82	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	39.11	ppb
Tin	118-1	0.52	0.55	0.55	0.54	2.88	ppb
Titanium	47-1	0.71	0.67	0.69	0.69	3.15	ppb
Uranium	238-1	0.23	0.24	0.25	0.24	2.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.03	0.03	3.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				91		%
Zinc	66-2	0.63	0.47	0.70	0.60	19.64	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	10.33	ppb
Zirconium	91-1	0.03	0.03	0.04	0.03	31.06	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.13	4.78	3.61	4.17	14.01	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	12.16	ppb
Arsenic	75-2	0.14	0.16	0.10	0.13	25.65	ppb
Barium	135-1	16.27	16.43	16.41	16.37	0.52	ppb
Barium	137-1	16.02	16.54	16.65	16.40	2.05	ppb
Beryllium	9-1	0.02	0.02	0.01	0.02	14.82	ppb
Bismuth	209-1				91		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.07	0.02	0.04	84.11	ppb
Cadmium	106-1	-0.09	-0.86	-1.60	-0.85		ppb
Cadmium	111-1	0.00	-0.07	-0.12	-0.06		ppb
Calcium	43-1	424251.00	443114.31	458530.84	441965.38	3.88	ppb
Calcium	44-1	416533.92	435832.54	449659.96	434008.81	3.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.12	0.15	0.12	0.13	15.72	ppb
Cobalt	59-2	0.05	0.05	0.04	0.05	8.37	ppb
Copper	63-2	3.40	3.69	3.44	3.51	4.56	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				100		%
Holmium	165-2				95		%
Indium	115-1				97		%
Indium	115-2				89		%
Iron	54-2	1454.36	1528.48	1485.45	1489.43	2.50	ppb
Iron	56-2	1546.56	1581.53	1537.17	1555.09	1.50	ppb
Iron	57-2	1477.74	1530.59	1492.19	1500.18	1.82	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.09	0.09	6.86	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.10	0.09	0.09	11.05	ppb
Lead	208-1	0.09	0.09	0.09	0.09	4.22	ppb
Lithium	6-1				96		%
Magnesium	24-2	144366.16	148119.91	142692.00	145059.36	1.92	ppb
Manganese	55-2	50.18	52.44	50.11	50.91	2.60	ppb
Molybdenum	94-1	0.60	0.64	0.63	0.63	3.18	ppb
Molybdenum	95-1	0.70	0.73	0.72	0.72	1.95	ppb
Molybdenum	96-1	0.71	0.73	0.72	0.72	0.91	ppb
Molybdenum	97-1	0.72	0.71	0.75	0.73	3.02	ppb
Molybdenum	98-1	0.69	0.70	0.72	0.70	1.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.23	0.27	0.30	0.27	12.76	ppb
Phosphorus	31-2	-15.01	-3.31	-15.94	-11.42		ppb
Potassium	39-2	4620.81	4887.59	4683.08	4730.50	2.95	ppb
Rhodium	103-1				90		%
Rhodium	103-2				88		%
Scandium	45-1				98		%
Scandium	45-2				94		%
Selenium	82-1	0.60	0.09	0.09	0.26	112.91	ppb
Selenium	77-2	0.74	0.00	1.46	0.73	99.28	ppb
Selenium	78-2	-0.14	-0.58	-0.37	-0.36		ppb
Silicon	28-1	7993.59	8370.39	8681.10	8348.36	4.12	ppb
Silver	107-1	0.02	0.03	0.03	0.03	15.57	ppb
Silver	109-1	0.02	0.03	0.03	0.02	24.87	ppb
Sodium	23-2	185716.71	189832.75	181963.27	185837.58	2.12	ppb
Strontium	86-1	14074.42	14037.34	14625.73	14245.83	2.31	ppb
Strontium	88-1	13965.18	14014.67	14643.25	14207.70	2.66	ppb
Sulfur	34-1	443792.98	454162.94	474883.76	457613.23	3.46	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.00	0.01	0.00	63.43	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.15	ppb
Tin	118-1	0.51	0.52	0.56	0.53	4.66	ppb
Titanium	47-1	0.81	0.70	0.71	0.74	8.41	ppb
Uranium	238-1	0.23	0.25	0.25	0.24	4.68	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.02	0.03	15.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				94		%
Zinc	66-2	0.93	0.94	0.94	0.93	0.66	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	13.41	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	20.67	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.51	3.96	3.73	3.73	5.97	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	5.99	ppb
Arsenic	75-2	0.03	0.01	0.04	0.03	67.66	ppb
Barium	135-1	3.17	3.20	3.22	3.19	0.87	ppb
Barium	137-1	3.34	3.25	3.32	3.31	1.46	ppb
Beryllium	9-1	0.02	0.01	0.01	0.01	22.43	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.03	0.02	0.02	52.02	ppb
Cadmium	106-1	-0.20	-0.64	-0.14	-0.33		ppb
Cadmium	111-1	-0.01	-0.05	-0.01	-0.02		ppb
Calcium	43-1	86702.58	87031.67	87206.77	86980.34	0.29	ppb
Calcium	44-1	84696.12	86291.01	85024.67	85337.27	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.07	-0.10	-0.07	-0.08		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	53.18	ppb
Copper	63-2	0.52	0.57	0.54	0.54	5.29	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				105		%
Holmium	165-2				103		%
Indium	115-1				103		%
Indium	115-2				101		%
Iron	54-2	275.11	276.08	275.62	275.60	0.18	ppb
Iron	56-2	275.33	277.09	278.61	277.01	0.59	ppb
Iron	57-2	275.08	269.76	274.32	273.05	1.05	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.06	0.05	0.06	13.15	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.05	0.05	0.05	3.16	ppb
Lead	208-1	0.05	0.05	0.05	0.05	1.22	ppb
Lithium	6-1				104		%
Magnesium	24-2	29163.29	29164.30	29857.36	29394.98	1.36	ppb
Manganese	55-2	12.59	12.76	12.76	12.70	0.74	ppb
Molybdenum	94-1	0.16	0.16	0.14	0.15	9.89	ppb
Molybdenum	95-1	0.15	0.16	0.17	0.16	6.87	ppb
Molybdenum	96-1	0.15	0.15	0.15	0.15	1.89	ppb
Molybdenum	97-1	0.17	0.16	0.14	0.16	8.62	ppb
Molybdenum	98-1	0.15	0.15	0.15	0.15	2.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.12	0.12	0.15	0.13	11.49	ppb
Phosphorus	31-2	-20.71	-28.23	-27.65	-25.53		ppb
Potassium	39-2	958.22	953.81	960.45	957.49	0.35	ppb
Rhodium	103-1				99		%
Rhodium	103-2				101		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	0.20	0.07	0.14	0.14	49.40	ppb
Selenium	77-2	0.69	0.00	0.67	0.45	86.63	ppb
Selenium	78-2	-0.81	-0.62	-0.23	-0.55		ppb
Silicon	28-1	1635.27	1683.35	1670.04	1662.89	1.49	ppb
Silver	107-1	0.02	0.02	0.02	0.02	9.83	ppb
Silver	109-1	0.02	0.01	0.01	0.01	23.33	ppb
Sodium	23-2	37208.68	36945.63	37005.40	37053.24	0.37	ppb
Strontium	86-1	2823.07	2845.67	2867.26	2845.33	0.78	ppb
Strontium	88-1	2796.68	2822.07	2841.84	2820.20	0.80	ppb
Sulfur	34-1	89799.19	91822.32	90954.99	90858.83	1.12	ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.00	0.01	0.00	0.01	22.75	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	28.04	ppb
Tin	118-1	0.19	0.17	0.17	0.18	6.33	ppb
Titanium	47-1	0.17	0.14	0.17	0.16	9.24	ppb
Uranium	238-1	0.04	0.05	0.05	0.05	4.42	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.01	0.01	61.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	0.49	0.58	0.57	0.54	9.05	ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	37.45	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	23.29	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1765.93	1882.71	1853.20	1833.95	3.31	ppb
Antimony	121-1	106.84	101.22	109.15	105.74	3.86	ppb
Arsenic	75-2	40.08	40.32	41.47	40.62	1.83	ppb
Barium	135-1	2088.84	2033.63	2158.69	2093.72	2.99	ppb
Barium	137-1	2076.80	2013.44	2131.73	2073.99	2.85	ppb
Beryllium	9-1	49.54	49.27	51.62	50.14	2.57	ppb
Bismuth	209-1				92		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	38.69	39.60	40.32	39.54	2.06	ppb
Cadmium	106-1	38.99	37.29	39.40	38.56	2.90	ppb
Cadmium	111-1	48.32	46.19	49.38	47.96	3.39	ppb
Calcium	43-1	443408.94	426142.76	454127.60	441226.43	3.20	ppb
Calcium	44-1	435147.37	422221.51	439651.57	432340.15	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	196.50	209.44	205.11	203.68	3.23	ppb
Cobalt	59-2	504.68	533.32	517.64	518.55	2.77	ppb
Copper	63-2	251.10	249.49	245.97	248.86	1.06	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				102		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	2399.61	2525.26	2500.93	2475.26	2.69	ppb
Iron	56-2	2347.19	2440.89	2403.98	2397.35	1.97	ppb
Iron	57-2	2257.71	2389.16	2337.98	2328.28	2.85	ppb
Krypton	83-1						cps
Lead	206-1	20.12	19.90	20.66	20.22	1.93	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	20.19	19.64	20.69	20.18	2.59	ppb
Lead	208-1	20.08	19.73	20.62	20.15	2.22	ppb
Lithium	6-1				100		%
Magnesium	24-2	134905.77	143549.67	141063.07	139839.51	3.18	ppb
Manganese	55-2	521.93	551.72	538.87	537.51	2.78	ppb
Molybdenum	94-1	0.65	0.68	0.68	0.67	2.86	ppb
Molybdenum	95-1	0.71	0.71	0.80	0.74	7.05	ppb
Molybdenum	96-1	0.73	0.73	0.75	0.74	1.26	ppb
Molybdenum	97-1	0.70	0.70	0.77	0.72	5.76	ppb
Molybdenum	98-1	0.71	0.68	0.77	0.72	6.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	470.06	496.30	484.57	483.64	2.72	ppb
Phosphorus	31-2	-3.76	-5.92	-5.03	-4.91		ppb
Potassium	39-2	4525.15	4795.15	4671.74	4664.01	2.90	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	19.28	19.22	20.11	19.54	2.54	ppb
Selenium	77-2	12.53	21.10	15.99	16.54	26.06	ppb
Selenium	78-2	18.35	17.58	17.77	17.90	2.23	ppb
Silicon	28-1	8648.84	8376.15	8768.45	8597.81	2.34	ppb
Silver	107-1	45.83	44.96	47.73	46.17	3.07	ppb
Silver	109-1	46.84	45.17	48.38	46.80	3.44	ppb
Sodium	23-2	174580.37	186257.11	180303.28	180380.26	3.24	ppb
Strontium	86-1	13829.58	13853.14	14627.45	14103.39	3.22	ppb
Strontium	88-1	13921.07	13765.90	14607.34	14098.10	3.18	ppb
Sulfur	34-1	463428.72	448165.97	479530.89	463708.53	3.38	ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	50.73	50.10	51.96	50.93	1.86	ppb
Thallium	205-1	54.91	53.15	55.22	54.43	2.06	ppb
Tin	118-1	0.59	0.57	0.60	0.59	2.58	ppb
Titanium	47-1	0.74	0.79	0.76	0.76	3.36	ppb
Uranium	238-1	0.25	0.24	0.25	0.25	1.82	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	513.59	527.79	537.72	526.37	2.30	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	453.34	482.04	468.81	468.06	3.07	ppb
Zirconium	90-1	0.05	0.05	0.05	0.05	4.48	ppb
Zirconium	91-1	0.06	0.08	0.08	0.07	11.99	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	588.14	589.99	590.28	589.47	0.20	ppb
Antimony	121-1	0.09	0.11	0.10	0.10	7.14	ppb
Arsenic	75-2	2.36	2.33	2.31	2.33	1.09	ppb
Barium	135-1	45.50	43.14	42.05	43.56	4.05	ppb
Barium	137-1	45.65	43.25	42.15	43.68	4.10	ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	17.13	ppb
Bismuth	209-1				97		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.62	0.51	0.55	0.56	9.70	ppb
Cadmium	106-1	0.60	1.15	-0.31	0.48	152.58	ppb
Cadmium	111-1	0.08	0.12	0.00	0.07	94.01	ppb
Calcium	43-1	147120.94	136843.39	135540.27	139834.87	4.54	ppb
Calcium	44-1	143323.31	135166.86	134663.18	137717.78	3.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.05	0.06	0.03	0.05	27.55	ppb
Cobalt	59-2	0.14	0.16	0.15	0.15	5.75	ppb
Copper	63-2	1.00	0.92	0.95	0.96	3.96	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				104		%
Holmium	165-2				106		%
Indium	115-1				101		%
Indium	115-2				102		%
Iron	54-2	17.25	18.84	17.08	17.72	5.45	ppb
Iron	56-2	18.50	18.24	18.02	18.25	1.29	ppb
Iron	57-2	22.19	21.88	22.90	22.32	2.35	ppb
Krypton	83-1						cps
Lead	206-1	0.25	0.22	0.22	0.23	8.07	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.21	0.23	0.22	5.44	ppb
Lead	208-1	0.24	0.21	0.22	0.22	7.38	ppb
Lithium	6-1				106		%
Magnesium	24-2	22.47	24.34	22.75	23.19	4.35	ppb
Manganese	55-2	1.96	2.05	2.03	2.01	2.33	ppb
Molybdenum	94-1	38.17	35.81	35.41	36.47	4.09	ppb
Molybdenum	95-1	46.31	43.51	42.65	44.16	4.33	ppb
Molybdenum	96-1	44.96	42.29	41.53	42.93	4.20	ppb
Molybdenum	97-1	46.41	43.90	42.94	44.42	4.04	ppb
Molybdenum	98-1	45.82	42.55	42.18	43.52	4.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	161.41	159.77	160.30	160.49	0.52	ppb
Phosphorus	31-2	340.77	367.38	377.00	361.71	5.19	ppb
Potassium	39-2	60624.07	59943.66	58929.27	59832.33	1.43	ppb
Rhodium	103-1				99		%
Rhodium	103-2				102		%
Scandium	45-1				104		%
Scandium	45-2				105		%
Selenium	82-1	1.87	1.63	1.62	1.71	8.09	ppb
Selenium	77-2	0.00	3.25	2.00	1.75	93.69	ppb
Selenium	78-2	0.13	0.88	0.93	0.64	69.84	ppb
Silicon	28-1	2495.92	2399.26	2355.50	2416.89	2.97	ppb
Silver	107-1	0.05	0.03	0.03	0.04	24.18	ppb
Silver	109-1	0.04	0.04	0.03	0.04	14.71	ppb
Sodium	23-2	30046.30	29725.59	30075.56	29949.15	0.65	ppb
Strontium	86-1	1432.76	1348.89	1319.81	1367.15	4.29	ppb
Strontium	88-1	1444.12	1338.31	1323.61	1368.68	4.80	ppb
Sulfur	34-1	14468.61	12775.97	12649.78	13298.12	7.64	ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.02	0.02	0.02	25.40	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	8.34	ppb
Tin	118-1	0.48	0.48	0.45	0.47	4.01	ppb
Titanium	47-1	0.76	0.64	0.58	0.66	13.44	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.72	2.74	2.69	2.72	0.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				106		%
Zinc	66-2	1.33	1.29	1.29	1.30	2.04	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	22.26	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	6.89	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	57.33	53.78	46.63	52.58	10.37	ppb
Antimony	121-1	0.22	0.19	0.20	0.20	6.17	ppb
Arsenic	75-2	1.21	1.59	1.13	1.31	18.48	ppb
Barium	135-1	23.56	22.56	22.71	22.94	2.34	ppb
Barium	137-1	23.76	22.36	22.53	22.89	3.33	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	28.87	ppb
Bismuth	209-1				98		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.37	0.60	0.45	0.47	25.12	ppb
Cadmium	106-1	0.35	0.97	0.59	0.63	48.88	ppb
Cadmium	111-1	0.09	0.10	0.09	0.10	8.06	ppb
Calcium	43-1	18864.24	17680.02	17852.46	18132.24	3.53	ppb
Calcium	44-1	19151.47	17593.56	17776.47	18173.83	4.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	-0.03	-0.05	-0.02		ppb
Cobalt	59-2	0.12	0.11	0.10	0.11	9.43	ppb
Copper	63-2	4.03	4.04	3.26	3.78	11.86	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				109		%
Indium	115-1				102		%
Indium	115-2				103		%
Iron	54-2	127.80	125.40	106.76	119.99	9.60	ppb
Iron	56-2	126.40	124.66	107.17	119.41	8.90	ppb
Iron	57-2	123.17	125.87	113.12	120.72	5.56	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.09	0.08	0.10	25.47	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.09	0.10	9.23	ppb
Lead	208-1	0.11	0.09	0.08	0.09	14.13	ppb
Lithium	6-1				106		%
Magnesium	24-2	441.71	448.00	377.47	422.39	9.24	ppb
Manganese	55-2	8.37	8.43	7.30	8.04	7.90	ppb
Molybdenum	94-1	29.70	27.75	28.31	28.59	3.51	ppb
Molybdenum	95-1	36.00	34.03	34.46	34.83	2.97	ppb
Molybdenum	96-1	35.03	33.12	33.22	33.79	3.19	ppb
Molybdenum	97-1	36.05	34.02	34.63	34.90	2.99	ppb
Molybdenum	98-1	35.70	33.52	33.80	34.34	3.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	26.95	26.68	22.56	25.40	9.69	ppb
Phosphorus	31-2	107.43	87.03	96.12	96.86	10.55	ppb
Potassium	39-2	80508.24	79640.33	68454.29	76200.95	8.82	ppb
Rhodium	103-1				98		%
Rhodium	103-2				105		%
Scandium	45-1				103		%
Scandium	45-2				105		%
Selenium	82-1	1.07	1.03	1.06	1.05	1.58	ppb
Selenium	77-2	1.34	1.36	0.00	0.90	86.61	ppb
Selenium	78-2	0.74	0.38	0.57	0.56	32.25	ppb
Silicon	28-1	2113.70	1977.76	2017.92	2036.46	3.43	ppb
Silver	107-1	0.02	0.02	0.01	0.02	33.47	ppb
Silver	109-1	0.02	0.02	0.02	0.02	9.08	ppb
Sodium	23-2	52562.08	52636.09	45279.71	50159.29	8.43	ppb
Strontium	86-1	543.90	528.68	517.53	530.04	2.50	ppb
Strontium	88-1	548.47	501.45	519.92	523.28	4.53	ppb
Sulfur	34-1	14567.05	12578.92	12528.35	13224.77	8.79	ppb
Terbium	159-1				103		%
Terbium	159-2				108		%
Thallium	203-1	0.01	0.01	0.01	0.01	17.31	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	1.43	ppb
Tin	118-1	0.48	0.42	0.43	0.44	7.12	ppb
Titanium	47-1	0.39	0.36	0.39	0.38	4.53	ppb
Uranium	238-1	0.12	0.12	0.12	0.12	2.54	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.82	1.85	1.50	1.72	11.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				107		%
Zinc	66-2	4.38	4.19	3.79	4.12	7.40	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	28.30	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	24.34	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	753.54	693.20	640.55	695.76	8.13	ppb
Antimony	121-1	0.13	0.12	0.11	0.12	7.94	ppb
Arsenic	75-2	5.20	4.26	4.72	4.73	9.96	ppb
Barium	135-1	58.30	52.19	52.17	54.22	6.52	ppb
Barium	137-1	57.71	52.69	51.94	54.12	5.80	ppb
Beryllium	9-1	0.02	0.01	0.02	0.01	39.53	ppb
Bismuth	209-1				92		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	1.32	1.21	1.10	1.21	9.05	ppb
Cadmium	106-1	-0.31	0.23	-0.14	-0.07		ppb
Cadmium	111-1	0.01	0.06	0.03	0.03	76.88	ppb
Calcium	43-1	125257.59	114884.75	112089.64	117410.66	5.91	ppb
Calcium	44-1	124398.07	111691.49	110421.70	115503.75	6.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.57	0.48	0.44	0.50	12.96	ppb
Cobalt	59-2	0.18	0.13	0.13	0.15	17.59	ppb
Copper	63-2	2.73	2.41	2.35	2.50	8.12	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				101		%
Holmium	165-2				112		%
Indium	115-1				97		%
Indium	115-2				106		%
Iron	54-2	16.28	14.05	13.25	14.53	10.81	ppb
Iron	56-2	15.97	14.39	13.26	14.54	9.38	ppb
Iron	57-2	19.01	17.20	15.17	17.13	11.22	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.06	0.07	17.24	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.05	0.05	0.06	16.69	ppb
Lead	208-1	0.08	0.06	0.06	0.07	14.41	ppb
Lithium	6-1				104		%
Magnesium	24-2	-4.97	-6.84	-6.59	-6.13		ppb
Manganese	55-2	0.84	0.80	0.75	0.80	5.49	ppb
Molybdenum	94-1	78.98	71.81	70.71	73.83	6.08	ppb
Molybdenum	95-1	95.78	86.70	86.30	89.59	5.99	ppb
Molybdenum	96-1	93.66	84.40	84.39	87.48	6.11	ppb
Molybdenum	97-1	95.79	88.06	87.81	90.55	5.01	ppb
Molybdenum	98-1	95.92	86.45	85.62	89.33	6.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	451.81	412.22	387.91	417.31	7.73	ppb
Phosphorus	31-2	555.61	554.31	507.72	539.22	5.06	ppb
Potassium	39-2	192994.40	173166.33	163903.79	176688.17	8.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				107		%
Scandium	45-1				99		%
Scandium	45-2				110		%
Selenium	82-1	2.07	1.67	2.10	1.95	12.39	ppb
Selenium	77-2	1.34	1.82	2.38	1.85	28.02	ppb
Selenium	78-2	0.36	0.41	0.03	0.27	76.95	ppb
Silicon	28-1	3291.45	2994.54	2954.21	3080.07	5.98	ppb
Silver	107-1	0.01	0.01	0.01	0.01	13.64	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.61	ppb
Sodium	23-2	117249.70	107373.52	101618.50	108747.24	7.27	ppb
Strontium	86-1	2514.02	2267.48	2205.36	2328.95	7.01	ppb
Strontium	88-1	2506.58	2267.74	2222.59	2332.30	6.54	ppb
Sulfur	34-1	15958.95	13322.03	12303.38	13861.46	13.61	ppb
Terbium	159-1				101		%
Terbium	159-2				112		%
Thallium	203-1	0.01	0.01	0.01	0.01	32.40	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	34.05	ppb
Tin	118-1	0.59	0.51	0.54	0.55	7.34	ppb
Titanium	47-1	0.87	0.78	0.70	0.78	10.82	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.96	2.70	2.56	2.74	7.51	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				111		%
Zinc	66-2	1.16	0.93	0.79	0.96	19.22	ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	45.89	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	46.98	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47976.81	47843.64	47911.96	47910.80	0.14	ppb
Antimony	121-1	498.50	494.81	501.39	498.23	0.66	ppb
Arsenic	75-2	500.17	493.54	491.44	495.05	0.92	ppb
Barium	135-1	2527.35	2530.19	2521.48	2526.34	0.18	ppb
Barium	137-1	2470.09	2523.62	2520.69	2504.80	1.20	ppb
Beryllium	9-1	500.78	506.26	506.53	504.52	0.64	ppb
Bismuth	209-1				92		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	489.89	495.21	498.28	494.46	0.86	ppb
Cadmium	106-1	488.83	500.44	500.61	496.63	1.36	ppb
Cadmium	111-1	478.19	492.59	496.88	489.22	2.00	ppb
Calcium	43-1	236169.68	235527.59	235923.61	235873.63	0.14	ppb
Calcium	44-1	233912.85	229823.79	233700.62	232479.09	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	516.50	523.71	503.93	514.71	1.94	ppb
Cobalt	59-2	496.54	504.25	511.18	503.99	1.45	ppb
Copper	63-2	4883.75	4815.74	4768.40	4822.63	1.20	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				104		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				92		%
Iron	54-2	121167.78	120020.97	119464.81	120217.85	0.72	ppb
Iron	56-2	123247.76	121387.06	119927.70	121520.84	1.37	ppb
Iron	57-2	124858.82	122429.51	120147.24	122478.52	1.92	ppb
Krypton	83-1						cps
Lead	206-1	2571.64	2609.70	2552.56	2577.97	1.13	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2590.44	2602.24	2573.75	2588.81	0.55	ppb
Lead	208-1	2548.22	2588.29	2569.16	2568.56	0.78	ppb
Lithium	6-1				97		%
Magnesium	24-2	239830.92	239359.26	240632.27	239940.82	0.27	ppb
Manganese	55-2	5110.18	5011.91	4939.62	5020.57	1.71	ppb
Molybdenum	94-1	5034.75	5100.34	5100.03	5078.37	0.74	ppb
Molybdenum	95-1	5058.07	5126.51	5116.26	5100.28	0.72	ppb
Molybdenum	96-1	5013.09	5126.57	5140.98	5093.55	1.38	ppb
Molybdenum	97-1	4940.15	5109.79	5105.51	5051.82	1.91	ppb
Molybdenum	98-1	4955.71	5110.30	5099.74	5055.25	1.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.82	464.34	464.02	464.06	0.06	ppb
Phosphorus	31-2	9918.41	9880.61	9711.04	9836.69	1.12	ppb
Potassium	39-2	118573.42	119155.85	119483.50	119070.92	0.39	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	482.20	493.16	484.89	486.75	1.17	ppb
Selenium	77-2	536.91	489.20	490.60	505.57	5.37	ppb
Selenium	78-2	486.84	460.47	483.76	477.02	3.02	ppb
Silicon	28-1	535.46	536.48	548.70	540.22	1.36	ppb
Silver	107-1	482.27	478.33	485.00	481.87	0.70	ppb
Silver	109-1	479.80	480.22	492.08	484.03	1.44	ppb
Sodium	23-2	240799.53	240334.93	237726.67	239620.37	0.69	ppb
Strontium	86-1	508.75	514.26	511.07	511.36	0.54	ppb
Strontium	88-1	500.60	509.30	509.25	506.38	0.99	ppb
Sulfur	34-1	10551.13	10441.32	10081.83	10358.09	2.37	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	521.68	517.66	513.65	517.66	0.78	ppb
Thallium	205-1	513.71	516.84	516.72	515.76	0.34	ppb
Tin	118-1	502.85	501.50	512.68	505.68	1.21	ppb
Titanium	47-1	4971.39	5080.00	5107.93	5053.11	1.43	ppb
Uranium	238-1	514.93	516.71	522.11	517.92	0.72	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	516.69	516.68	510.76	514.71	0.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				98		%
Zinc	66-2	4935.00	4840.49	4753.00	4842.83	1.88	ppb
Zirconium	90-1	508.53	516.23	515.36	513.37	0.82	ppb
Zirconium	91-1	519.69	521.22	517.44	519.45	0.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.56	1.33	1.40	1.43	8.11	ppb
Antimony	121-1	0.15	0.13	0.12	0.14	11.90	ppb
Arsenic	75-2	-0.01	0.01	0.01	0.00	444.67	ppb
Barium	135-1	0.12	0.08	0.08	0.09	20.95	ppb
Barium	137-1	0.10	0.08	0.08	0.09	12.21	ppb
Beryllium	9-1	0.16	0.14	0.13	0.15	9.74	ppb
Bismuth	209-1				106		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.06	0.04	0.05	17.87	ppb
Cadmium	106-1	-0.83	0.18	-0.47	-0.38		ppb
Cadmium	111-1	-0.03	0.05	-0.01	0.00	9189.77	ppb
Calcium	43-1	10.19	6.82	5.50	7.50	32.23	ppb
Calcium	44-1	12.34	8.57	7.71	9.54	25.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.16	-0.16	-0.13	-0.15		ppb
Cobalt	59-2	0.02	0.01	0.01	0.01	28.25	ppb
Copper	63-2	0.29	0.26	0.26	0.27	7.15	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				103		%
Indium	115-1				109		%
Indium	115-2				100		%
Iron	54-2	3.90	2.71	3.48	3.36	17.90	ppb
Iron	56-2	3.51	3.32	3.37	3.40	2.82	ppb
Iron	57-2	3.64	3.83	2.12	3.19	29.39	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.29	0.26	0.30	14.67	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.32	0.28	0.26	0.29	11.88	ppb
Lead	208-1	0.33	0.29	0.25	0.29	12.80	ppb
Lithium	6-1				107		%
Magnesium	24-2	-5.09	-5.31	-5.63	-5.34		ppb
Manganese	55-2	0.12	0.11	0.09	0.11	12.63	ppb
Molybdenum	94-1	0.36	0.27	0.25	0.29	20.34	ppb
Molybdenum	95-1	0.33	0.26	0.23	0.27	19.63	ppb
Molybdenum	96-1	0.32	0.26	0.23	0.27	17.98	ppb
Molybdenum	97-1	0.30	0.25	0.23	0.26	15.63	ppb
Molybdenum	98-1	0.32	0.26	0.21	0.26	21.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.11	-0.10	-0.06	-0.09		ppb
Phosphorus	31-2	-26.34	-25.69	-24.61	-25.55		ppb
Potassium	39-2	41.15	36.08	39.28	38.84	6.60	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	0.06	0.07	-0.11	0.00	3164.53	ppb
Selenium	77-2	0.00	0.66	0.68	0.45	86.63	ppb
Selenium	78-2	-1.01	-0.81	0.58	-0.41		ppb
Silicon	28-1	13.08	10.20	8.33	10.54	22.73	ppb
Silver	107-1	0.07	0.07	0.05	0.06	13.94	ppb
Silver	109-1	0.07	0.06	0.05	0.06	15.67	ppb
Sodium	23-2	59.24	54.81	56.04	56.70	4.04	ppb
Strontium	86-1	0.05	0.02	0.03	0.03	45.87	ppb
Strontium	88-1	0.06	0.05	0.04	0.05	22.72	ppb
Sulfur	34-1	-583.90	-606.80	-572.01	-587.57		ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.05	0.05	0.05	0.05	6.06	ppb
Thallium	205-1	0.06	0.05	0.04	0.05	15.17	ppb
Tin	118-1	0.03	0.03	0.01	0.02	37.76	ppb
Titanium	47-1	0.31	0.18	0.16	0.21	38.82	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	22.44	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.02	0.02	34.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	0.02	-0.07	-0.09	-0.05		ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	20.26	ppb
Zirconium	91-1	0.04	0.03	0.03	0.03	19.72	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	732.02	740.25	755.59	742.62	1.61	ppb
Antimony	121-1	0.13	0.13	0.13	0.13	0.63	ppb
Arsenic	75-2	4.53	4.57	5.08	4.73	6.54	ppb
Barium	135-1	52.05	50.51	52.29	51.62	1.88	ppb
Barium	137-1	52.76	50.93	52.45	52.05	1.88	ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	6.74	ppb
Bismuth	209-1				95		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.10	1.05	1.02	1.06	3.91	ppb
Cadmium	106-1	-0.18	0.27	0.44	0.18	182.35	ppb
Cadmium	111-1	0.03	0.06	0.10	0.06	55.58	ppb
Calcium	43-1	114045.57	106195.33	107946.75	109395.88	3.77	ppb
Calcium	44-1	111385.91	106043.89	107065.57	108165.12	2.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.06	0.08	0.07	13.42	ppb
Cobalt	59-2	0.16	0.17	0.16	0.16	4.21	ppb
Copper	63-2	0.51	0.51	0.56	0.53	5.20	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				102		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	11.04	11.73	11.56	11.45	3.15	ppb
Iron	56-2	11.39	11.68	11.79	11.62	1.76	ppb
Iron	57-2	13.44	14.15	15.00	14.20	5.52	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.13	0.13	0.14	8.08	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.15	0.14	0.14	4.40	ppb
Lead	208-1	0.14	0.14	0.14	0.14	2.49	ppb
Lithium	6-1				104		%
Magnesium	24-2	-6.30	-6.03	-5.23	-5.85		ppb
Manganese	55-2	0.66	0.60	0.59	0.62	6.64	ppb
Molybdenum	94-1	70.78	67.58	69.64	69.33	2.34	ppb
Molybdenum	95-1	84.83	81.30	84.65	83.59	2.38	ppb
Molybdenum	96-1	83.17	79.17	82.36	81.57	2.59	ppb
Molybdenum	97-1	85.71	82.99	84.06	84.25	1.63	ppb
Molybdenum	98-1	84.52	81.38	83.38	83.09	1.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	436.04	443.99	448.75	442.93	1.45	ppb
Phosphorus	31-2	568.81	589.60	592.43	583.61	2.21	ppb
Potassium	39-2	182557.57	187071.56	189678.01	186435.71	1.93	ppb
Rhodium	103-1				94		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	2.03	2.02	1.97	2.00	1.59	ppb
Selenium	77-2	1.33	0.00	0.00	0.44	173.21	ppb
Selenium	78-2	-0.43	-0.61	-0.01	-0.35		ppb
Silicon	28-1	2937.34	2813.79	2863.52	2871.55	2.16	ppb
Silver	107-1	0.03	0.02	0.02	0.02	10.40	ppb
Silver	109-1	0.02	0.02	0.02	0.02	2.00	ppb
Sodium	23-2	115053.18	116500.94	117560.84	116371.65	1.08	ppb
Strontium	86-1	2248.79	2181.53	2171.99	2200.77	1.90	ppb
Strontium	88-1	2239.27	2133.29	2194.58	2189.05	2.43	ppb
Sulfur	34-1	12950.43	11473.31	11202.71	11875.48	7.92	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.02	0.02	13.25	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	14.04	ppb
Tin	118-1	0.50	0.47	0.52	0.50	4.88	ppb
Titanium	47-1	0.71	0.71	0.67	0.70	3.08	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	8.11	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.88	2.85	2.88	2.87	0.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	1.19	1.38	1.51	1.36	11.93	ppb
Zirconium	90-1	0.05	0.05	0.04	0.05	13.51	ppb
Zirconium	91-1	0.07	0.05	0.04	0.05	34.86	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.53	1.72	1.54	1.93	27.40	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	5.59	ppb
Arsenic	75-2	0.02	0.03	0.04	0.03	35.62	ppb
Barium	135-1	4.12	4.19	4.29	4.20	2.07	ppb
Barium	137-1	4.06	4.23	4.36	4.22	3.49	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	5.08	ppb
Bismuth	209-1				111		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.05	-0.01	0.01	264.01	ppb
Cadmium	106-1	-1.14	-0.54	0.18	-0.50		ppb
Cadmium	111-1	-0.08	-0.04	0.02	-0.03		ppb
Calcium	43-1	134939.92	138480.23	135555.03	136325.06	1.39	ppb
Calcium	44-1	132055.16	135174.18	133043.61	133424.32	1.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.17	-0.15	-0.14	-0.15		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	6.33	ppb
Copper	63-2	0.19	0.18	0.19	0.19	3.13	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				112		%
Indium	115-1				117		%
Indium	115-2				109		%
Iron	54-2	428.26	426.19	427.72	427.39	0.25	ppb
Iron	56-2	453.78	445.74	442.11	447.21	1.34	ppb
Iron	57-2	441.56	437.77	431.48	436.94	1.17	ppb
Krypton	83-1						cps
Lead	206-1	0.28	0.23	0.18	0.23	20.73	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.30	0.22	0.17	0.23	28.82	ppb
Lead	208-1	0.29	0.23	0.19	0.23	21.95	ppb
Lithium	6-1				117		%
Magnesium	24-2	44639.43	45447.42	45070.45	45052.43	0.90	ppb
Manganese	55-2	16.69	16.19	16.13	16.33	1.89	ppb
Molybdenum	94-1	0.23	0.20	0.22	0.21	7.46	ppb
Molybdenum	95-1	0.22	0.26	0.24	0.24	8.06	ppb
Molybdenum	96-1	0.23	0.21	0.22	0.22	5.14	ppb
Molybdenum	97-1	0.26	0.24	0.23	0.24	5.20	ppb
Molybdenum	98-1	0.21	0.22	0.23	0.22	3.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.06	0.06	0.06	0.06	7.30	ppb
Phosphorus	31-2	-24.41	-25.98	-20.54	-23.64		ppb
Potassium	39-2	1535.32	1549.85	1523.84	1536.34	0.85	ppb
Rhodium	103-1				112		%
Rhodium	103-2				108		%
Scandium	45-1				120		%
Scandium	45-2				112		%
Selenium	82-1	0.11	0.43	0.20	0.25	64.64	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.29	0.25	-0.65	-0.23		ppb
Silicon	28-1	2570.79	2682.15	2646.83	2633.25	2.16	ppb
Silver	107-1	0.01	0.01	0.01	0.01	31.57	ppb
Silver	109-1	0.01	0.01	0.01	0.01	9.26	ppb
Sodium	23-2	57380.30	56848.28	57844.15	57357.58	0.87	ppb
Strontium	86-1	4443.12	4481.81	4525.16	4483.36	0.92	ppb
Strontium	88-1	4392.80	4439.23	4500.19	4444.07	1.21	ppb
Sulfur	34-1	141032.50	143457.48	142064.95	142184.97	0.86	ppb
Terbium	159-1				118		%
Terbium	159-2				113		%
Thallium	203-1	0.03	0.02	0.02	0.03	13.63	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	15.35	ppb
Tin	118-1	0.05	0.06	0.07	0.06	20.07	ppb
Titanium	47-1	0.21	0.22	0.23	0.22	3.64	ppb
Uranium	238-1	0.07	0.07	0.07	0.07	1.28	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	16.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				119		%
Yttrium	89-2				113		%
Zinc	66-2	0.71	0.50	0.59	0.60	17.82	ppb
Zirconium	90-1	0.01	0.01	0.00	0.01	15.39	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	41.23	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.61	17.66	18.41	18.90	8.12	ppb
Antimony	121-1	0.22	0.25	0.24	0.24	6.42	ppb
Arsenic	75-2	1.85	1.89	2.06	1.93	5.82	ppb
Barium	135-1	30.31	31.14	31.59	31.01	2.10	ppb
Barium	137-1	30.71	31.94	31.86	31.50	2.19	ppb
Beryllium	9-1	0.04	0.05	0.05	0.05	6.10	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.48	0.29	0.50	0.42	27.22	ppb
Cadmium	106-1	0.10	-0.33	0.41	0.06	611.50	ppb
Cadmium	111-1	0.07	0.03	0.09	0.06	43.78	ppb
Calcium	43-1	33070.17	34446.71	34912.73	34143.20	2.81	ppb
Calcium	44-1	32862.06	33516.39	33898.53	33425.66	1.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.64	1.61	1.70	1.65	2.87	ppb
Cobalt	59-2	0.09	0.10	0.09	0.09	5.26	ppb
Copper	63-2	3.27	3.24	3.28	3.26	0.72	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				106		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	54-2	190.67	191.16	186.16	189.33	1.46	ppb
Iron	56-2	188.74	188.20	187.55	188.16	0.32	ppb
Iron	57-2	195.40	184.94	187.80	189.38	2.86	ppb
Krypton	83-1						cps
Lead	206-1	0.63	0.66	0.68	0.65	4.03	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.62	0.64	0.64	0.63	2.02	ppb
Lead	208-1	0.63	0.65	0.66	0.64	2.40	ppb
Lithium	6-1				104		%
Magnesium	24-2	39120.37	39259.84	37872.99	38751.06	1.97	ppb
Manganese	55-2	53.08	52.14	53.01	52.74	1.00	ppb
Molybdenum	94-1	22.46	22.91	23.31	22.89	1.85	ppb
Molybdenum	95-1	26.53	27.53	27.91	27.32	2.60	ppb
Molybdenum	96-1	26.34	26.49	26.90	26.58	1.10	ppb
Molybdenum	97-1	27.32	27.53	27.91	27.59	1.08	ppb
Molybdenum	98-1	26.50	27.26	27.52	27.09	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.92	3.91	4.00	3.95	1.32	ppb
Phosphorus	31-2	43.34	33.99	43.97	40.43	13.82	ppb
Potassium	39-2	58246.02	56141.68	56569.55	56985.75	1.95	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				105		%
Scandium	45-2				99		%
Selenium	82-1	1.02	1.24	1.21	1.16	10.37	ppb
Selenium	77-2	0.00	1.38	0.68	0.69	100.17	ppb
Selenium	78-2	0.42	0.19	-0.01	0.20	106.70	ppb
Silicon	28-1	8216.49	8284.02	8453.12	8317.88	1.47	ppb
Silver	107-1	0.03	0.03	0.03	0.03	5.78	ppb
Silver	109-1	0.03	0.03	0.03	0.03	3.10	ppb
Sodium	23-2	40164.81	39184.21	38647.36	39332.13	1.96	ppb
Strontium	86-1	330.89	339.08	341.06	337.01	1.60	ppb
Strontium	88-1	327.71	333.39	340.64	333.91	1.94	ppb
Sulfur	34-1	64931.84	65202.10	65860.20	65331.38	0.73	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.01	0.02	0.01	6.46	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	7.68	ppb
Tin	118-1	17.03	17.41	17.93	17.46	2.58	ppb
Titanium	47-1	1.07	1.08	1.06	1.07	0.73	ppb
Uranium	238-1	1.49	1.58	1.58	1.55	3.33	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.16	1.13	1.15	1.15	1.38	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				100		%
Zinc	66-2	314.40	311.64	309.21	311.75	0.83	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	7.53	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	6.66	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.73	14.21	12.63	12.86	9.74	ppb
Antimony	121-1	0.09	0.09	0.08	0.09	9.74	ppb
Arsenic	75-2	2.07	1.91	2.03	2.00	4.12	ppb
Barium	135-1	94.10	96.75	93.44	94.76	1.85	ppb
Barium	137-1	94.27	97.34	94.06	95.23	1.93	ppb
Beryllium	9-1	0.04	0.04	0.03	0.04	19.40	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.14	0.13	0.12	19.29	ppb
Cadmium	106-1	-0.59	0.61	-0.39	-0.13		ppb
Cadmium	111-1	-0.03	0.06	-0.03	0.00		ppb
Calcium	43-1	157787.58	156942.80	153988.06	156239.48	1.28	ppb
Calcium	44-1	152191.71	151295.39	148813.44	150766.85	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.95	1.01	1.04	1.00	4.32	ppb
Cobalt	59-2	0.18	0.19	0.17	0.18	5.53	ppb
Copper	63-2	0.71	0.77	0.81	0.76	6.11	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				104		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				97		%
Iron	54-2	921.56	939.20	929.40	930.05	0.95	ppb
Iron	56-2	968.80	979.92	961.88	970.20	0.94	ppb
Iron	57-2	928.02	933.11	940.49	933.87	0.67	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.23	0.21	0.22	5.57	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.22	0.22	0.20	0.21	5.49	ppb
Lead	208-1	0.23	0.22	0.21	0.22	4.12	ppb
Lithium	6-1				100		%
Magnesium	24-2	39399.69	39045.28	38387.64	38944.20	1.32	ppb
Manganese	55-2	69.52	70.11	68.25	69.29	1.36	ppb
Molybdenum	94-1	6.34	6.59	6.38	6.44	2.14	ppb
Molybdenum	95-1	7.52	7.65	7.43	7.53	1.49	ppb
Molybdenum	96-1	7.30	7.46	7.26	7.34	1.49	ppb
Molybdenum	97-1	7.58	7.69	7.40	7.56	1.97	ppb
Molybdenum	98-1	7.48	7.59	7.37	7.48	1.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.21	2.20	2.19	2.20	0.64	ppb
Phosphorus	31-2	83.53	60.38	50.99	64.96	25.78	ppb
Potassium	39-2	4485.35	4517.25	4496.99	4499.86	0.36	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				99		%
Selenium	82-1	0.17	0.21	0.40	0.26	48.51	ppb
Selenium	77-2	0.00	0.69	0.00	0.23	173.21	ppb
Selenium	78-2	-0.20	0.00	0.00	-0.07		ppb
Silicon	28-1	8730.08	8939.97	8560.27	8743.44	2.18	ppb
Silver	107-1	0.02	0.02	0.01	0.02	15.85	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.99	ppb
Sodium	23-2	10797.77	10901.15	10743.43	10814.12	0.74	ppb
Strontium	86-1	16003.96	16604.63	15631.70	16080.10	3.05	ppb
Strontium	88-1	16024.02	16559.43	15597.39	16060.28	3.00	ppb
Sulfur	34-1	115655.29	114537.43	112011.10	114067.94	1.64	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	30.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	9.81	ppb
Tin	118-1	0.41	0.40	0.38	0.40	3.20	ppb
Titanium	47-1	1.15	1.19	1.10	1.15	3.97	ppb
Uranium	238-1	2.03	2.05	1.99	2.02	1.45	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.09	1.15	1.08	1.11	3.15	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	0.81	0.82	0.95	0.86	9.23	ppb
Zirconium	90-1	0.11	0.12	0.14	0.12	10.64	ppb
Zirconium	91-1	0.12	0.12	0.12	0.12	2.60	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13.43	10.92	13.08	12.48	10.90	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	4.47	ppb
Arsenic	75-2	0.23	0.30	0.28	0.27	13.61	ppb
Barium	135-1	35.79	36.58	36.45	36.27	1.17	ppb
Barium	137-1	36.13	37.14	36.29	36.52	1.48	ppb
Beryllium	9-1	0.03	0.04	0.03	0.03	3.45	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.05	-0.01	0.04	104.27	ppb
Cadmium	106-1	-1.38	-0.44	-0.75	-0.86		ppb
Cadmium	111-1	-0.11	-0.03	-0.06	-0.07		ppb
Calcium	43-1	416150.96	419676.15	427626.54	421151.22	1.40	ppb
Calcium	44-1	409940.93	411988.41	425582.91	415837.42	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.09	0.07	0.12	0.09	27.02	ppb
Cobalt	59-2	0.13	0.11	0.13	0.12	7.73	ppb
Copper	63-2	0.06	0.07	0.14	0.09	50.54	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				102		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	1191.31	1138.30	1177.90	1169.17	2.36	ppb
Iron	56-2	1262.68	1184.89	1252.92	1233.49	3.44	ppb
Iron	57-2	1229.78	1127.65	1204.60	1187.34	4.48	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.13	0.13	0.12	7.45	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.14	0.15	0.13	11.91	ppb
Lead	208-1	0.12	0.13	0.14	0.13	5.30	ppb
Lithium	6-1				100		%
Magnesium	24-2	119111.04	109568.73	114262.85	114314.20	4.17	ppb
Manganese	55-2	167.54	157.76	166.53	163.95	3.28	ppb
Molybdenum	94-1	0.57	0.57	0.54	0.56	3.19	ppb
Molybdenum	95-1	0.37	0.36	0.35	0.36	2.29	ppb
Molybdenum	96-1	0.36	0.36	0.35	0.36	1.64	ppb
Molybdenum	97-1	0.34	0.33	0.33	0.33	1.47	ppb
Molybdenum	98-1	0.35	0.34	0.33	0.34	2.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.19	0.15	0.17	0.17	12.91	ppb
Phosphorus	31-2	11.51	-2.54	15.30	8.09	116.23	ppb
Potassium	39-2	3022.70	2865.32	2975.54	2954.52	2.73	ppb
Rhodium	103-1				95		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.50	0.59	-0.02	0.36	91.34	ppb
Selenium	77-2	0.00	1.34	0.69	0.68	99.13	ppb
Selenium	78-2	0.01	-0.62	0.00	-0.20		ppb
Silicon	28-1	5990.40	5978.23	6116.81	6028.48	1.27	ppb
Silver	107-1	0.01	0.01	0.01	0.01	24.49	ppb
Silver	109-1	0.00	0.01	0.01	0.01	50.26	ppb
Sodium	23-2	22717.88	21802.34	22189.32	22236.51	2.07	ppb
Strontium	86-1	11432.14	11813.75	11737.33	11661.08	1.73	ppb
Strontium	88-1	11439.90	11658.09	11727.37	11608.45	1.29	ppb
Sulfur	34-1	448315.03	449264.90	458499.63	452026.52	1.24	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	14.64	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	16.83	ppb
Tin	118-1	0.47	0.48	0.47	0.48	1.12	ppb
Titanium	47-1	0.74	0.74	0.90	0.79	11.54	ppb
Uranium	238-1	0.15	0.16	0.16	0.16	2.67	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.13	0.11	0.12	6.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				101		%
Zinc	66-2	2.00	1.91	1.98	1.96	2.36	ppb
Zirconium	90-1	0.14	0.14	0.14	0.14	0.88	ppb
Zirconium	91-1	0.14	0.16	0.15	0.15	7.42	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51.42	56.17	59.49	55.70	7.28	ppb
Antimony	121-1	0.59	0.64	0.55	0.59	7.08	ppb
Arsenic	75-2	1.43	1.81	1.72	1.65	12.04	ppb
Barium	135-1	31.85	35.47	32.00	33.10	6.19	ppb
Barium	137-1	32.17	35.78	31.63	33.19	6.80	ppb
Beryllium	9-1	0.03	0.04	0.04	0.04	14.21	ppb
Bismuth	209-1				98		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.47	0.61	0.54	0.54	13.14	ppb
Cadmium	106-1	0.72	0.26	0.37	0.45	52.87	ppb
Cadmium	111-1	0.14	0.13	0.11	0.13	10.91	ppb
Calcium	43-1	55614.23	59475.80	55359.76	56816.60	4.06	ppb
Calcium	44-1	54410.52	59816.42	54341.13	56189.36	5.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.41	0.47	0.41	12.71	ppb
Cobalt	59-2	1.62	1.76	1.77	1.71	4.91	ppb
Copper	63-2	5.16	5.64	5.68	5.49	5.27	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				109		%
Indium	115-1				104		%
Indium	115-2				106		%
Iron	54-2	650.27	696.38	711.20	685.95	4.63	ppb
Iron	56-2	697.41	733.11	743.31	724.61	3.33	ppb
Iron	57-2	653.03	698.46	715.76	689.08	4.70	ppb
Krypton	83-1						cps
Lead	206-1	1.81	2.05	1.79	1.88	7.49	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.72	1.95	1.74	1.80	6.85	ppb
Lead	208-1	1.75	1.96	1.74	1.82	6.73	ppb
Lithium	6-1				105		%
Magnesium	24-2	39732.32	42198.50	43928.88	41953.23	5.03	ppb
Manganese	55-2	85.29	90.94	93.65	89.96	4.74	ppb
Molybdenum	94-1	33.77	36.60	33.56	34.64	4.90	ppb
Molybdenum	95-1	40.74	43.93	40.36	41.68	4.71	ppb
Molybdenum	96-1	39.76	43.39	39.14	40.76	5.64	ppb
Molybdenum	97-1	40.43	44.85	40.41	41.90	6.11	ppb
Molybdenum	98-1	40.02	43.72	40.00	41.25	5.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.19	14.70	15.02	14.64	2.88	ppb
Phosphorus	31-2	20.08	20.23	18.62	19.64	4.52	ppb
Potassium	39-2	29828.18	32694.00	33526.01	32016.06	6.06	ppb
Rhodium	103-1				99		%
Rhodium	103-2				106		%
Scandium	45-1				106		%
Scandium	45-2				110		%
Selenium	82-1	0.95	0.86	1.44	1.08	28.87	ppb
Selenium	77-2	0.60	0.65	0.00	0.42	86.79	ppb
Selenium	78-2	0.39	-0.25	0.34	0.16	223.29	ppb
Silicon	28-1	3013.81	3287.86	2990.52	3097.40	5.34	ppb
Silver	107-1	0.10	0.10	0.09	0.10	5.56	ppb
Silver	109-1	0.10	0.11	0.09	0.10	9.85	ppb
Sodium	23-2	27058.43	28913.79	29421.61	28464.61	4.37	ppb
Strontium	86-1	486.40	537.05	481.45	501.63	6.13	ppb
Strontium	88-1	484.90	529.66	480.91	498.49	5.43	ppb
Sulfur	34-1	61867.98	66304.61	61137.21	63103.27	4.43	ppb
Terbium	159-1				104		%
Terbium	159-2				109		%
Thallium	203-1	0.05	0.07	0.05	0.06	16.63	ppb
Thallium	205-1	0.05	0.06	0.06	0.06	7.69	ppb
Tin	118-1	0.49	0.59	0.49	0.52	10.92	ppb
Titanium	47-1	0.67	0.70	0.61	0.66	6.44	ppb
Uranium	238-1	4.62	5.08	4.54	4.74	6.10	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.28	1.38	1.43	1.36	5.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				109		%
Zinc	66-2	1.59	1.78	1.74	1.70	5.74	ppb
Zirconium	90-1	0.07	0.08	0.08	0.08	7.83	ppb
Zirconium	91-1	0.07	0.08	0.08	0.08	5.78	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.56	5.03	4.64	4.74	5.30	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	12.26	ppb
Arsenic	75-2	0.19	0.06	0.14	0.13	48.87	ppb
Barium	135-1	16.34	16.41	16.68	16.48	1.06	ppb
Barium	137-1	16.50	16.59	16.85	16.65	1.10	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	10.16	ppb
Bismuth	209-1				93		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.06	0.01	0.04	76.94	ppb
Cadmium	106-1	-0.08	0.20	-0.35	-0.08		ppb
Cadmium	111-1	0.00	0.02	-0.02	0.00	1104.96	ppb
Calcium	43-1	436497.70	443039.29	441644.62	440393.87	0.78	ppb
Calcium	44-1	425412.35	434852.74	438702.89	432989.33	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.06	0.02	0.05	56.84	ppb
Cobalt	59-2	0.05	0.06	0.05	0.05	4.79	ppb
Copper	63-2	0.28	0.35	0.36	0.33	12.69	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				104		%
Holmium	165-2				95		%
Indium	115-1				100		%
Indium	115-2				88		%
Iron	54-2	1435.09	1403.61	1453.19	1430.63	1.75	ppb
Iron	56-2	1515.70	1438.97	1492.10	1482.26	2.65	ppb
Iron	57-2	1460.81	1423.66	1460.39	1448.29	1.47	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.14	0.15	0.14	11.26	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.15	0.16	0.15	10.84	ppb
Lead	208-1	0.13	0.14	0.15	0.14	8.15	ppb
Lithium	6-1				101		%
Magnesium	24-2	155777.39	149777.42	156162.34	153905.72	2.33	ppb
Manganese	55-2	54.97	53.69	54.92	54.52	1.33	ppb
Molybdenum	94-1	0.68	0.68	0.68	0.68	0.37	ppb
Molybdenum	95-1	0.78	0.72	0.78	0.76	4.81	ppb
Molybdenum	96-1	0.68	0.69	0.74	0.70	4.93	ppb
Molybdenum	97-1	0.71	0.71	0.75	0.73	3.51	ppb
Molybdenum	98-1	0.69	0.69	0.71	0.70	1.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.29	0.27	0.26	0.27	5.16	ppb
Phosphorus	31-2	-8.01	-14.60	-5.31	-9.31		ppb
Potassium	39-2	5110.36	4984.01	5105.27	5066.55	1.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				88		%
Scandium	45-1				104		%
Scandium	45-2				95		%
Selenium	82-1	0.06	0.37	0.45	0.29	69.55	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.79	0.64	-0.14	-0.10		ppb
Silicon	28-1	8307.10	8544.95	8801.82	8551.29	2.89	ppb
Silver	107-1	0.02	0.02	0.03	0.03	13.36	ppb
Silver	109-1	0.02	0.02	0.02	0.02	16.33	ppb
Sodium	23-2	201002.31	192966.27	201016.45	198328.34	2.34	ppb
Strontium	86-1	14414.90	14074.75	14854.87	14448.17	2.71	ppb
Strontium	88-1	14148.93	14284.97	14670.11	14368.00	1.88	ppb
Sulfur	34-1	461228.62	464483.60	467066.47	464259.56	0.63	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.01	0.01	0.01	18.20	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.57	ppb
Tin	118-1	0.55	0.59	0.55	0.56	3.92	ppb
Titanium	47-1	0.76	0.75	0.78	0.76	1.95	ppb
Uranium	238-1	0.25	0.25	0.25	0.25	1.40	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.03	0.03	9.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				95		%
Zinc	66-2	0.72	0.65	0.78	0.72	9.00	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	9.92	ppb
Zirconium	91-1	0.04	0.04	0.02	0.03	25.03	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.48	4.03	4.03	4.18	6.21	ppb
Antimony	121-1	0.01	0.02	0.01	0.02	29.06	ppb
Arsenic	75-2	0.13	0.10	0.17	0.14	26.46	ppb
Barium	135-1	16.54	17.28	16.08	16.63	3.65	ppb
Barium	137-1	16.65	17.37	16.22	16.75	3.46	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	3.19	ppb
Bismuth	209-1				91		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.07	0.04	0.04	85.21	ppb
Cadmium	106-1	0.85	0.26	0.35	0.49	65.20	ppb
Cadmium	111-1	0.07	0.02	0.03	0.04	65.07	ppb
Calcium	43-1	432584.64	445336.09	423912.91	433944.55	2.48	ppb
Calcium	44-1	429138.07	432464.45	411880.42	424494.31	2.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.21	0.21	0.19	0.20	5.57	ppb
Cobalt	59-2	0.05	0.06	0.05	0.05	7.05	ppb
Copper	63-2	3.43	3.56	3.54	3.51	1.99	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				96		%
Indium	115-1				100		%
Indium	115-2				92		%
Iron	54-2	1523.97	1530.21	1532.44	1528.87	0.29	ppb
Iron	56-2	1599.20	1586.53	1589.96	1591.90	0.41	ppb
Iron	57-2	1517.81	1540.90	1543.24	1533.98	0.92	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.12	0.12	0.12	3.61	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.11	0.11	0.11	2.14	ppb
Lead	208-1	0.11	0.12	0.12	0.12	6.01	ppb
Lithium	6-1				101		%
Magnesium	24-2	145168.24	148382.56	150800.54	148117.11	1.91	ppb
Manganese	55-2	52.30	51.67	52.78	52.25	1.07	ppb
Molybdenum	94-1	0.64	0.70	0.64	0.66	5.36	ppb
Molybdenum	95-1	0.73	0.78	0.71	0.74	5.13	ppb
Molybdenum	96-1	0.69	0.75	0.71	0.72	4.00	ppb
Molybdenum	97-1	0.72	0.71	0.70	0.71	1.12	ppb
Molybdenum	98-1	0.72	0.76	0.68	0.72	5.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.32	0.32	0.40	0.35	13.46	ppb
Phosphorus	31-2	-14.86	-2.24	-10.87	-9.32		ppb
Potassium	39-2	4866.90	4888.35	4934.16	4896.47	0.70	ppb
Rhodium	103-1				92		%
Rhodium	103-2				90		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	0.62	0.21	0.26	0.36	60.65	ppb
Selenium	77-2	0.00	0.00	0.74	0.25	173.21	ppb
Selenium	78-2	-0.39	-0.17	-0.58	-0.38		ppb
Silicon	28-1	8483.03	8699.26	8287.15	8489.81	2.43	ppb
Silver	107-1	0.03	0.03	0.04	0.03	9.17	ppb
Silver	109-1	0.02	0.03	0.02	0.02	17.94	ppb
Sodium	23-2	192166.17	189503.68	191420.60	191030.15	0.72	ppb
Strontium	86-1	14007.25	14818.96	13930.62	14252.28	3.45	ppb
Strontium	88-1	13894.95	14430.14	13960.62	14095.24	2.07	ppb
Sulfur	34-1	453925.33	475633.52	450001.69	459853.51	3.00	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.01	0.01	0.01	13.55	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	2.29	ppb
Tin	118-1	0.52	0.59	0.52	0.54	6.95	ppb
Titanium	47-1	0.74	0.77	0.77	0.76	1.94	ppb
Uranium	238-1	0.24	0.26	0.24	0.25	5.21	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.04	0.03	0.03	17.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				96		%
Zinc	66-2	1.03	1.03	1.05	1.04	0.76	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	12.98	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	4.28	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.08	4.58	3.46	3.71	20.99	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	19.08	ppb
Arsenic	75-2	0.02	0.03	0.03	0.03	21.77	ppb
Barium	135-1	3.34	3.31	3.42	3.36	1.71	ppb
Barium	137-1	3.40	3.34	3.43	3.39	1.33	ppb
Beryllium	9-1	0.02	0.03	0.03	0.03	8.26	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	0.04	0.00	0.00	835.60	ppb
Cadmium	106-1	0.46	0.80	1.21	0.82	45.91	ppb
Cadmium	111-1	0.04	0.06	0.09	0.07	41.58	ppb
Calcium	43-1	88363.29	87441.71	88476.27	88093.76	0.64	ppb
Calcium	44-1	85970.24	87214.38	86828.56	86671.06	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.03	-0.03	-0.03		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	38.14	ppb
Copper	63-2	0.45	0.49	0.43	0.46	6.64	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				102		%
Holmium	165-2				97		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	275.84	295.22	276.00	282.35	3.95	ppb
Iron	56-2	278.68	293.70	278.66	283.68	3.06	ppb
Iron	57-2	278.22	292.77	280.46	283.82	2.76	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.06	0.06	0.07	13.16	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.07	0.06	0.07	3.57	ppb
Lead	208-1	0.07	0.07	0.07	0.07	3.63	ppb
Lithium	6-1				104		%
Magnesium	24-2	29334.62	31463.15	29815.33	30204.37	3.70	ppb
Manganese	55-2	12.83	13.49	12.79	13.04	2.99	ppb
Molybdenum	94-1	0.15	0.15	0.17	0.16	4.50	ppb
Molybdenum	95-1	0.17	0.16	0.17	0.17	1.58	ppb
Molybdenum	96-1	0.16	0.14	0.17	0.15	10.41	ppb
Molybdenum	97-1	0.17	0.15	0.15	0.16	8.62	ppb
Molybdenum	98-1	0.14	0.15	0.16	0.15	5.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.17	0.21	0.23	0.20	14.58	ppb
Phosphorus	31-2	-21.40	-20.20	-24.23	-21.94		ppb
Potassium	39-2	993.40	1065.95	1001.26	1020.20	3.90	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	0.22	0.20	-0.16	0.09	245.69	ppb
Selenium	77-2	1.42	0.00	0.00	0.47	173.21	ppb
Selenium	78-2	-1.01	0.26	0.01	-0.25		ppb
Silicon	28-1	1720.15	1706.47	1716.01	1714.21	0.41	ppb
Silver	107-1	0.02	0.01	0.01	0.02	21.55	ppb
Silver	109-1	0.01	0.01	0.01	0.01	5.52	ppb
Sodium	23-2	37103.24	39616.02	37963.13	38227.46	3.34	ppb
Strontium	86-1	2841.95	2833.15	2909.77	2861.62	1.47	ppb
Strontium	88-1	2807.77	2827.40	2910.96	2848.71	1.92	ppb
Sulfur	34-1	95686.62	93158.99	94246.10	94363.90	1.34	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.01	0.00	0.01	32.46	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.94	ppb
Tin	118-1	0.21	0.19	0.20	0.20	3.59	ppb
Titanium	47-1	0.17	0.15	0.19	0.17	13.39	ppb
Uranium	238-1	0.04	0.05	0.05	0.05	5.19	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.01	0.01	34.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				97		%
Zinc	66-2	0.51	0.73	0.43	0.55	28.11	ppb
Zirconium	90-1	0.01	0.01	0.00	0.01	34.57	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	10.74	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1804.26	1826.03	1816.50	1815.60	0.60	ppb
Antimony	121-1	98.58	104.12	102.91	101.87	2.86	ppb
Arsenic	75-2	39.83	40.77	40.24	40.28	1.16	ppb
Barium	135-1	1934.90	2069.49	2042.56	2015.65	3.53	ppb
Barium	137-1	1894.24	2077.04	2086.04	2019.10	5.36	ppb
Beryllium	9-1	45.86	48.82	47.96	47.55	3.20	ppb
Bismuth	209-1				91		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	36.49	39.17	38.62	38.09	3.71	ppb
Cadmium	106-1	36.32	38.45	37.68	37.48	2.88	ppb
Cadmium	111-1	43.91	47.45	47.06	46.14	4.20	ppb
Calcium	43-1	396342.73	430811.49	439131.79	422095.34	5.37	ppb
Calcium	44-1	386039.55	426243.89	434258.21	415513.89	6.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	196.42	198.79	200.20	198.47	0.96	ppb
Cobalt	59-2	508.54	509.68	502.74	506.98	0.73	ppb
Copper	63-2	237.94	240.00	238.89	238.94	0.43	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				104		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	2454.73	2444.56	2447.50	2448.93	0.21	ppb
Iron	56-2	2351.63	2355.66	2405.39	2370.89	1.26	ppb
Iron	57-2	2256.44	2296.26	2300.78	2284.49	1.07	ppb
Krypton	83-1						cps
Lead	206-1	18.31	19.74	19.65	19.23	4.16	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	18.32	19.63	19.64	19.20	3.97	ppb
Lead	208-1	18.29	19.65	19.70	19.21	4.15	ppb
Lithium	6-1				102		%
Magnesium	24-2	139403.33	143041.05	141316.87	141253.75	1.29	ppb
Manganese	55-2	528.09	527.80	528.00	527.96	0.03	ppb
Molybdenum	94-1	0.65	0.69	0.69	0.67	3.47	ppb
Molybdenum	95-1	0.67	0.72	0.75	0.71	5.84	ppb
Molybdenum	96-1	0.64	0.66	0.71	0.67	5.12	ppb
Molybdenum	97-1	0.65	0.74	0.72	0.70	7.05	ppb
Molybdenum	98-1	0.66	0.73	0.72	0.71	5.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	471.41	474.00	470.16	471.85	0.41	ppb
Phosphorus	31-2	-14.68	-5.27	-5.45	-8.47		ppb
Potassium	39-2	4638.79	4666.00	4612.55	4639.11	0.58	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	17.60	19.74	19.36	18.90	6.04	ppb
Selenium	77-2	23.24	18.89	18.68	20.27	12.69	ppb
Selenium	78-2	18.45	19.12	19.50	19.02	2.78	ppb
Silicon	28-1	7582.02	8407.34	8511.57	8166.98	6.24	ppb
Silver	107-1	41.83	45.61	45.50	44.31	4.85	ppb
Silver	109-1	42.38	46.52	46.17	45.02	5.09	ppb
Sodium	23-2	181853.45	181678.08	179692.31	181074.61	0.66	ppb
Strontium	86-1	13187.71	13913.69	13923.83	13675.08	3.09	ppb
Strontium	88-1	13003.72	13622.36	13940.64	13522.24	3.52	ppb
Sulfur	34-1	419596.29	453863.46	460379.35	444613.03	4.93	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	46.11	49.36	50.07	48.51	4.35	ppb
Thallium	205-1	48.82	52.55	51.90	51.09	3.90	ppb
Tin	118-1	0.53	0.55	0.55	0.54	2.49	ppb
Titanium	47-1	0.73	0.78	0.79	0.77	4.39	ppb
Uranium	238-1	0.23	0.24	0.24	0.24	3.68	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	519.83	512.82	524.96	519.20	1.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	454.32	455.91	458.14	456.12	0.42	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	4.33	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	3.54	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.53	0.24	0.55	0.44	39.45	ppb
Antimony	121-1	0.01	0.01	0.00	0.01	31.53	ppb
Arsenic	75-2	-0.01	0.00	-0.01	-0.01		ppb
Barium	135-1	0.06	0.03	0.03	0.04	40.35	ppb
Barium	137-1	0.05	0.04	0.03	0.04	27.98	ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	17.29	ppb
Bismuth	209-1				105		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	0.03	0.03	0.01	404.56	ppb
Cadmium	106-1	0.85	0.89	0.81	0.85	4.82	ppb
Cadmium	111-1	0.07	0.07	0.07	0.07	4.09	ppb
Calcium	43-1	13.98	5.71	8.88	9.53	43.82	ppb
Calcium	44-1	16.45	10.69	11.02	12.72	25.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.12	-0.08	-0.13	-0.11		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	19.27	ppb
Copper	63-2	0.43	0.43	0.43	0.43	0.25	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				108		%
Holmium	165-2				105		%
Indium	115-1				110		%
Indium	115-2				106		%
Iron	54-2	-0.13	-0.16	0.29	0.00	16368.65	ppb
Iron	56-2	0.15	0.12	0.08	0.12	29.61	ppb
Iron	57-2	-0.56	-0.01	0.36	-0.07		ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.04	0.04	0.04	14.02	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.05	0.05	0.05	14.35	ppb
Lead	208-1	0.05	0.04	0.04	0.04	2.04	ppb
Lithium	6-1				112		%
Magnesium	24-2	-8.11	-8.42	-7.83	-8.12		ppb
Manganese	55-2	-0.02	0.04	0.00	0.01	391.86	ppb
Molybdenum	94-1	0.03	0.01	0.01	0.02	48.95	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.01	9.91	ppb
Molybdenum	96-1	0.02	0.02	0.01	0.02	25.73	ppb
Molybdenum	97-1	0.03	0.01	0.01	0.02	57.68	ppb
Molybdenum	98-1	0.01	0.02	0.01	0.02	17.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.12	0.15	0.11	0.13	15.44	ppb
Phosphorus	31-2	-25.22	-24.09	-22.45	-23.92		ppb
Potassium	39-2	41.36	42.39	40.80	41.52	1.94	ppb
Rhodium	103-1				108		%
Rhodium	103-2				109		%
Scandium	45-1				111		%
Scandium	45-2				107		%
Selenium	82-1	0.00	0.14	-0.17	-0.01		ppb
Selenium	77-2	0.64	0.00	0.65	0.43	86.61	ppb
Selenium	78-2	-0.07	-0.63	-0.82	-0.51		ppb
Silicon	28-1	2.77	2.82	2.87	2.82	1.78	ppb
Silver	107-1	0.04	0.03	0.03	0.03	17.22	ppb
Silver	109-1	0.03	0.03	0.02	0.03	14.99	ppb
Sodium	23-2	52.85	53.54	52.26	52.88	1.21	ppb
Strontium	86-1	0.51	0.30	0.31	0.37	31.53	ppb
Strontium	88-1	0.52	0.34	0.35	0.40	25.18	ppb
Sulfur	34-1	1327.37	1551.13	1632.83	1503.78	10.52	ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	0.01	0.01	0.01	0.01	31.29	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	16.38	ppb
Tin	118-1	-0.01	-0.01	-0.02	-0.01		ppb
Titanium	47-1	0.01	0.01	0.01	0.01	6.47	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	37.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				107		%
Zinc	66-2	-0.17	-0.23	-0.12	-0.17		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	220.82	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	29.85	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.71	40.13	39.98	40.27	0.96	ppb
Antimony	121-1	4.26	4.25	4.19	4.24	0.85	ppb
Arsenic	75-2	2.18	2.42	1.92	2.18	11.56	ppb
Barium	135-1	20.25	20.99	20.76	20.67	1.82	ppb
Barium	137-1	20.75	21.04	20.85	20.88	0.69	ppb
Beryllium	9-1	2.09	2.15	2.15	2.13	1.58	ppb
Bismuth	209-1				106		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	1.91	2.11	2.10	2.04	5.61	ppb
Cadmium	106-1	2.47	3.11	2.84	2.81	11.44	ppb
Cadmium	111-1	2.19	2.32	2.24	2.25	2.85	ppb
Calcium	43-1	988.55	1021.64	1015.97	1008.72	1.75	ppb
Calcium	44-1	976.38	998.52	996.12	990.34	1.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.18	4.15	4.16	4.16	0.47	ppb
Cobalt	59-2	2.11	2.17	2.19	2.16	1.73	ppb
Copper	63-2	4.66	4.83	4.77	4.75	1.86	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				106		%
Indium	115-1				110		%
Indium	115-2				105		%
Iron	54-2	418.42	422.15	419.33	419.97	0.46	ppb
Iron	56-2	435.89	437.42	430.52	434.61	0.83	ppb
Iron	57-2	420.55	418.80	412.08	417.14	1.07	ppb
Krypton	83-1						cps
Lead	206-1	2.04	2.00	1.94	1.99	2.53	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.01	2.02	2.02	2.02	0.14	ppb
Lead	208-1	2.00	2.01	2.00	2.01	0.35	ppb
Lithium	6-1				110		%
Magnesium	24-2	965.37	985.31	979.49	976.72	1.05	ppb
Manganese	55-2	2.08	2.21	2.26	2.18	4.14	ppb
Molybdenum	94-1	11.75	12.00	12.12	11.95	1.55	ppb
Molybdenum	95-1	9.88	10.09	10.02	10.00	1.06	ppb
Molybdenum	96-1	9.98	10.25	10.15	10.13	1.35	ppb
Molybdenum	97-1	10.01	9.99	10.27	10.09	1.56	ppb
Molybdenum	98-1	9.78	9.88	10.08	9.91	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.26	2.47	2.26	2.33	5.12	ppb
Phosphorus	31-2	16.28	16.04	48.99	27.10	69.95	ppb
Potassium	39-2	1013.65	1035.40	1040.06	1029.70	1.37	ppb
Rhodium	103-1				108		%
Rhodium	103-2				108		%
Scandium	45-1				110		%
Scandium	45-2				107		%
Selenium	82-1	10.85	11.46	10.78	11.03	3.40	ppb
Selenium	77-2	6.58	8.47	9.59	8.22	18.49	ppb
Selenium	78-2	12.00	10.93	10.32	11.08	7.68	ppb
Silicon	28-1	17.07	16.29	16.88	16.74	2.43	ppb
Silver	107-1	2.07	2.15	2.12	2.11	2.01	ppb
Silver	109-1	2.12	2.16	2.17	2.15	1.05	ppb
Sodium	23-2	1057.91	1074.28	1074.98	1069.06	0.90	ppb
Strontium	86-1	1.97	2.09	2.08	2.05	3.21	ppb
Strontium	88-1	2.01	2.06	2.09	2.05	2.04	ppb
Sulfur	34-1	1321.38	1371.66	1357.91	1350.32	1.92	ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	2.00	1.98	1.98	1.99	0.71	ppb
Thallium	205-1	2.02	2.01	2.00	2.01	0.67	ppb
Tin	118-1	10.56	10.85	10.57	10.66	1.54	ppb
Titanium	47-1	2.63	2.58	2.68	2.63	1.84	ppb
Uranium	238-1	1.84	1.85	1.84	1.84	0.18	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.08	10.43	10.57	10.36	2.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				106		%
Zinc	66-2	10.20	10.25	9.97	10.14	1.47	ppb
Zirconium	90-1	1.98	1.99	2.03	2.00	1.18	ppb
Zirconium	91-1	1.95	2.05	1.96	1.98	2.66	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	591.32	574.16	591.82	585.77	1.72	ppb
Antimony	121-1	0.09	0.09	0.09	0.09	1.60	ppb
Arsenic	75-2	2.07	2.31	2.07	2.15	6.63	ppb
Barium	135-1	41.81	42.40	42.78	42.33	1.15	ppb
Barium	137-1	42.24	42.43	42.32	42.33	0.24	ppb
Beryllium	9-1	0.02	0.02	0.01	0.02	19.12	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.62	0.57	0.61	0.60	4.55	ppb
Cadmium	106-1	1.36	0.85	0.49	0.90	48.66	ppb
Cadmium	111-1	0.13	0.09	0.06	0.09	37.74	ppb
Calcium	43-1	134004.93	135781.71	134009.37	134598.67	0.76	ppb
Calcium	44-1	130899.86	134498.25	132751.90	132716.67	1.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.15	0.10	0.13	0.13	16.99	ppb
Cobalt	59-2	0.12	0.13	0.11	0.12	7.80	ppb
Copper	63-2	0.73	0.72	0.73	0.72	0.91	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				106		%
Indium	115-1				106		%
Indium	115-2				101		%
Iron	54-2	27.72	28.63	27.96	28.10	1.67	ppb
Iron	56-2	28.25	28.22	28.29	28.26	0.12	ppb
Iron	57-2	32.16	31.83	30.50	31.50	2.79	ppb
Krypton	83-1						cps
Lead	206-1	0.22	0.21	0.24	0.22	7.03	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.20	0.22	0.22	6.23	ppb
Lead	208-1	0.22	0.22	0.23	0.22	2.14	ppb
Lithium	6-1				108		%
Magnesium	24-2	16.11	16.16	16.44	16.24	1.12	ppb
Manganese	55-2	2.76	2.88	2.79	2.81	2.27	ppb
Molybdenum	94-1	36.03	35.93	36.44	36.13	0.74	ppb
Molybdenum	95-1	43.07	43.18	44.12	43.46	1.33	ppb
Molybdenum	96-1	41.68	42.52	43.09	42.43	1.68	ppb
Molybdenum	97-1	42.97	43.55	44.23	43.58	1.46	ppb
Molybdenum	98-1	42.26	42.81	43.31	42.79	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	166.17	164.67	165.66	165.50	0.46	ppb
Phosphorus	31-2	433.80	400.94	403.13	412.63	4.45	ppb
Potassium	39-2	62481.57	62407.71	63380.96	62756.74	0.86	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	1.67	1.89	1.57	1.71	9.42	ppb
Selenium	77-2	0.00	0.65	0.66	0.44	86.60	ppb
Selenium	78-2	0.89	0.52	-0.43	0.32	210.44	ppb
Silicon	28-1	2313.04	2394.47	2362.87	2356.79	1.74	ppb
Silver	107-1	0.02	0.02	0.02	0.02	14.38	ppb
Silver	109-1	0.02	0.01	0.02	0.02	15.58	ppb
Sodium	23-2	32800.90	32305.12	31997.50	32367.84	1.25	ppb
Strontium	86-1	1326.46	1331.29	1339.70	1332.48	0.50	ppb
Strontium	88-1	1311.50	1335.38	1346.54	1331.14	1.34	ppb
Sulfur	34-1	13057.03	13072.71	12693.20	12940.98	1.66	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	0.01	0.01	0.01	0.01	36.17	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	31.21	ppb
Tin	118-1	0.73	0.77	0.75	0.75	3.02	ppb
Titanium	47-1	0.67	0.65	0.68	0.66	2.07	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.65	2.67	2.63	2.65	0.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	1.68	1.96	2.00	1.88	9.42	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.20	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	18.90	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	595.39	600.39	587.24	594.34	1.12	ppb
Antimony	121-1	0.08	0.09	0.10	0.09	6.87	ppb
Arsenic	75-2	2.48	2.52	2.36	2.45	3.42	ppb
Barium	135-1	42.22	42.31	43.16	42.56	1.22	ppb
Barium	137-1	42.37	42.29	43.91	42.86	2.13	ppb
Beryllium	9-1	0.01	0.02	0.01	0.02	23.68	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.63	0.60	0.51	0.58	10.99	ppb
Cadmium	106-1	1.17	-0.15	0.85	0.62	110.89	ppb
Cadmium	111-1	0.12	0.01	0.10	0.08	74.30	ppb
Calcium	43-1	134809.97	135033.90	133900.44	134581.44	0.45	ppb
Calcium	44-1	132788.66	131877.55	133868.06	132844.76	0.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.03	0.00	0.03	107.95	ppb
Cobalt	59-2	0.13	0.12	0.11	0.12	10.46	ppb
Copper	63-2	0.69	0.70	0.69	0.69	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				107		%
Holmium	165-2				104		%
Indium	115-1				105		%
Indium	115-2				100		%
Iron	54-2	24.59	26.52	27.66	26.26	5.91	ppb
Iron	56-2	27.43	27.50	27.03	27.32	0.94	ppb
Iron	57-2	28.70	29.61	28.62	28.98	1.91	ppb
Krypton	83-1						cps
Lead	206-1	0.23	0.22	0.22	0.22	4.70	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.20	0.21	0.20	4.27	ppb
Lead	208-1	0.21	0.21	0.21	0.21	0.87	ppb
Lithium	6-1				108		%
Magnesium	24-2	14.94	15.43	15.00	15.13	1.76	ppb
Manganese	55-2	2.65	2.70	2.77	2.71	2.16	ppb
Molybdenum	94-1	35.79	35.51	36.56	35.95	1.52	ppb
Molybdenum	95-1	43.47	42.51	44.98	43.65	2.86	ppb
Molybdenum	96-1	42.34	41.44	43.52	42.44	2.46	ppb
Molybdenum	97-1	43.71	43.20	44.58	43.83	1.59	ppb
Molybdenum	98-1	43.12	42.35	44.06	43.17	1.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	164.94	165.33	166.84	165.70	0.61	ppb
Phosphorus	31-2	406.27	387.81	389.47	394.52	2.59	ppb
Potassium	39-2	63300.05	63163.01	63445.25	63302.77	0.22	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				107		%
Scandium	45-2				105		%
Selenium	82-1	1.42	1.40	1.43	1.41	1.05	ppb
Selenium	77-2	0.67	1.33	1.96	1.32	48.63	ppb
Selenium	78-2	0.95	-0.04	1.46	0.79	96.26	ppb
Silicon	28-1	2336.01	2333.47	2372.25	2347.25	0.92	ppb
Silver	107-1	0.01	0.01	0.01	0.01	15.07	ppb
Silver	109-1	0.01	0.01	0.01	0.01	23.95	ppb
Sodium	23-2	31437.21	32429.24	32485.46	32117.30	1.84	ppb
Strontium	86-1	1343.02	1318.85	1348.90	1336.92	1.19	ppb
Strontium	88-1	1346.75	1322.75	1367.94	1345.81	1.68	ppb
Sulfur	34-1	12946.57	12285.87	12591.67	12608.04	2.62	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.00	0.00	0.00	0.00	35.01	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	16.95	ppb
Tin	118-1	0.77	0.76	0.75	0.76	1.45	ppb
Titanium	47-1	0.70	0.64	0.65	0.66	4.14	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.60	2.64	2.68	2.64	1.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	1.68	1.83	1.67	1.73	5.23	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	22.41	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	27.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	123.26	119.81	122.26	121.77	1.46	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.45	ppb
Arsenic	75-2	0.46	0.44	0.41	0.44	5.92	ppb
Barium	135-1	8.82	8.85	7.94	8.54	6.06	ppb
Barium	137-1	9.13	8.68	8.04	8.62	6.37	ppb
Beryllium	9-1	0.02	0.01	0.01	0.02	29.03	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.10	0.06	0.08	23.72	ppb
Cadmium	106-1	0.64	0.61	1.10	0.78	35.42	ppb
Cadmium	111-1	0.05	0.05	0.10	0.07	34.91	ppb
Calcium	43-1	29276.26	27807.13	25938.06	27673.82	6.05	ppb
Calcium	44-1	28688.72	27275.20	25053.33	27005.75	6.79	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	-0.05	-0.02	-0.04		ppb
Cobalt	59-2	0.03	0.02	0.02	0.02	16.93	ppb
Copper	63-2	0.42	0.37	0.43	0.41	8.36	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				109		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				102		%
Iron	54-2	6.22	6.89	6.18	6.43	6.15	ppb
Iron	56-2	7.00	6.71	6.73	6.81	2.34	ppb
Iron	57-2	7.17	7.25	7.01	7.14	1.67	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.06	0.04	0.05	14.23	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.06	0.04	0.05	19.13	ppb
Lead	208-1	0.06	0.05	0.05	0.05	15.93	ppb
Lithium	6-1				110		%
Magnesium	24-2	-5.16	-5.31	-5.89	-5.45		ppb
Manganese	55-2	0.58	0.52	0.56	0.55	5.13	ppb
Molybdenum	94-1	7.64	7.20	6.64	7.16	7.02	ppb
Molybdenum	95-1	9.05	8.77	7.89	8.57	7.06	ppb
Molybdenum	96-1	8.97	8.55	7.82	8.45	6.92	ppb
Molybdenum	97-1	9.19	8.93	8.03	8.72	6.94	ppb
Molybdenum	98-1	9.09	8.69	7.85	8.54	7.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	35.26	33.87	34.33	34.49	2.05	ppb
Phosphorus	31-2	74.82	33.74	62.11	56.89	36.97	ppb
Potassium	39-2	13316.88	12710.69	12937.05	12988.21	2.36	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	0.29	0.25	0.28	0.27	7.97	ppb
Selenium	77-2	0.67	0.00	0.00	0.22	173.21	ppb
Selenium	78-2	-0.42	0.52	-1.01	-0.30		ppb
Silicon	28-1	496.91	474.47	441.67	471.01	5.90	ppb
Silver	107-1	0.01	0.01	0.00	0.01	25.11	ppb
Silver	109-1	0.00	0.00	0.00	0.00	11.37	ppb
Sodium	23-2	6641.77	6607.27	6606.67	6618.57	0.30	ppb
Strontium	86-1	288.79	271.69	246.39	268.96	7.93	ppb
Strontium	88-1	285.49	272.94	246.19	268.21	7.48	ppb
Sulfur	34-1	4935.02	4053.09	3343.67	4110.60	19.39	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00	228.19	ppb
Tin	118-1	0.17	0.15	0.14	0.15	10.76	ppb
Titanium	47-1	0.13	0.17	0.13	0.14	16.05	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.58	0.52	0.52	0.54	6.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				104		%
Zinc	66-2	0.49	0.42	0.41	0.44	9.83	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	600.24	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	4.69	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2484.76	2441.52	2452.19	2459.49	0.92	ppb
Antimony	121-1	140.80	124.96	121.96	129.24	7.83	ppb
Arsenic	75-2	42.23	43.23	42.89	42.78	1.19	ppb
Barium	135-1	2438.49	2184.11	2164.85	2262.48	6.75	ppb
Barium	137-1	2423.90	2149.69	2110.51	2228.03	7.66	ppb
Beryllium	9-1	56.40	50.68	52.04	53.04	5.64	ppb
Bismuth	209-1				94		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	47.93	42.94	41.96	44.28	7.23	ppb
Cadmium	106-1	47.65	41.61	41.08	43.45	8.40	ppb
Cadmium	111-1	57.54	50.70	49.63	52.63	8.16	ppb
Calcium	43-1	150211.21	133198.02	128756.97	137388.73	8.24	ppb
Calcium	44-1	148425.81	131105.32	126463.27	135331.47	8.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	209.18	206.42	208.07	207.89	0.67	ppb
Cobalt	59-2	539.80	535.38	542.00	539.06	0.63	ppb
Copper	63-2	280.62	266.15	279.13	275.30	2.89	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				100		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	54-2	1215.88	1205.51	1199.34	1206.91	0.69	ppb
Iron	56-2	1105.41	1067.12	1096.10	1089.54	1.83	ppb
Iron	57-2	1056.50	1033.68	1054.12	1048.10	1.20	ppb
Krypton	83-1						cps
Lead	206-1	22.89	20.54	20.42	21.29	6.54	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.73	20.45	20.56	21.25	6.07	ppb
Lead	208-1	22.87	20.44	20.41	21.24	6.65	ppb
Lithium	6-1				100		%
Magnesium	24-2	15.06	14.89	14.55	14.83	1.73	ppb
Manganese	55-2	508.71	500.45	502.74	503.97	0.85	ppb
Molybdenum	94-1	38.44	35.24	35.16	36.28	5.16	ppb
Molybdenum	95-1	46.94	42.16	42.09	43.73	6.35	ppb
Molybdenum	96-1	45.40	41.09	41.07	42.52	5.87	ppb
Molybdenum	97-1	47.54	43.02	42.46	44.34	6.27	ppb
Molybdenum	98-1	46.56	42.22	41.73	43.50	6.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	715.69	666.62	715.98	699.43	4.06	ppb
Phosphorus	31-2	448.64	429.59	466.05	448.09	4.07	ppb
Potassium	39-2	61092.36	60307.82	62028.26	61142.81	1.41	ppb
Rhodium	103-1				94		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				103		%
Selenium	82-1	22.72	20.40	20.90	21.34	5.73	ppb
Selenium	77-2	30.81	18.07	18.85	22.58	31.64	ppb
Selenium	78-2	17.69	20.18	19.14	19.01	6.58	ppb
Silicon	28-1	2632.39	2331.14	2284.78	2416.10	7.81	ppb
Silver	107-1	55.20	49.33	48.68	51.07	7.03	ppb
Silver	109-1	55.70	50.23	49.45	51.79	6.58	ppb
Sodium	23-2	31648.51	31101.42	31322.12	31357.35	0.88	ppb
Strontium	86-1	1475.55	1309.37	1296.74	1360.56	7.33	ppb
Strontium	88-1	1456.31	1302.51	1290.03	1349.62	6.86	ppb
Sulfur	34-1	15047.24	11727.11	11419.32	12731.23	15.80	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	56.88	50.60	51.01	52.83	6.65	ppb
Thallium	205-1	59.74	54.17	52.68	55.53	6.70	ppb
Tin	118-1	0.87	0.74	0.74	0.78	9.88	ppb
Titanium	47-1	0.93	0.75	0.71	0.80	14.29	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	544.59	520.49	536.81	533.96	2.30	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	504.63	499.03	503.12	502.26	0.58	ppb
Zirconium	90-1	0.04	0.03	0.03	0.03	7.22	ppb
Zirconium	91-1	0.07	0.05	0.05	0.06	18.43	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.52	10.44	10.77	10.24	6.36	ppb
Antimony	121-1	0.21	0.18	0.17	0.18	11.46	ppb
Arsenic	75-2	0.54	0.57	0.50	0.53	6.05	ppb
Barium	135-1	31.36	27.73	27.14	28.74	7.94	ppb
Barium	137-1	31.39	27.75	27.35	28.83	7.73	ppb
Beryllium	9-1	0.04	0.02	0.03	0.03	29.61	ppb
Bismuth	209-1				90		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.06	0.06	0.08	34.91	ppb
Cadmium	106-1	0.20	-0.08	-0.73	-0.20		ppb
Cadmium	111-1	0.02	0.00	-0.06	-0.01		ppb
Calcium	43-1	369597.70	321557.04	317640.07	336264.94	8.60	ppb
Calcium	44-1	365716.34	317233.06	308297.63	330415.68	9.35	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.50	1.44	1.55	1.50	3.55	ppb
Cobalt	59-2	0.07	0.08	0.07	0.07	7.79	ppb
Copper	63-2	0.15	0.15	0.16	0.15	5.73	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				100		%
Holmium	165-2				102		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	54-2	346.39	357.73	356.38	353.50	1.75	ppb
Iron	56-2	353.74	359.12	354.91	355.92	0.80	ppb
Iron	57-2	358.47	361.19	359.54	359.73	0.38	ppb
Krypton	83-1						cps
Lead	206-1	1.52	1.32	1.32	1.39	8.63	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.49	1.29	1.25	1.34	9.62	ppb
Lead	208-1	1.49	1.29	1.26	1.35	9.11	ppb
Lithium	6-1				98		%
Magnesium	24-2	92507.23	92215.72	93146.09	92623.01	0.51	ppb
Manganese	55-2	20.12	20.67	19.73	20.17	2.33	ppb
Molybdenum	94-1	4.58	3.91	4.05	4.18	8.41	ppb
Molybdenum	95-1	5.40	4.66	4.66	4.90	8.70	ppb
Molybdenum	96-1	5.26	4.63	4.64	4.84	7.47	ppb
Molybdenum	97-1	5.42	4.68	4.74	4.95	8.32	ppb
Molybdenum	98-1	5.30	4.74	4.67	4.90	7.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.56	0.43	0.53	0.51	13.76	ppb
Phosphorus	31-2	-6.04	-7.34	-13.69	-9.02		ppb
Potassium	39-2	3309.82	3390.89	3352.57	3351.09	1.21	ppb
Rhodium	103-1				91		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				102		%
Selenium	82-1	0.54	0.01	0.41	0.32	86.23	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.22	0.19	-0.40	-0.14		ppb
Silicon	28-1	5935.10	5064.62	4940.99	5313.57	10.20	ppb
Silver	107-1	0.05	0.03	0.02	0.03	41.87	ppb
Silver	109-1	0.04	0.03	0.02	0.03	28.79	ppb
Sodium	23-2	21131.63	21284.66	21018.69	21144.99	0.63	ppb
Strontium	86-1	11924.54	10350.54	10414.59	10896.55	8.18	ppb
Strontium	88-1	11704.22	10321.35	10342.82	10789.46	7.34	ppb
Sulfur	34-1	408449.98	353033.82	347954.60	369812.80	9.07	ppb
Terbium	159-1				99		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	23.05	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	31.94	ppb
Tin	118-1	0.57	0.51	0.46	0.51	10.55	ppb
Titanium	47-1	0.80	0.69	0.69	0.73	8.92	ppb
Uranium	238-1	38.46	33.53	33.87	35.29	7.79	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.10	0.07	0.09	13.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				101		%
Zinc	66-2	0.63	0.75	0.77	0.72	10.20	ppb
Zirconium	90-1	0.07	0.06	0.06	0.06	3.37	ppb
Zirconium	91-1	0.07	0.07	0.07	0.07	2.69	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11.78	11.16	10.98	11.31	3.70	ppb
Antimony	121-1	0.05	0.04	0.05	0.05	13.26	ppb
Arsenic	75-2	0.46	0.39	0.43	0.43	7.65	ppb
Barium	135-1	47.90	48.81	49.64	48.79	1.78	ppb
Barium	137-1	48.16	48.95	49.73	48.95	1.60	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	4.17	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.03	0.08	0.05	56.75	ppb
Cadmium	106-1	1.20	-0.19	-0.48	0.18	502.93	ppb
Cadmium	111-1	0.09	-0.01	-0.04	0.01	508.30	ppb
Calcium	43-1	367276.44	368580.87	377131.35	370996.22	1.44	ppb
Calcium	44-1	357242.00	363001.03	368086.08	362776.37	1.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.42	0.45	0.47	0.45	5.66	ppb
Cobalt	59-2	0.16	0.16	0.15	0.16	2.44	ppb
Copper	63-2	0.91	0.93	0.92	0.92	1.09	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				106		%
Holmium	165-2				104		%
Indium	115-1				103		%
Indium	115-2				99		%
Iron	54-2	275.76	274.86	271.69	274.10	0.78	ppb
Iron	56-2	275.34	277.77	271.88	275.00	1.08	ppb
Iron	57-2	280.87	281.81	275.98	279.55	1.12	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.08	0.10	0.08	23.37	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.08	0.08	3.39	ppb
Lead	208-1	0.08	0.08	0.09	0.08	9.05	ppb
Lithium	6-1				105		%
Magnesium	24-2	92973.09	92702.86	92635.68	92770.54	0.19	ppb
Manganese	55-2	321.04	323.56	314.10	319.57	1.53	ppb
Molybdenum	94-1	0.42	0.49	0.47	0.46	7.50	ppb
Molybdenum	95-1	0.29	0.31	0.33	0.31	5.84	ppb
Molybdenum	96-1	0.30	0.31	0.31	0.31	2.22	ppb
Molybdenum	97-1	0.30	0.30	0.32	0.31	3.11	ppb
Molybdenum	98-1	0.27	0.30	0.32	0.30	8.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.37	0.42	0.46	0.42	10.67	ppb
Phosphorus	31-2	51.65	46.51	42.60	46.92	9.67	ppb
Potassium	39-2	3499.77	3517.25	3452.15	3489.72	0.97	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	0.18	0.27	0.11	0.19	42.68	ppb
Selenium	77-2	0.67	0.67	0.00	0.45	86.61	ppb
Selenium	78-2	-0.03	0.37	-0.62	-0.10		ppb
Silicon	28-1	5622.54	5841.42	5822.07	5762.01	2.10	ppb
Silver	107-1	0.02	0.02	0.01	0.02	19.31	ppb
Silver	109-1	0.01	0.03	0.01	0.01	72.26	ppb
Sodium	23-2	21368.98	21352.13	20861.26	21194.12	1.36	ppb
Strontium	86-1	12828.70	13524.54	14092.76	13482.00	4.70	ppb
Strontium	88-1	12846.17	13583.82	13863.26	13431.08	3.91	ppb
Sulfur	34-1	383500.55	390183.80	399206.98	390963.78	2.02	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.00	0.00	0.01	28.34	ppb
Thallium	205-1	0.00	0.00	0.01	0.00	18.70	ppb
Tin	118-1	0.33	0.34	0.35	0.34	2.23	ppb
Titanium	47-1	0.80	0.93	0.87	0.86	7.86	ppb
Uranium	238-1	0.16	0.16	0.16	0.16	1.67	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.14	0.13	0.13	4.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				104		%
Zinc	66-2	0.61	0.77	0.73	0.70	11.42	ppb
Zirconium	90-1	0.10	0.12	0.11	0.11	5.60	ppb
Zirconium	91-1	0.12	0.11	0.14	0.12	9.54	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.58	5.87	6.85	6.77	12.67	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.35	ppb
Arsenic	75-2	0.08	0.06	0.04	0.06	34.69	ppb
Barium	135-1	11.51	11.34	10.92	11.26	2.69	ppb
Barium	137-1	11.88	11.24	10.92	11.35	4.30	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	6.69	ppb
Bismuth	209-1				94		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.07	0.09	0.08	15.45	ppb
Cadmium	106-1	1.43	-0.03	0.08	0.49	165.19	ppb
Cadmium	111-1	0.11	0.00	0.01	0.04	164.98	ppb
Calcium	43-1	452893.62	442340.01	420613.05	438615.56	3.75	ppb
Calcium	44-1	440913.61	436188.98	411094.34	429398.98	3.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.38	0.46	0.43	0.42	9.17	ppb
Cobalt	59-2	0.10	0.10	0.09	0.10	5.90	ppb
Copper	63-2	0.36	0.33	0.36	0.35	4.91	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				104		%
Holmium	165-2				96		%
Indium	115-1				102		%
Indium	115-2				90		%
Iron	54-2	224.72	219.93	215.50	220.05	2.09	ppb
Iron	56-2	223.78	222.32	217.50	221.20	1.48	ppb
Iron	57-2	233.09	231.92	236.71	233.91	1.07	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.18	0.17	0.17	10.22	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.15	0.15	0.15	2.21	ppb
Lead	208-1	0.17	0.17	0.16	0.17	1.58	ppb
Lithium	6-1				103		%
Magnesium	24-2	124219.24	124881.88	117966.12	122355.75	3.12	ppb
Manganese	55-2	37.47	37.40	36.73	37.20	1.10	ppb
Molybdenum	94-1	0.39	0.44	0.36	0.40	9.95	ppb
Molybdenum	95-1	0.27	0.28	0.25	0.27	4.70	ppb
Molybdenum	96-1	0.24	0.26	0.24	0.25	6.27	ppb
Molybdenum	97-1	0.25	0.24	0.23	0.24	3.11	ppb
Molybdenum	98-1	0.27	0.24	0.22	0.24	8.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.52	0.52	0.45	0.49	7.93	ppb
Phosphorus	31-2	-8.84	-13.56	-8.27	-10.22		ppb
Potassium	39-2	7261.40	7224.18	7014.82	7166.80	1.85	ppb
Rhodium	103-1				95		%
Rhodium	103-2				91		%
Scandium	45-1				104		%
Scandium	45-2				97		%
Selenium	82-1	0.74	0.21	0.60	0.52	53.22	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.46	-0.58	1.03	0.30	270.23	ppb
Silicon	28-1	7538.53	7502.52	7093.76	7378.27	3.35	ppb
Silver	107-1	0.02	0.02	0.02	0.02	6.04	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.51	ppb
Sodium	23-2	76332.43	76189.99	73653.95	75392.12	2.00	ppb
Strontium	86-1	13423.03	12778.36	12416.12	12872.50	3.96	ppb
Strontium	88-1	13140.31	12773.60	12446.72	12786.87	2.71	ppb
Sulfur	34-1	466273.83	461395.42	436102.81	454590.69	3.56	ppb
Terbium	159-1				103		%
Terbium	159-2				95		%
Thallium	203-1	0.00	0.01	0.00	0.00	64.26	ppb
Thallium	205-1	0.00	0.01	0.01	0.01	22.79	ppb
Tin	118-1	0.55	0.52	0.49	0.52	5.27	ppb
Titanium	47-1	0.73	0.72	0.67	0.71	4.66	ppb
Uranium	238-1	0.08	0.08	0.08	0.08	3.55	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.14	0.13	0.14	0.14	6.53	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				97		%
Zinc	66-2	2.02	1.89	1.72	1.88	7.86	ppb
Zirconium	90-1	0.10	0.09	0.09	0.09	4.95	ppb
Zirconium	91-1	0.10	0.09	0.09	0.09	6.39	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2019.48	1994.90	1987.14	2000.51	0.84	ppb
Antimony	121-1	0.97	0.97	0.97	0.97	0.18	ppb
Arsenic	75-2	2.33	2.08	2.09	2.17	6.49	ppb
Barium	135-1	101.04	102.06	99.61	100.91	1.22	ppb
Barium	137-1	101.45	101.57	101.51	101.51	0.06	ppb
Beryllium	9-1	0.13	0.13	0.14	0.13	2.67	ppb
Bismuth	209-1				94		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.37	0.34	0.36	0.36	4.43	ppb
Cadmium	106-1	0.42	0.55	0.49	0.49	13.85	ppb
Cadmium	111-1	0.08	0.09	0.09	0.09	2.42	ppb
Calcium	43-1	297885.20	303283.70	297054.38	299407.76	1.13	ppb
Calcium	44-1	286345.45	297981.00	284938.15	289754.87	2.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.27	4.21	4.28	4.25	0.98	ppb
Cobalt	59-2	5.75	5.56	5.56	5.62	1.94	ppb
Copper	63-2	6.00	6.07	5.99	6.02	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				105		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	54-2	3077.14	3088.42	3047.39	3070.98	0.69	ppb
Iron	56-2	3201.66	3160.31	3138.58	3166.85	1.01	ppb
Iron	57-2	3105.84	3091.33	3035.78	3077.65	1.20	ppb
Krypton	83-1						cps
Lead	206-1	4.17	4.25	4.11	4.17	1.72	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.87	3.92	3.89	3.90	0.66	ppb
Lead	208-1	3.95	4.03	3.97	3.98	1.12	ppb
Lithium	6-1				103		%
Magnesium	24-2	94732.38	92729.29	91072.58	92844.75	1.97	ppb
Manganese	55-2	908.65	891.42	861.39	887.15	2.70	ppb
Molybdenum	94-1	8.42	8.41	8.47	8.44	0.35	ppb
Molybdenum	95-1	7.77	7.79	7.78	7.78	0.13	ppb
Molybdenum	96-1	7.59	7.59	7.69	7.62	0.75	ppb
Molybdenum	97-1	7.55	7.75	7.65	7.65	1.30	ppb
Molybdenum	98-1	7.51	7.65	7.55	7.57	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.88	9.00	8.81	8.90	1.12	ppb
Phosphorus	31-2	531.11	521.38	543.38	531.96	2.07	ppb
Potassium	39-2	6705.36	6613.15	6526.68	6615.06	1.35	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	0.62	0.66	0.51	0.60	13.05	ppb
Selenium	77-2	5.51	2.07	1.36	2.98	74.47	ppb
Selenium	78-2	0.00	0.20	-0.02	0.06	206.33	ppb
Silicon	28-1	9485.57	9991.11	9536.80	9671.16	2.88	ppb
Silver	107-1	0.03	0.03	0.03	0.03	3.02	ppb
Silver	109-1	0.02	0.02	0.03	0.02	6.10	ppb
Sodium	23-2	25761.17	25337.57	25162.82	25420.52	1.21	ppb
Strontium	86-1	17644.80	17758.91	17907.72	17770.48	0.74	ppb
Strontium	88-1	17552.62	17674.46	18210.36	17812.48	1.96	ppb
Sulfur	34-1	287635.77	296270.53	285000.04	289635.44	2.04	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.08	0.09	0.08	0.08	7.09	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	4.27	ppb
Tin	118-1	3.44	3.35	3.45	3.41	1.65	ppb
Titanium	47-1	44.33	46.55	44.39	45.09	2.80	ppb
Uranium	238-1	3.15	3.20	3.12	3.16	1.40	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.86	5.93	5.82	5.87	0.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				101		%
Zinc	66-2	19.65	20.46	19.65	19.92	2.36	ppb
Zirconium	90-1	1.13	1.11	1.11	1.12	1.13	ppb
Zirconium	91-1	1.07	1.11	1.16	1.11	3.89	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.36	8.50	7.76	8.20	4.81	ppb
Antimony	121-1	0.08	0.07	0.07	0.07	6.81	ppb
Arsenic	75-2	0.32	0.31	0.30	0.31	2.80	ppb
Barium	135-1	100.59	100.50	100.56	100.55	0.05	ppb
Barium	137-1	101.80	103.52	99.45	101.59	2.01	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	34.25	ppb
Bismuth	209-1				91		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.04	0.08	0.05	37.55	ppb
Cadmium	106-1	0.31	0.25	-0.38	0.06	639.41	ppb
Cadmium	111-1	0.03	0.02	-0.03	0.01	339.66	ppb
Calcium	43-1	405430.49	397858.53	400331.14	401206.72	0.96	ppb
Calcium	44-1	393604.24	390635.27	394343.33	392860.95	0.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.12	1.17	1.19	1.16	3.02	ppb
Cobalt	59-2	0.10	0.10	0.09	0.10	8.46	ppb
Copper	63-2	0.90	0.86	0.81	0.85	5.63	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				102		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	25.64	28.30	26.04	26.66	5.39	ppb
Iron	56-2	26.90	26.63	25.01	26.18	3.91	ppb
Iron	57-2	34.66	36.89	31.85	34.47	7.33	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.10	0.10	0.10	4.19	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.11	0.09	0.10	10.93	ppb
Lead	208-1	0.10	0.10	0.10	0.10	2.44	ppb
Lithium	6-1				102		%
Magnesium	24-2	44711.06	45150.32	42719.01	44193.46	2.93	ppb
Manganese	55-2	6.67	6.90	6.37	6.65	3.96	ppb
Molybdenum	94-1	1.75	1.64	1.61	1.66	4.53	ppb
Molybdenum	95-1	1.97	1.99	1.92	1.96	1.68	ppb
Molybdenum	96-1	1.90	1.93	1.90	1.91	1.01	ppb
Molybdenum	97-1	1.97	1.91	1.94	1.94	1.56	ppb
Molybdenum	98-1	1.96	1.92	1.92	1.93	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.64	3.53	3.48	3.55	2.34	ppb
Phosphorus	31-2	-11.04	-1.70	-17.63	-10.12		ppb
Potassium	39-2	34625.56	35030.95	32153.79	33936.77	4.59	ppb
Rhodium	103-1				93		%
Rhodium	103-2				96		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.41	0.57	0.13	0.37	60.21	ppb
Selenium	77-2	0.70	0.00	0.66	0.45	86.69	ppb
Selenium	78-2	0.01	-0.80	-0.04	-0.28		ppb
Silicon	28-1	4567.57	4501.30	4573.70	4547.52	0.88	ppb
Silver	107-1	0.02	0.02	0.02	0.02	2.21	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.51	ppb
Sodium	23-2	38476.85	38570.27	36411.17	37819.43	3.23	ppb
Strontium	86-1	15292.12	15034.59	14865.89	15064.20	1.42	ppb
Strontium	88-1	15007.32	14943.63	14683.05	14878.00	1.15	ppb
Sulfur	34-1	386507.24	369375.93	378941.23	378274.80	2.27	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.01	0.01	0.01	2.83	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	19.91	ppb
Tin	118-1	0.22	0.21	0.20	0.21	4.58	ppb
Titanium	47-1	0.62	0.61	0.60	0.61	1.77	ppb
Uranium	238-1	0.12	0.13	0.13	0.13	3.28	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.42	3.53	3.32	3.42	3.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	0.28	0.19	0.29	0.26	22.22	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	6.94	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	16.72	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.80	8.85	9.10	9.25	5.27	ppb
Antimony	121-1	0.10	0.09	0.10	0.10	1.51	ppb
Arsenic	75-2	0.96	0.92	1.04	0.97	6.33	ppb
Barium	135-1	75.94	73.73	78.53	76.07	3.16	ppb
Barium	137-1	76.62	74.66	78.10	76.46	2.26	ppb
Beryllium	9-1	0.03	0.02	0.03	0.02	10.26	ppb
Bismuth	209-1				90		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.05	0.08	0.07	28.34	ppb
Cadmium	106-1	-0.06	0.41	-0.24	0.04	952.89	ppb
Cadmium	111-1	0.01	0.05	0.00	0.02	158.53	ppb
Calcium	43-1	394424.72	379977.98	400533.99	391645.56	2.70	ppb
Calcium	44-1	385890.37	375809.18	391363.98	384354.51	2.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.25	0.26	0.26	0.25	3.45	ppb
Cobalt	59-2	2.38	2.33	2.26	2.32	2.65	ppb
Copper	63-2	1.07	1.15	1.07	1.10	4.34	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				101		%
Indium	115-1				98		%
Indium	115-2				97		%
Iron	54-2	866.52	857.24	799.01	840.92	4.35	ppb
Iron	56-2	909.36	878.30	832.52	873.39	4.43	ppb
Iron	57-2	865.14	859.99	802.56	842.56	4.12	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.14	0.15	0.14	5.37	ppb

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.14	0.16	0.15	6.41	ppb
Lead	208-1	0.14	0.14	0.15	0.14	5.39	ppb
Lithium	6-1				100		%
Magnesium	24-2	112441.08	109922.64	104219.81	108861.18	3.87	ppb
Manganese	55-2	268.82	258.52	246.82	258.05	4.27	ppb
Molybdenum	94-1	3.70	3.75	3.81	3.76	1.49	ppb
Molybdenum	95-1	4.12	4.10	4.21	4.14	1.40	ppb
Molybdenum	96-1	4.09	4.09	4.19	4.12	1.51	ppb
Molybdenum	97-1	4.17	4.03	4.32	4.17	3.48	ppb
Molybdenum	98-1	4.02	4.02	4.19	4.08	2.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.52	4.68	4.28	4.50	4.51	ppb
Phosphorus	31-2	-7.11	-15.43	-3.87	-8.80		ppb
Potassium	39-2	3543.64	3495.12	3280.71	3439.83	4.07	ppb
Rhodium	103-1				92		%
Rhodium	103-2				95		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.43	0.51	0.36	0.43	18.02	ppb
Selenium	77-2	0.00	0.00	0.66	0.22	173.21	ppb
Selenium	78-2	-0.41	-0.20	0.14	-0.15		ppb
Silicon	28-1	7174.95	6885.95	7198.10	7086.33	2.45	ppb
Silver	107-1	0.02	0.02	0.02	0.02	10.35	ppb
Silver	109-1	0.01	0.02	0.02	0.02	30.44	ppb
Sodium	23-2	98628.06	98316.06	91233.40	96059.17	4.35	ppb
Strontium	86-1	12013.21	11916.89	12388.10	12106.07	2.06	ppb
Strontium	88-1	11876.54	11907.60	12197.21	11993.78	1.47	ppb
Sulfur	34-1	356667.00	339089.76	357520.61	351092.46	2.96	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.02	0.01	0.02	17.18	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	12.39	ppb
Tin	118-1	0.23	0.22	0.23	0.23	1.17	ppb
Titanium	47-1	0.64	0.69	0.66	0.66	3.97	ppb
Uranium	238-1	5.06	5.04	5.12	5.07	0.82	ppb

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.13	0.13	0.13	1.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				102		%
Zinc	66-2	2.47	2.52	2.29	2.43	5.04	ppb
Zirconium	90-1	0.20	0.20	0.19	0.20	2.91	ppb
Zirconium	91-1	0.19	0.20	0.20	0.20	4.22	ppb

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.74	10.38	10.91	10.35	5.65	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	3.85	ppb
Arsenic	75-2	0.23	0.28	0.27	0.26	11.10	ppb
Barium	135-1	49.26	48.88	47.99	48.71	1.34	ppb
Barium	137-1	49.21	49.65	48.33	49.06	1.37	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	9.38	ppb
Bismuth	209-1				92		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.03	0.05	0.04	33.25	ppb
Cadmium	106-1	-0.07	-0.25	-0.18	-0.17		ppb
Cadmium	111-1	0.00	-0.01	-0.01	-0.01		ppb
Calcium	43-1	347298.71	350694.39	349663.59	349218.89	0.50	ppb
Calcium	44-1	342909.43	340165.00	346992.05	343355.49	1.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.09	1.08	1.11	1.09	1.63	ppb
Cobalt	59-2	0.12	0.12	0.12	0.12	1.60	ppb
Copper	63-2	0.73	0.70	0.70	0.71	2.39	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				97		%
Iron	54-2	217.74	216.65	214.26	216.22	0.82	ppb
Iron	56-2	216.39	215.76	214.65	215.60	0.41	ppb
Iron	57-2	224.28	225.27	222.27	223.94	0.68	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.20	0.21	0.20	7.97	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.19	0.20	0.19	5.07	ppb
Lead	208-1	0.18	0.19	0.21	0.19	6.17	ppb
Lithium	6-1				102		%
Magnesium	24-2	150071.89	149769.92	150521.41	150121.07	0.25	ppb
Manganese	55-2	64.79	64.72	63.87	64.46	0.80	ppb
Molybdenum	94-1	0.85	0.85	0.86	0.85	0.55	ppb
Molybdenum	95-1	0.87	0.81	0.84	0.84	3.31	ppb
Molybdenum	96-1	0.82	0.83	0.82	0.82	0.96	ppb
Molybdenum	97-1	0.84	0.83	0.85	0.84	1.56	ppb
Molybdenum	98-1	0.83	0.83	0.81	0.82	1.04	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.62	1.55	1.67	1.62	3.87	ppb
Phosphorus	31-2	36.40	24.21	29.65	30.09	20.30	ppb
Potassium	39-2	15056.85	15385.28	14914.33	15118.82	1.60	ppb
Rhodium	103-1				93		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	0.61	0.62	0.36	0.53	27.36	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.41	-0.80	-0.41	-0.27		ppb
Silicon	28-1	6762.31	6693.85	6696.96	6717.71	0.58	ppb
Silver	107-1	0.12	0.08	0.04	0.08	46.51	ppb
Silver	109-1	0.10	0.07	0.03	0.07	48.32	ppb
Sodium	23-2	74583.93	74953.03	74719.43	74752.13	0.25	ppb
Strontium	86-1	12670.04	12738.74	12422.40	12610.39	1.32	ppb
Strontium	88-1	12653.99	12767.12	12315.43	12578.85	1.87	ppb
Sulfur	34-1	370967.90	368485.84	363379.84	367611.19	1.05	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	116.52	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	45.58	ppb
Tin	118-1	0.46	0.45	0.45	0.45	1.69	ppb
Titanium	47-1	0.81	0.88	0.83	0.84	4.33	ppb
Uranium	238-1	0.45	0.44	0.46	0.45	1.78	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.15	0.12	0.12	0.13	13.95	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				101		%
Zinc	66-2	1.24	1.23	1.20	1.22	1.91	ppb
Zirconium	90-1	0.09	0.08	0.09	0.09	7.37	ppb
Zirconium	91-1	0.09	0.09	0.08	0.09	6.71	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	66.17	68.37	66.34	66.96	1.83	ppb
Antimony	121-1	0.21	0.20	0.20	0.20	1.68	ppb
Arsenic	75-2	3.50	3.13	2.89	3.17	9.71	ppb
Barium	135-1	67.09	66.39	64.63	66.03	1.92	ppb
Barium	137-1	67.30	66.27	65.18	66.25	1.60	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	19.13	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.47	0.42	0.40	0.43	7.28	ppb
Cadmium	106-1	0.13	-0.37	-0.02	-0.08		ppb
Cadmium	111-1	0.02	-0.01	0.02	0.01	145.39	ppb
Calcium	43-1	192470.13	185950.24	183717.14	187379.17	2.43	ppb
Calcium	44-1	186406.33	177307.45	176767.96	180160.58	3.01	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.29	0.30	0.24	0.28	11.09	ppb
Cobalt	59-2	2.05	2.00	1.92	1.99	3.14	ppb
Copper	63-2	0.68	0.73	0.69	0.70	3.86	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				102		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	54-2	166.68	170.88	165.54	167.70	1.68	ppb
Iron	56-2	169.96	170.59	166.79	169.11	1.21	ppb
Iron	57-2	174.51	171.07	168.97	171.51	1.63	ppb
Krypton	83-1						cps
Lead	206-1	0.27	0.23	0.23	0.24	9.66	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.23	0.24	0.24	1.82	ppb
Lead	208-1	0.25	0.23	0.23	0.24	5.17	ppb
Lithium	6-1				106		%
Magnesium	24-2	57836.57	56292.09	55560.33	56563.00	2.05	ppb
Manganese	55-2	713.55	708.42	701.48	707.82	0.86	ppb
Molybdenum	94-1	28.12	27.61	27.25	27.66	1.57	ppb
Molybdenum	95-1	33.84	32.88	33.34	33.35	1.43	ppb
Molybdenum	96-1	32.39	32.06	31.73	32.06	1.02	ppb
Molybdenum	97-1	33.50	32.90	33.31	33.24	0.91	ppb
Molybdenum	98-1	33.46	32.49	32.82	32.92	1.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.88	1.82	1.87	1.85	1.62	ppb
Phosphorus	31-2	141.45	149.63	147.06	146.05	2.87	ppb
Potassium	39-2	11601.99	11218.08	11142.69	11320.92	2.18	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				109		%
Scandium	45-2				103		%
Selenium	82-1	0.81	0.45	0.37	0.54	43.03	ppb
Selenium	77-2	1.35	0.00	0.67	0.67	100.35	ppb
Selenium	78-2	-0.42	0.36	-0.23	-0.09		ppb
Silicon	28-1	7947.49	7675.87	7482.87	7702.08	3.03	ppb
Silver	107-1	0.02	0.02	0.02	0.02	3.42	ppb
Silver	109-1	0.01	0.01	0.01	0.01	2.64	ppb
Sodium	23-2	118427.39	114876.42	112401.19	115235.00	2.63	ppb
Strontium	86-1	17103.64	16752.93	16555.67	16804.08	1.65	ppb
Strontium	88-1	16955.84	16405.94	16299.44	16553.74	2.13	ppb
Sulfur	34-1	238128.95	229106.25	226754.70	231329.97	2.60	ppb
Terbium	159-1				105		%
Terbium	159-2				104		%
Thallium	203-1	0.00	0.00	0.00	0.00	21.06	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	13.14	ppb
Tin	118-1	1.13	1.11	1.10	1.11	1.25	ppb
Titanium	47-1	3.82	3.77	3.62	3.74	2.70	ppb
Uranium	238-1	2.65	2.58	2.57	2.60	1.69	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.41	0.44	0.43	0.43	3.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				103		%
Zinc	66-2	1.56	1.44	1.48	1.49	4.17	ppb
Zirconium	90-1	0.12	0.11	0.12	0.12	3.09	ppb
Zirconium	91-1	0.12	0.12	0.11	0.11	4.61	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	45.61	48.19	49.51	47.77	4.15	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	5.62	ppb
Arsenic	75-2	0.55	0.68	0.66	0.63	11.07	ppb
Barium	135-1	8.07	8.36	8.40	8.28	2.21	ppb
Barium	137-1	8.03	8.44	8.39	8.29	2.70	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	14.76	ppb
Bismuth	209-1				93		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.03	0.09	0.06	63.37	ppb
Cadmium	106-1	-0.14	-0.58	-0.45	-0.39		ppb
Cadmium	111-1	-0.01	-0.04	-0.03	-0.03		ppb
Calcium	43-1	414321.20	423796.93	430593.66	422903.93	1.93	ppb
Calcium	44-1	407215.25	415651.25	427562.05	416809.52	2.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.04	0.06	0.04	48.98	ppb
Cobalt	59-2	0.06	0.07	0.06	0.06	9.77	ppb
Copper	63-2	0.47	0.45	0.46	0.46	2.29	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				103		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	54-2	5017.34	5076.29	5036.67	5043.43	0.60	ppb
Iron	56-2	5159.94	5202.51	5262.78	5208.41	0.99	ppb
Iron	57-2	5057.58	4997.44	5025.86	5026.96	0.60	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.07	0.09	0.08	12.14	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.09	0.08	7.52	ppb
Lead	208-1	0.08	0.08	0.09	0.08	5.52	ppb
Lithium	6-1				102		%
Magnesium	24-2	163929.71	165027.62	165348.36	164768.56	0.45	ppb
Manganese	55-2	62.88	63.81	63.93	63.54	0.90	ppb
Molybdenum	94-1	1.36	1.43	1.40	1.40	2.72	ppb
Molybdenum	95-1	1.50	1.62	1.52	1.55	4.16	ppb
Molybdenum	96-1	1.45	1.52	1.48	1.48	2.47	ppb
Molybdenum	97-1	1.51	1.60	1.48	1.53	4.13	ppb
Molybdenum	98-1	1.48	1.50	1.49	1.49	0.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.23	0.25	0.25	0.25	4.29	ppb
Phosphorus	31-2	-12.83	-16.07	-7.57	-12.16		ppb
Potassium	39-2	4135.25	4109.67	4133.08	4126.00	0.34	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.27	0.23	0.36	0.29	23.16	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.40	-0.60	0.43	-0.19		ppb
Silicon	28-1	9588.83	9898.48	9935.74	9807.69	1.94	ppb
Silver	107-1	0.02	0.02	0.02	0.02	5.19	ppb
Silver	109-1	0.01	0.01	0.01	0.01	41.65	ppb
Sodium	23-2	46307.21	46307.01	46635.57	46416.60	0.41	ppb
Strontium	86-1	12174.79	12515.58	12275.53	12321.97	1.42	ppb
Strontium	88-1	11995.30	12474.82	12387.77	12285.96	2.08	ppb
Sulfur	34-1	523185.59	535510.77	541726.54	533474.30	1.77	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.00	0.00	0.00	0.00	71.13	ppb
Thallium	205-1	0.00	0.01	0.01	0.00	20.46	ppb
Tin	118-1	0.17	0.16	0.17	0.17	5.64	ppb
Titanium	47-1	0.97	0.89	0.98	0.95	5.58	ppb
Uranium	238-1	0.83	0.85	0.88	0.86	2.89	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.05	0.05	4.80	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				99		%
Zinc	66-2	1.28	1.37	1.26	1.31	4.25	ppb
Zirconium	90-1	0.04	0.05	0.05	0.05	9.28	ppb
Zirconium	91-1	0.05	0.04	0.06	0.05	17.93	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.82	3.93	3.88	3.88	1.44	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	17.08	ppb
Arsenic	75-2	0.09	0.12	0.14	0.11	22.12	ppb
Barium	135-1	15.21	15.78	15.75	15.58	2.05	ppb
Barium	137-1	15.23	16.02	16.02	15.76	2.90	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	8.92	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.02	0.00	0.02	69.56	ppb
Cadmium	106-1	0.65	0.81	-0.43	0.34	195.15	ppb
Cadmium	111-1	0.05	0.06	-0.03	0.03	189.89	ppb
Calcium	43-1	261576.27	268348.97	262602.31	264175.85	1.38	ppb
Calcium	44-1	257364.70	261162.83	256279.86	258269.13	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.02	0.02	0.03	30.81	ppb
Cobalt	59-2	0.01	0.03	0.03	0.02	36.07	ppb
Copper	63-2	0.30	0.39	0.34	0.34	13.39	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				104		%
Holmium	165-2				100		%
Indium	115-1				104		%
Indium	115-2				95		%
Iron	54-2	597.08	624.17	618.72	613.32	2.34	ppb
Iron	56-2	626.84	664.04	656.60	649.16	3.03	ppb
Iron	57-2	602.59	639.71	613.31	618.54	3.09	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.09	0.09	0.69	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.10	0.09	2.40	ppb
Lead	208-1	0.09	0.09	0.09	0.09	1.23	ppb
Lithium	6-1				105		%
Magnesium	24-2	73095.12	76229.47	74501.88	74608.83	2.10	ppb
Manganese	55-2	78.88	83.31	81.60	81.27	2.75	ppb
Molybdenum	94-1	0.29	0.32	0.30	0.31	6.07	ppb
Molybdenum	95-1	0.29	0.29	0.30	0.29	1.52	ppb
Molybdenum	96-1	0.28	0.29	0.32	0.30	7.69	ppb
Molybdenum	97-1	0.29	0.28	0.30	0.29	3.44	ppb
Molybdenum	98-1	0.28	0.28	0.31	0.29	6.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.18	0.26	0.25	0.23	20.32	ppb
Phosphorus	31-2	45.67	52.06	46.82	48.18	7.06	ppb
Potassium	39-2	2922.64	3048.58	3015.27	2995.49	2.18	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				106		%
Scandium	45-2				100		%
Selenium	82-1	0.43	0.86	0.44	0.58	42.25	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-1.01	-0.58	-0.40	-0.66		ppb
Silicon	28-1	5630.74	5720.98	5666.99	5672.90	0.80	ppb
Silver	107-1	0.02	0.02	0.02	0.02	5.00	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.64	ppb
Sodium	23-2	26267.32	26970.41	26228.28	26488.67	1.58	ppb
Strontium	86-1	13709.95	14363.05	14570.90	14214.63	3.16	ppb
Strontium	88-1	13486.10	13991.05	14519.19	13998.78	3.69	ppb
Sulfur	34-1	274887.57	276201.25	275113.55	275400.79	0.26	ppb
Terbium	159-1				105		%
Terbium	159-2				99		%
Thallium	203-1	0.00	0.00	0.00	0.00	27.60	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	27.39	ppb
Tin	118-1	0.35	0.39	0.37	0.37	5.88	ppb
Titanium	47-1	0.55	0.62	0.51	0.56	9.71	ppb
Uranium	238-1	0.13	0.13	0.13	0.13	0.63	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.06	0.05	17.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				99		%
Zinc	66-2	1.02	1.00	0.89	0.97	7.14	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	3.18	ppb
Zirconium	91-1	0.03	0.04	0.03	0.03	17.91	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.62	6.65	6.57	6.61	0.60	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	18.14	ppb
Arsenic	75-2	1.36	1.54	1.67	1.52	10.02	ppb
Barium	135-1	14.82	14.70	15.06	14.86	1.22	ppb
Barium	137-1	15.03	14.98	15.22	15.08	0.82	ppb
Beryllium	9-1	0.02	0.02	0.01	0.01	21.13	ppb
Bismuth	209-1				94		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	0.02	0.04	37.10	ppb
Cadmium	106-1	-0.05	0.36	0.15	0.15	135.56	ppb
Cadmium	111-1	-0.01	0.02	0.01	0.01	160.38	ppb
Calcium	43-1	383767.13	381327.99	383873.87	382989.66	0.38	ppb
Calcium	44-1	376023.50	373129.58	374270.19	374474.42	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.04	0.00	-0.02		ppb
Cobalt	59-2	0.07	0.07	0.08	0.08	5.99	ppb
Copper	63-2	0.30	0.28	0.32	0.30	7.89	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				106		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	54-2	2483.70	2495.46	2511.31	2496.82	0.55	ppb
Iron	56-2	2577.34	2619.04	2584.67	2593.68	0.86	ppb
Iron	57-2	2495.28	2511.28	2483.79	2496.78	0.55	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.07	0.07	5.44	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.06	0.05	0.06	7.42	ppb
Lead	208-1	0.07	0.07	0.07	0.07	0.72	ppb
Lithium	6-1				105		%
Magnesium	24-2	101062.16	101155.85	98927.86	100381.95	1.26	ppb
Manganese	55-2	170.37	172.30	169.36	170.68	0.88	ppb
Molybdenum	94-1	0.94	0.97	0.91	0.94	3.21	ppb
Molybdenum	95-1	1.02	1.03	1.05	1.03	1.78	ppb
Molybdenum	96-1	0.99	0.95	1.04	0.99	4.72	ppb
Molybdenum	97-1	1.02	1.03	1.05	1.04	1.28	ppb
Molybdenum	98-1	0.97	1.00	1.00	0.99	1.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.61	0.51	0.60	0.58	9.41	ppb
Phosphorus	31-2	14.30	14.53	10.47	13.10	17.42	ppb
Potassium	39-2	4671.69	4708.25	4648.15	4676.03	0.65	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				105		%
Scandium	45-2				101		%
Selenium	82-1	0.25	0.20	0.58	0.34	61.23	ppb
Selenium	77-2	0.68	0.00	0.69	0.46	86.61	ppb
Selenium	78-2	-0.81	0.18	-1.01	-0.54		ppb
Silicon	28-1	6837.13	6790.12	6795.99	6807.75	0.38	ppb
Silver	107-1	0.02	0.01	0.02	0.02	23.01	ppb
Silver	109-1	0.01	0.01	0.01	0.01	18.35	ppb
Sodium	23-2	85708.79	84184.47	83981.49	84624.91	1.12	ppb
Strontium	86-1	12792.01	12909.16	13054.53	12918.57	1.02	ppb
Strontium	88-1	12991.37	12831.93	12955.48	12926.26	0.65	ppb
Sulfur	34-1	400941.66	405278.66	403383.98	403201.43	0.54	ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	33.41	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	31.86	ppb
Tin	118-1	0.19	0.22	0.20	0.20	7.82	ppb
Titanium	47-1	0.66	0.65	0.67	0.66	2.10	ppb
Uranium	238-1	0.18	0.19	0.19	0.19	2.04	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.07	0.07	0.09	0.08	12.89	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				101		%
Zinc	66-2	0.01	0.00	0.02	0.01	96.69	ppb
Zirconium	90-1	0.06	0.06	0.06	0.06	3.19	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	6.01	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48369.21	47786.49	47431.30	47862.33	0.99	ppb
Antimony	121-1	507.38	498.89	498.35	501.54	1.01	ppb
Arsenic	75-2	496.39	499.79	485.40	493.86	1.52	ppb
Barium	135-1	2557.41	2554.87	2562.01	2558.09	0.14	ppb
Barium	137-1	2561.76	2558.85	2543.24	2554.62	0.39	ppb
Beryllium	9-1	486.50	502.47	491.42	493.47	1.66	ppb
Bismuth	209-1				91		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	496.18	495.05	498.41	496.55	0.34	ppb
Cadmium	106-1	503.44	503.68	502.75	503.29	0.10	ppb
Cadmium	111-1	484.64	489.94	501.22	491.93	1.72	ppb
Calcium	43-1	234600.68	239057.24	235431.10	236363.01	1.00	ppb
Calcium	44-1	231354.63	234351.61	233732.01	233146.08	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	506.27	513.58	513.39	511.08	0.81	ppb
Cobalt	59-2	495.28	497.58	500.50	497.79	0.53	ppb
Copper	63-2	4754.52	4685.21	4822.29	4754.00	1.44	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				104		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				91		%
Iron	54-2	119105.80	121234.60	120759.49	120366.63	0.93	ppb
Iron	56-2	118782.58	118218.51	122178.68	119726.59	1.79	ppb
Iron	57-2	119965.69	117927.84	121514.21	119802.58	1.50	ppb
Krypton	83-1						cps
Lead	206-1	2585.85	2659.67	2588.48	2611.33	1.60	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2539.16	2634.80	2535.40	2569.79	2.19	ppb
Lead	208-1	2568.20	2617.25	2565.06	2583.50	1.13	ppb
Lithium	6-1				99		%
Magnesium	24-2	240283.73	242444.92	242746.91	241825.19	0.56	ppb
Manganese	55-2	4910.21	4974.48	5024.51	4969.73	1.15	ppb
Molybdenum	94-1	5081.07	5058.79	5131.34	5090.40	0.73	ppb
Molybdenum	95-1	5083.15	4983.71	5112.08	5059.65	1.33	ppb
Molybdenum	96-1	5065.13	4974.09	5009.43	5016.21	0.91	ppb
Molybdenum	97-1	5064.83	4987.21	5058.38	5036.81	0.86	ppb
Molybdenum	98-1	5026.92	4988.73	5044.79	5020.14	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	457.57	454.43	465.18	459.06	1.20	ppb
Phosphorus	31-2	9832.44	9617.03	9851.91	9767.13	1.33	ppb
Potassium	39-2	118170.40	119381.60	119874.67	119142.22	0.74	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	483.46	487.21	480.71	483.79	0.67	ppb
Selenium	77-2	471.21	508.51	444.82	474.84	6.74	ppb
Selenium	78-2	475.91	464.42	472.60	470.98	1.26	ppb
Silicon	28-1	510.15	518.58	521.51	516.75	1.14	ppb
Silver	107-1	491.60	483.68	481.79	485.69	1.07	ppb
Silver	109-1	488.32	483.39	485.28	485.66	0.51	ppb
Sodium	23-2	236308.25	245862.18	244598.60	242256.34	2.14	ppb
Strontium	86-1	511.81	512.34	511.06	511.73	0.13	ppb
Strontium	88-1	504.24	511.26	506.10	507.20	0.72	ppb
Sulfur	34-1	10277.88	10774.03	10318.11	10456.67	2.64	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	519.84	534.66	524.14	526.21	1.45	ppb
Thallium	205-1	520.84	523.96	520.89	521.90	0.34	ppb
Tin	118-1	509.06	507.97	503.67	506.90	0.56	ppb
Titanium	47-1	5093.55	5097.56	5069.21	5086.77	0.30	ppb
Uranium	238-1	522.30	518.26	516.55	519.04	0.57	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	504.62	506.77	507.40	506.26	0.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				98		%
Zinc	66-2	4770.55	4729.74	4816.06	4772.12	0.90	ppb
Zirconium	90-1	512.39	513.53	513.57	513.16	0.13	ppb
Zirconium	91-1	506.81	510.91	513.56	510.43	0.67	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.34	1.67	1.01	1.34	24.72	ppb
Antimony	121-1	0.16	0.13	0.12	0.14	16.32	ppb
Arsenic	75-2	0.04	0.00	0.02	0.02	110.44	ppb
Barium	135-1	0.12	0.09	0.09	0.10	17.53	ppb
Barium	137-1	0.14	0.09	0.09	0.11	25.59	ppb
Beryllium	9-1	0.17	0.15	0.14	0.15	8.08	ppb
Bismuth	209-1				105		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.04	0.03	0.06	69.29	ppb
Cadmium	106-1	0.46	-0.26	-0.13	0.02	1665.09	ppb
Cadmium	111-1	0.07	0.01	0.02	0.03	110.06	ppb
Calcium	43-1	14.20	7.88	6.61	9.56	42.49	ppb
Calcium	44-1	14.16	10.99	8.00	11.05	27.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.01	0.00	-0.01		ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	6.29	ppb
Copper	63-2	0.34	0.28	0.25	0.29	15.64	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				109		%
Holmium	165-2				102		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	4.23	4.48	3.99	4.23	5.88	ppb
Iron	56-2	4.23	4.22	4.23	4.23	0.11	ppb
Iron	57-2	4.00	2.85	3.02	3.29	18.96	ppb
Krypton	83-1						cps
Lead	206-1	0.30	0.25	0.23	0.26	14.34	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.29	0.26	0.22	0.26	14.11	ppb
Lead	208-1	0.30	0.25	0.23	0.26	13.99	ppb
Lithium	6-1				110		%
Magnesium	24-2	-2.81	-3.35	-2.29	-2.82		ppb
Manganese	55-2	0.19	0.20	0.20	0.19	3.68	ppb
Molybdenum	94-1	0.37	0.29	0.26	0.31	19.43	ppb
Molybdenum	95-1	0.35	0.24	0.21	0.27	26.84	ppb
Molybdenum	96-1	0.34	0.26	0.23	0.28	21.45	ppb
Molybdenum	97-1	0.35	0.28	0.24	0.29	18.53	ppb
Molybdenum	98-1	0.32	0.26	0.20	0.26	22.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.11	0.13	0.16	0.13	17.31	ppb
Phosphorus	31-2	-30.79	-30.98	-26.60	-29.46		ppb
Potassium	39-2	27.87	28.98	26.56	27.81	4.36	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				108		%
Scandium	45-2				103		%
Selenium	82-1	0.16	-0.13	-0.11	-0.03		ppb
Selenium	77-2	0.00	1.34	0.00	0.45	173.21	ppb
Selenium	78-2	-1.01	-0.23	-0.81	-0.68		ppb
Silicon	28-1	1.99	2.61	1.08	1.90	40.65	ppb
Silver	107-1	0.08	0.07	0.05	0.07	19.46	ppb
Silver	109-1	0.08	0.06	0.06	0.07	14.81	ppb
Sodium	23-2	51.02	46.06	46.96	48.02	5.51	ppb
Strontium	86-1	0.09	0.07	0.08	0.08	15.20	ppb
Strontium	88-1	0.12	0.09	0.08	0.10	20.43	ppb
Sulfur	34-1	-800.53	-431.41	-623.80	-618.58		ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.06	0.04	0.04	0.05	20.95	ppb
Thallium	205-1	0.06	0.05	0.04	0.05	14.41	ppb
Tin	118-1	0.08	0.08	0.07	0.08	8.33	ppb
Titanium	47-1	0.25	0.19	0.15	0.19	26.08	ppb
Uranium	238-1	0.02	0.02	0.01	0.02	26.80	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.02	0.02	8.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	0.04	-0.07	-0.16	-0.06		ppb
Zirconium	90-1	0.05	0.04	0.03	0.04	26.01	ppb
Zirconium	91-1	0.05	0.03	0.03	0.04	27.93	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.13	3.26	2.94	3.11	5.11	ppb
Antimony	121-1	0.07	0.06	0.07	0.07	6.78	ppb
Arsenic	75-2	0.25	0.23	0.23	0.24	3.60	ppb
Barium	135-1	32.91	34.13	32.54	33.19	2.51	ppb
Barium	137-1	33.63	33.72	32.53	33.29	1.99	ppb
Beryllium	9-1	0.09	0.08	0.07	0.08	12.26	ppb
Bismuth	209-1				94		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.12	0.13	0.13	8.43	ppb
Cadmium	106-1	0.14	-0.25	-0.51	-0.21		ppb
Cadmium	111-1	0.01	-0.01	-0.03	-0.01		ppb
Calcium	43-1	287266.78	288606.17	280490.48	285454.48	1.52	ppb
Calcium	44-1	284154.46	288557.78	278001.17	283571.14	1.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.00	0.02	0.01	153.04	ppb
Cobalt	59-2	1.72	1.68	1.76	1.72	2.33	ppb
Copper	63-2	0.22	0.22	0.27	0.24	11.29	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				103		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				96		%
Iron	54-2	788.72	774.57	835.21	799.50	3.97	ppb
Iron	56-2	810.53	819.08	863.51	831.04	3.42	ppb
Iron	57-2	789.50	779.10	846.93	805.18	4.54	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.16	0.14	0.16	7.29	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.15	0.15	0.16	13.87	ppb
Lead	208-1	0.17	0.15	0.15	0.16	9.83	ppb
Lithium	6-1				104		%
Magnesium	24-2	71949.33	74160.92	75565.06	73891.77	2.47	ppb
Manganese	55-2	287.98	286.49	303.77	292.74	3.27	ppb
Molybdenum	94-1	4.45	4.23	4.16	4.28	3.51	ppb
Molybdenum	95-1	4.97	4.90	4.96	4.94	0.75	ppb
Molybdenum	96-1	4.90	4.80	4.83	4.84	0.98	ppb
Molybdenum	97-1	5.08	5.00	4.90	4.99	1.84	ppb
Molybdenum	98-1	4.92	4.81	4.88	4.87	1.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.96	1.91	1.89	1.92	1.92	ppb
Phosphorus	31-2	-15.29	-8.71	-19.15	-14.39		ppb
Potassium	39-2	3071.57	3042.90	3253.91	3122.79	3.67	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	0.85	0.67	1.42	0.98	40.37	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.01	-0.42	0.04	-0.13		ppb
Silicon	28-1	7345.78	7549.73	7107.64	7334.38	3.02	ppb
Silver	107-1	0.03	0.02	0.03	0.03	11.05	ppb
Silver	109-1	0.03	0.02	0.02	0.02	11.51	ppb
Sodium	23-2	54729.87	54416.12	57488.65	55544.88	3.04	ppb
Strontium	86-1	11281.11	11069.57	10882.82	11077.83	1.80	ppb
Strontium	88-1	11158.11	11075.93	11003.08	11079.04	0.70	ppb
Sulfur	34-1	228753.71	229758.06	224976.13	227829.30	1.11	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.05	0.05	0.05	0.05	4.34	ppb
Thallium	205-1	0.04	0.05	0.04	0.04	4.94	ppb
Tin	118-1	0.13	0.13	0.11	0.13	10.49	ppb
Titanium	47-1	0.63	0.60	0.61	0.61	2.96	ppb
Uranium	238-1	2.96	3.02	2.92	2.97	1.72	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.03	0.03	3.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	0.54	0.63	0.71	0.63	13.48	ppb
Zirconium	90-1	0.11	0.09	0.09	0.10	12.40	ppb
Zirconium	91-1	0.11	0.09	0.10	0.10	11.20	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.70	8.11	8.02	7.94	2.66	ppb
Antimony	121-1	0.05	0.05	0.06	0.05	4.70	ppb
Arsenic	75-2	1.47	1.40	1.45	1.44	2.24	ppb
Barium	135-1	68.30	68.90	69.02	68.74	0.56	ppb
Barium	137-1	68.80	70.03	68.47	69.10	1.19	ppb
Beryllium	9-1	0.06	0.07	0.05	0.06	17.03	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.19	0.23	0.17	0.20	16.28	ppb
Cadmium	106-1	0.65	0.37	-0.33	0.23	220.64	ppb
Cadmium	111-1	0.06	0.03	-0.02	0.02	201.48	ppb
Calcium	43-1	180861.03	179766.28	178933.39	179853.57	0.54	ppb
Calcium	44-1	177215.60	175796.60	176433.79	176482.00	0.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.13	0.13	0.15	0.14	10.93	ppb
Cobalt	59-2	1.28	1.28	1.29	1.28	0.67	ppb
Copper	63-2	0.19	0.22	0.25	0.22	14.78	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				107		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	557.36	564.39	577.13	566.29	1.77	ppb
Iron	56-2	572.76	594.12	615.56	594.15	3.60	ppb
Iron	57-2	555.11	565.88	575.78	565.59	1.83	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.12	0.12	0.12	1.65	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.13	0.14	0.13	5.91	ppb
Lead	208-1	0.12	0.12	0.12	0.12	0.54	ppb
Lithium	6-1				108		%
Magnesium	24-2	76939.14	79210.62	80114.73	78754.83	2.08	ppb
Manganese	55-2	146.05	147.55	153.44	149.01	2.62	ppb
Molybdenum	94-1	8.90	8.88	9.12	8.96	1.51	ppb
Molybdenum	95-1	10.44	10.70	10.70	10.61	1.43	ppb
Molybdenum	96-1	10.28	10.40	10.40	10.36	0.64	ppb
Molybdenum	97-1	10.54	10.77	10.47	10.59	1.47	ppb
Molybdenum	98-1	10.37	10.47	10.62	10.49	1.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.13	3.17	3.32	3.21	3.06	ppb
Phosphorus	31-2	-14.22	-17.90	-6.05	-12.73		ppb
Potassium	39-2	2811.44	2847.88	2990.18	2883.17	3.28	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	0.53	0.31	0.38	0.41	27.32	ppb
Selenium	77-2	0.65	0.00	0.00	0.22	173.21	ppb
Selenium	78-2	0.13	0.34	0.20	0.22	48.13	ppb
Silicon	28-1	6683.22	6698.36	6650.01	6677.20	0.37	ppb
Silver	107-1	0.02	0.01	0.02	0.02	10.68	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.01	ppb
Sodium	23-2	29692.92	30187.45	30924.82	30268.40	2.05	ppb
Strontium	86-1	6212.77	6296.41	6230.55	6246.58	0.71	ppb
Strontium	88-1	6194.42	6251.36	6221.18	6222.32	0.46	ppb
Sulfur	34-1	130928.09	129938.37	129218.57	130028.34	0.66	ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.05	0.05	0.04	0.05	6.22	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	4.28	ppb
Tin	118-1	0.13	0.11	0.11	0.12	9.32	ppb
Titanium	47-1	0.70	0.67	0.72	0.70	3.48	ppb
Uranium	238-1	14.74	14.92	15.10	14.92	1.21	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.04	0.04	0.05	3.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				104		%
Zinc	66-2	1.81	1.88	1.85	1.84	1.99	ppb
Zirconium	90-1	0.14	0.15	0.15	0.15	3.61	ppb
Zirconium	91-1	0.15	0.16	0.16	0.16	4.47	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.90	5.15	5.31	5.12	4.05	ppb
Antimony	121-1	0.05	0.04	0.04	0.04	20.58	ppb
Arsenic	75-2	1.63	1.67	1.14	1.48	19.87	ppb
Barium	135-1	88.73	72.72	68.32	76.59	14.02	ppb
Barium	137-1	89.06	72.02	69.54	76.87	13.82	ppb
Beryllium	9-1	0.06	0.05	0.04	0.05	23.54	ppb
Bismuth	209-1				90		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.17	0.13	0.16	0.16	11.51	ppb
Cadmium	106-1	0.22	0.80	0.40	0.47	63.07	ppb
Cadmium	111-1	0.04	0.06	0.04	0.05	28.64	ppb
Calcium	43-1	238356.22	185557.10	182787.48	202233.60	15.48	ppb
Calcium	44-1	232551.15	184073.42	177023.65	197882.74	15.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	-0.01	-0.03	0.00		ppb
Cobalt	59-2	1.25	1.27	1.25	1.26	1.21	ppb
Copper	63-2	0.21	0.20	0.19	0.20	5.47	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				100		%
Holmium	165-2				102		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	596.94	577.31	574.64	582.96	2.09	ppb
Iron	56-2	609.02	618.26	604.11	610.46	1.18	ppb
Iron	57-2	602.73	580.80	572.72	585.42	2.65	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.12	0.11	0.13	20.97	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.12	0.12	0.13	17.43	ppb
Lead	208-1	0.17	0.12	0.11	0.13	22.40	ppb
Lithium	6-1				102		%
Magnesium	24-2	81103.93	82651.59	81353.61	81703.04	1.02	ppb
Manganese	55-2	154.60	152.55	148.67	151.94	1.98	ppb
Molybdenum	94-1	11.69	9.23	8.94	9.95	15.18	ppb
Molybdenum	95-1	13.87	11.09	10.52	11.83	15.15	ppb
Molybdenum	96-1	13.31	10.51	10.31	11.38	14.76	ppb
Molybdenum	97-1	13.95	10.95	10.72	11.87	15.16	ppb
Molybdenum	98-1	13.60	10.88	10.37	11.62	14.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.92	3.09	2.97	3.00	2.92	ppb
Phosphorus	31-2	-15.76	-20.43	-19.08	-18.42		ppb
Potassium	39-2	3045.84	3002.29	2954.85	3000.99	1.52	ppb
Rhodium	103-1				91		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				102		%
Selenium	82-1	0.13	0.56	0.09	0.26	100.78	ppb
Selenium	77-2	0.69	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	0.60	-0.81	-0.42	-0.21		ppb
Silicon	28-1	8719.97	6986.40	6752.43	7486.27	14.36	ppb
Silver	107-1	0.02	0.02	0.01	0.02	10.87	ppb
Silver	109-1	0.02	0.01	0.01	0.01	33.73	ppb
Sodium	23-2	32308.11	31997.43	32098.64	32134.73	0.49	ppb
Strontium	86-1	8583.85	6696.01	6470.25	7250.03	16.01	ppb
Strontium	88-1	8504.11	6734.24	6427.47	7221.94	15.52	ppb
Sulfur	34-1	177637.20	135491.84	132166.60	148431.88	17.08	ppb
Terbium	159-1				98		%
Terbium	159-2				101		%
Thallium	203-1	0.05	0.03	0.04	0.04	20.88	ppb
Thallium	205-1	0.06	0.04	0.04	0.05	24.82	ppb
Tin	118-1	0.30	0.22	0.21	0.25	20.90	ppb
Titanium	47-1	0.82	0.62	0.59	0.68	18.92	ppb
Uranium	238-1	19.19	15.12	14.91	16.41	14.73	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.03	0.04	28.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				102		%
Zinc	66-2	1.16	1.04	1.16	1.12	6.02	ppb
Zirconium	90-1	0.15	0.12	0.12	0.13	12.90	ppb
Zirconium	91-1	0.17	0.13	0.11	0.13	23.04	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.44	8.55	8.26	8.75	7.08	ppb
Antimony	121-1	0.01	0.02	0.01	0.01	2.66	ppb
Arsenic	75-2	0.12	0.06	0.03	0.07	69.42	ppb
Barium	135-1	24.01	20.87	21.00	21.96	8.10	ppb
Barium	137-1	23.91	20.57	21.27	21.92	8.02	ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	11.89	ppb
Bismuth	209-1				91		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.07	0.12	0.10	24.62	ppb
Cadmium	106-1	1.00	0.68	0.77	0.81	20.18	ppb
Cadmium	111-1	0.09	0.06	0.06	0.07	19.16	ppb
Calcium	43-1	299306.88	260158.30	263340.98	274268.72	7.93	ppb
Calcium	44-1	292491.28	250026.37	255364.00	265960.55	8.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	-0.04	-0.01		ppb
Cobalt	59-2	0.05	0.04	0.05	0.05	7.81	ppb
Copper	63-2	0.21	0.22	0.26	0.23	12.17	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				101		%
Holmium	165-2				100		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	1960.09	2008.31	1977.53	1981.97	1.23	ppb
Iron	56-2	2079.03	2095.23	2042.56	2072.28	1.30	ppb
Iron	57-2	2029.37	2013.68	1958.88	2000.64	1.85	ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.09	0.09	0.10	19.66	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.09	0.09	0.10	15.59	ppb
Lead	208-1	0.12	0.10	0.09	0.10	13.80	ppb
Lithium	6-1				101		%
Magnesium	24-2	91021.49	91160.03	90680.92	90954.15	0.27	ppb
Manganese	55-2	46.34	46.56	46.67	46.52	0.37	ppb
Molybdenum	94-1	7.98	6.88	7.13	7.33	7.89	ppb
Molybdenum	95-1	9.41	8.11	8.55	8.69	7.62	ppb
Molybdenum	96-1	9.17	7.85	8.21	8.41	8.08	ppb
Molybdenum	97-1	9.16	8.07	8.62	8.62	6.30	ppb
Molybdenum	98-1	9.18	8.10	8.32	8.53	6.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.20	0.19	0.16	0.18	11.98	ppb
Phosphorus	31-2	-3.62	-14.60	-15.32	-11.18		ppb
Potassium	39-2	4573.69	4549.97	4526.80	4550.15	0.52	ppb
Rhodium	103-1				92		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	0.14	0.63	0.47	0.41	60.61	ppb
Selenium	77-2	0.69	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.60	0.02	-0.01	-0.20		ppb
Silicon	28-1	11355.07	9777.59	9997.06	10376.57	8.23	ppb
Silver	107-1	0.02	0.02	0.04	0.03	31.32	ppb
Silver	109-1	0.02	0.01	0.02	0.02	13.10	ppb
Sodium	23-2	112626.38	113541.14	111807.76	112658.43	0.77	ppb
Strontium	86-1	23366.41	20108.11	21055.28	21509.93	7.79	ppb
Strontium	88-1	23062.35	20296.15	20686.94	21348.48	7.01	ppb
Sulfur	34-1	266789.45	231994.63	237003.19	245262.43	7.67	ppb
Terbium	159-1				98		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.01	0.01	0.01	48.81	ppb
Thallium	205-1	0.02	0.01	0.01	0.01	17.29	ppb
Tin	118-1	0.20	0.12	0.16	0.16	22.64	ppb
Titanium	47-1	1.08	0.96	0.92	0.99	8.22	ppb
Uranium	238-1	0.69	0.61	0.60	0.63	8.15	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.15	0.16	0.14	0.15	6.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.90	0.93	0.95	0.93	2.95	ppb
Zirconium	90-1	0.12	0.10	0.11	0.11	7.61	ppb
Zirconium	91-1	0.13	0.11	0.11	0.11	12.67	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	302.51	300.07	296.11	299.56	1.08	ppb
Antimony	121-1	0.02	0.03	0.03	0.03	12.55	ppb
Arsenic	75-2	0.44	0.43	0.46	0.44	2.88	ppb
Barium	135-1	15.87	16.10	16.18	16.05	1.00	ppb
Barium	137-1	15.93	16.13	16.22	16.09	0.91	ppb
Beryllium	9-1	0.04	0.05	0.04	0.04	13.99	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.09	0.12	0.09	46.74	ppb
Cadmium	106-1	0.82	0.21	-0.45	0.19	325.00	ppb
Cadmium	111-1	0.08	0.03	-0.03	0.03	194.79	ppb
Calcium	43-1	429922.43	426349.74	444521.03	433597.74	2.22	ppb
Calcium	44-1	419274.93	417331.01	431252.24	422619.40	1.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.73	0.71	0.71	0.72	1.31	ppb
Cobalt	59-2	0.44	0.44	0.44	0.44	0.64	ppb
Copper	63-2	0.71	0.73	0.71	0.72	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				106		%
Holmium	165-2				99		%
Indium	115-1				103		%
Indium	115-2				94		%
Iron	54-2	4367.96	4334.38	4306.90	4336.41	0.71	ppb
Iron	56-2	4491.08	4557.18	4503.59	4517.28	0.78	ppb
Iron	57-2	4314.58	4339.09	4357.19	4336.95	0.49	ppb
Krypton	83-1						cps
Lead	206-1	0.33	0.34	0.34	0.34	1.01	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.30	0.32	0.34	0.32	5.36	ppb
Lead	208-1	0.32	0.33	0.34	0.33	2.98	ppb
Lithium	6-1				105		%
Magnesium	24-2	133753.77	136241.51	131664.04	133886.44	1.71	ppb
Manganese	55-2	114.55	117.64	115.99	116.06	1.33	ppb
Molybdenum	94-1	3.79	3.89	3.92	3.87	1.69	ppb
Molybdenum	95-1	3.87	3.79	3.83	3.83	0.99	ppb
Molybdenum	96-1	3.65	3.75	3.83	3.74	2.40	ppb
Molybdenum	97-1	3.81	3.80	3.82	3.81	0.24	ppb
Molybdenum	98-1	3.75	3.83	3.86	3.81	1.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.38	1.22	1.23	1.28	7.02	ppb
Phosphorus	31-2	25.29	25.61	16.36	22.42	23.41	ppb
Potassium	39-2	5972.78	6054.56	5940.84	5989.40	0.98	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				107		%
Scandium	45-2				101		%
Selenium	82-1	0.35	0.34	0.65	0.45	39.40	ppb
Selenium	77-2	0.69	0.69	0.69	0.69	0.34	ppb
Selenium	78-2	-0.40	-0.40	-0.40	-0.40		ppb
Silicon	28-1	7930.49	7886.38	8002.43	7939.77	0.74	ppb
Silver	107-1	0.02	0.02	0.02	0.02	13.82	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.65	ppb
Sodium	23-2	49599.00	49435.70	49521.56	49518.75	0.16	ppb
Strontium	86-1	12744.10	12749.94	12860.48	12784.84	0.51	ppb
Strontium	88-1	12550.53	12602.39	12665.29	12606.07	0.46	ppb
Sulfur	34-1	505691.71	500285.30	515344.42	507107.14	1.50	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.02	0.02	0.02	9.45	ppb
Thallium	205-1	0.03	0.03	0.02	0.02	12.42	ppb
Tin	118-1	0.33	0.36	0.35	0.35	3.82	ppb
Titanium	47-1	8.04	8.00	8.33	8.12	2.22	ppb
Uranium	238-1	0.38	0.40	0.39	0.39	2.88	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.84	0.86	0.90	0.87	3.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				100		%
Zinc	66-2	1.55	1.40	1.57	1.51	6.04	ppb
Zirconium	90-1	0.37	0.38	0.38	0.37	2.23	ppb
Zirconium	91-1	0.38	0.35	0.39	0.38	6.01	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.29	4.67	5.07	5.01	6.32	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	12.66	ppb
Arsenic	75-2	0.24	0.22	0.16	0.20	19.96	ppb
Barium	135-1	47.11	47.24	47.22	47.19	0.15	ppb
Barium	137-1	48.02	48.57	47.52	48.04	1.10	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	14.28	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.01	0.03	0.02	57.57	ppb
Cadmium	106-1	0.68	0.95	0.18	0.60	64.80	ppb
Cadmium	111-1	0.05	0.07	0.01	0.05	67.15	ppb
Calcium	43-1	324397.24	319993.69	316670.06	320353.66	1.21	ppb
Calcium	44-1	318564.32	309908.03	306442.69	311638.35	2.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.12	0.13	0.13	0.13	4.85	ppb
Cobalt	59-2	0.06	0.05	0.05	0.05	5.91	ppb
Copper	63-2	0.25	0.26	0.24	0.25	4.26	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				101		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	171.90	168.73	164.19	168.27	2.30	ppb
Iron	56-2	167.48	170.17	166.19	167.94	1.21	ppb
Iron	57-2	175.96	175.61	180.85	177.47	1.65	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.08	0.08	3.22	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.08	0.08	5.67	ppb
Lead	208-1	0.08	0.08	0.08	0.08	1.18	ppb
Lithium	6-1				104		%
Magnesium	24-2	87018.40	84644.80	82831.03	84831.41	2.48	ppb
Manganese	55-2	132.82	133.89	131.60	132.77	0.86	ppb
Molybdenum	94-1	0.43	0.41	0.43	0.43	2.49	ppb
Molybdenum	95-1	0.24	0.24	0.24	0.24	1.70	ppb
Molybdenum	96-1	0.24	0.26	0.24	0.25	6.25	ppb
Molybdenum	97-1	0.22	0.22	0.24	0.23	4.31	ppb
Molybdenum	98-1	0.23	0.21	0.22	0.22	5.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.21	0.29	0.25	15.48	ppb
Phosphorus	31-2	13.63	14.75	13.89	14.09	4.15	ppb
Potassium	39-2	5837.73	5884.23	5770.71	5830.89	0.98	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	0.28	0.53	0.66	0.49	39.52	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.41	0.21	-0.41	-0.21		ppb
Silicon	28-1	6233.12	5867.30	5914.20	6004.87	3.31	ppb
Silver	107-1	0.01	0.02	0.02	0.02	16.66	ppb
Silver	109-1	0.01	0.01	0.01	0.01	18.27	ppb
Sodium	23-2	74540.09	73023.42	72653.41	73405.64	1.36	ppb
Strontium	86-1	14531.06	14855.88	14755.98	14714.31	1.13	ppb
Strontium	88-1	14854.45	14937.27	14808.85	14866.86	0.44	ppb
Sulfur	34-1	313110.67	304019.80	302496.19	306542.22	1.87	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.00	0.01	0.01	33.02	ppb
Thallium	205-1	0.00	0.01	0.01	0.01	22.55	ppb
Tin	118-1	0.30	0.29	0.28	0.29	2.79	ppb
Titanium	47-1	0.64	0.66	0.61	0.64	4.35	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	1.49	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.14	0.12	0.13	6.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				101		%
Zinc	66-2	0.10	0.13	0.00	0.08	88.95	ppb
Zirconium	90-1	0.12	0.13	0.13	0.13	6.22	ppb
Zirconium	91-1	0.13	0.13	0.13	0.13	2.37	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	88.08	90.84	90.13	89.68	1.60	ppb
Antimony	121-1	0.23	0.25	0.26	0.25	6.79	ppb
Arsenic	75-2	0.27	0.33	0.25	0.28	13.49	ppb
Barium	135-1	9.51	9.90	10.70	10.04	6.07	ppb
Barium	137-1	9.40	10.00	10.55	9.98	5.77	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	1.84	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.10	0.04	0.09	52.64	ppb
Cadmium	106-1	0.58	0.32	0.02	0.31	91.96	ppb
Cadmium	111-1	0.09	0.08	0.06	0.08	17.63	ppb
Calcium	43-1	451202.88	470942.52	497065.69	473070.36	4.86	ppb
Calcium	44-1	439881.90	463886.21	489257.47	464341.86	5.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.23	0.21	0.23	0.23	4.99	ppb
Cobalt	59-2	0.29	0.30	0.29	0.29	1.97	ppb
Copper	63-2	1.56	1.65	1.58	1.60	2.78	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				105		%
Holmium	165-2				100		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	2527.34	2583.39	2591.28	2567.33	1.36	ppb
Iron	56-2	2619.20	2726.22	2712.55	2685.99	2.17	ppb
Iron	57-2	2527.33	2587.45	2595.43	2570.07	1.45	ppb
Krypton	83-1						cps
Lead	206-1	0.41	0.39	0.43	0.41	4.82	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.37	0.42	0.38	7.06	ppb
Lead	208-1	0.38	0.38	0.42	0.39	6.09	ppb
Lithium	6-1				104		%
Magnesium	24-2	91426.80	93173.56	95401.04	93333.80	2.13	ppb
Manganese	55-2	106.54	109.86	109.75	108.72	1.73	ppb
Molybdenum	94-1	2.41	2.51	2.65	2.52	4.65	ppb
Molybdenum	95-1	2.62	2.79	2.82	2.74	3.92	ppb
Molybdenum	96-1	2.58	2.71	2.79	2.69	3.86	ppb
Molybdenum	97-1	2.66	2.85	2.87	2.79	4.18	ppb
Molybdenum	98-1	2.60	2.70	2.81	2.70	4.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.31	1.38	1.31	1.34	3.00	ppb
Phosphorus	31-2	54.52	55.51	69.69	59.91	14.16	ppb
Potassium	39-2	3876.54	3988.76	4062.01	3975.77	2.35	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				104		%
Scandium	45-2				101		%
Selenium	82-1	0.08	0.39	0.48	0.32	65.94	ppb
Selenium	77-2	0.67	0.70	0.00	0.46	86.65	ppb
Selenium	78-2	-0.81	-0.60	0.22	-0.40		ppb
Silicon	28-1	8782.07	9213.14	9820.50	9271.90	5.63	ppb
Silver	107-1	0.01	0.02	0.01	0.02	18.41	ppb
Silver	109-1	0.01	0.01	0.01	0.01	23.46	ppb
Sodium	23-2	21062.64	21559.43	22012.56	21544.88	2.21	ppb
Strontium	86-1	15379.99	15996.65	16592.38	15989.67	3.79	ppb
Strontium	88-1	15382.76	15918.96	16609.88	15970.53	3.85	ppb
Sulfur	34-1	444163.54	460698.49	490287.81	465049.95	5.02	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.01	0.01	0.01	42.49	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	18.30	ppb
Tin	118-1	0.17	0.16	0.18	0.17	7.36	ppb
Titanium	47-1	2.69	2.75	2.98	2.81	5.32	ppb
Uranium	238-1	0.19	0.20	0.21	0.20	6.20	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.30	0.30	0.28	0.29	3.96	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				100		%
Zinc	66-2	4.81	4.80	4.84	4.82	0.45	ppb
Zirconium	90-1	0.11	0.13	0.13	0.12	6.37	ppb
Zirconium	91-1	0.13	0.13	0.14	0.13	3.69	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.80	11.64	12.56	12.33	4.94	ppb
Antimony	121-1	1.49	1.40	1.48	1.46	3.29	ppb
Arsenic	75-2	0.08	0.07	0.14	0.10	39.40	ppb
Barium	135-1	35.93	33.87	35.95	35.25	3.38	ppb
Barium	137-1	36.44	34.47	36.27	35.73	3.05	ppb
Beryllium	9-1	0.04	0.02	0.02	0.03	30.06	ppb
Bismuth	209-1				95		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.02	0.02	0.02	16.40	ppb
Cadmium	106-1	1.08	0.50	1.07	0.88	37.52	ppb
Cadmium	111-1	0.09	0.04	0.09	0.07	39.06	ppb
Calcium	43-1	31801.44	30141.61	31727.29	31223.45	3.00	ppb
Calcium	44-1	31374.68	29435.98	31222.45	30677.70	3.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.02	-0.01	0.00		ppb
Cobalt	59-2	0.08	0.08	0.08	0.08	5.22	ppb
Copper	63-2	2.46	2.46	2.43	2.45	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				102		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	4.67	3.75	3.51	3.98	15.44	ppb
Iron	56-2	3.55	3.62	3.58	3.58	0.98	ppb
Iron	57-2	3.46	4.51	4.20	4.06	13.24	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.07	0.08	0.08	8.42	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.08	0.08	0.08	6.69	ppb
Lead	208-1	0.09	0.07	0.08	0.08	8.55	ppb
Lithium	6-1				105		%
Magnesium	24-2	10649.41	10522.33	10715.51	10629.08	0.92	ppb
Manganese	55-2	6.08	6.15	6.13	6.12	0.52	ppb
Molybdenum	94-1	0.45	0.37	0.43	0.42	10.58	ppb
Molybdenum	95-1	0.43	0.44	0.45	0.44	1.83	ppb
Molybdenum	96-1	0.44	0.45	0.44	0.44	1.00	ppb
Molybdenum	97-1	0.43	0.44	0.46	0.44	2.58	ppb
Molybdenum	98-1	0.45	0.42	0.44	0.44	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.03	1.02	1.03	1.03	0.85	ppb
Phosphorus	31-2	224.32	201.09	181.63	202.35	10.56	ppb
Potassium	39-2	1896.91	1850.86	1856.97	1868.25	1.34	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	0.23	0.23	-0.07	0.13	129.26	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.80	-0.41	-0.20	-0.47		ppb
Silicon	28-1	2645.75	2512.18	2612.46	2590.13	2.68	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.13	ppb
Silver	109-1	0.02	0.01	0.02	0.02	24.45	ppb
Sodium	23-2	45516.56	45751.67	45244.16	45504.13	0.56	ppb
Strontium	86-1	173.17	164.61	172.61	170.13	2.81	ppb
Strontium	88-1	179.42	170.33	177.31	175.69	2.71	ppb
Sulfur	34-1	18560.43	17033.25	17628.44	17740.71	4.34	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.02	0.01	0.02	0.02	17.90	ppb
Thallium	205-1	0.01	0.02	0.02	0.02	16.05	ppb
Tin	118-1	0.10	0.08	0.10	0.09	7.66	ppb
Titanium	47-1	0.40	0.41	0.41	0.41	0.72	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	11.40	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.09	0.09	0.09	1.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				99		%
Zinc	66-2	4.09	3.73	3.97	3.93	4.59	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	16.10	ppb
Zirconium	91-1	0.03	0.02	0.03	0.02	23.97	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.79	22.10	21.90	22.26	2.08	ppb
Antimony	121-1	0.16	0.28	40.60	13.68	170.47	ppb
Arsenic	75-2	0.16	0.13	0.15	0.15	9.04	ppb
Barium	135-1	37.50	64.34	9290.07	3130.64	170.39	ppb
Barium	137-1	37.97	64.04	9315.25	3139.09	170.39	ppb
Beryllium	9-1	0.03	0.08	2.97	1.03	164.28	ppb
Bismuth	209-1				52		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.09	13.81	4.64	171.42	ppb
Cadmium	106-1	1.00	1.57	11.85	4.80	127.14	ppb
Cadmium	111-1	0.09	0.14	2.17	0.80	148.19	ppb
Calcium	43-1	29456.11	47067.80	4898101.38	1658208.43	169.21	ppb
Calcium	44-1	29026.88	46401.18	4712789.44	1596072.50	169.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.07	-0.05	-0.03	-0.05		ppb
Cobalt	59-2	0.14	0.16	0.16	0.15	8.71	ppb
Copper	63-2	77.62	76.04	77.15	76.94	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				57		%
Holmium	165-2				101		%
Indium	115-1				57		%
Indium	115-2				96		%
Iron	54-2	9.34	8.69	8.27	8.77	6.17	ppb
Iron	56-2	8.55	8.48	8.58	8.54	0.63	ppb
Iron	57-2	8.31	8.67	9.80	8.92	8.69	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.39	59.39	19.99	170.66	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.21	0.40	58.06	19.56	170.49	ppb
Lead	208-1	0.20	0.39	58.01	19.54	170.55	ppb
Lithium	6-1				59		%
Magnesium	24-2	10856.88	10930.86	10930.36	10906.04	0.39	ppb
Manganese	55-2	9.69	9.52	9.50	9.57	1.06	ppb
Molybdenum	94-1	0.41	0.68	100.49	33.86	170.44	ppb
Molybdenum	95-1	0.43	0.70	104.76	35.30	170.43	ppb
Molybdenum	96-1	0.43	0.67	100.41	33.84	170.39	ppb
Molybdenum	97-1	0.42	0.80	101.20	34.14	170.11	ppb
Molybdenum	98-1	0.43	0.69	97.42	32.84	170.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.51	0.44	0.55	0.50	11.06	ppb
Phosphorus	31-2	211.88	187.74	205.56	201.73	6.20	ppb
Potassium	39-2	1926.52	1901.79	1932.11	1920.14	0.84	ppb
Rhodium	103-1				55		%
Rhodium	103-2				100		%
Scandium	45-1				57		%
Scandium	45-2				101		%
Selenium	82-1	-0.08	0.33	76.91	25.72	172.35	ppb
Selenium	77-2	0.69	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.40	-0.60	-0.38	-0.46		ppb
Silicon	28-1	2474.75	3976.44	408938.70	138463.30	169.17	ppb
Silver	107-1	0.02	0.03	4.63	1.56	170.58	ppb
Silver	109-1	0.01	0.03	4.94	1.66	170.74	ppb
Sodium	23-2	47223.92	46459.63	46449.28	46710.94	0.95	ppb
Strontium	86-1	163.75	265.73	37724.10	12717.86	170.28	ppb
Strontium	88-1	171.62	279.44	39731.05	13394.03	170.29	ppb
Sulfur	34-1	16615.84	32004.18	4214261.55	1420960.52	170.24	ppb
Terbium	159-1				56		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.03	5.76	1.93	171.25	ppb
Thallium	205-1	0.01	0.03	5.29	1.78	170.91	ppb
Tin	118-1	0.10	0.28	60.89	20.42	171.62	ppb
Titanium	47-1	0.45	0.59	72.60	24.55	169.55	ppb
Uranium	238-1	0.03	0.06	7.68	2.59	170.17	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.08	0.08	0.08	4.87	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				58		%
Yttrium	89-2				99		%
Zinc	66-2	12.95	13.35	13.54	13.28	2.24	ppb
Zirconium	90-1	0.02	0.06	7.86	2.65	170.48	ppb
Zirconium	91-1	0.02	0.05	9.07	3.05	171.11	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.00	20.77	21.35	21.37	2.88	ppb
Antimony	121-1	0.15	0.16	0.16	0.16	2.75	ppb
Arsenic	75-2	0.13	0.15	0.09	0.12	22.24	ppb
Barium	135-1	37.81	38.98	39.20	38.67	1.94	ppb
Barium	137-1	37.56	39.07	39.21	38.61	2.36	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	3.04	ppb
Bismuth	209-1				98		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.09	0.05	0.06	60.86	ppb
Cadmium	106-1	0.94	0.67	0.52	0.71	30.24	ppb
Cadmium	111-1	0.08	0.06	0.05	0.06	29.91	ppb
Calcium	43-1	28915.97	30268.23	30200.33	29794.85	2.56	ppb
Calcium	44-1	28103.13	29256.23	29651.04	29003.47	2.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.04	-0.03	-0.04	-0.04		ppb
Cobalt	59-2	0.16	0.13	0.13	0.14	11.75	ppb
Copper	63-2	78.75	77.00	77.64	77.80	1.14	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				106		%
Holmium	165-2				100		%
Indium	115-1				104		%
Indium	115-2				95		%
Iron	54-2	8.75	8.38	8.75	8.63	2.47	ppb
Iron	56-2	8.82	8.59	8.60	8.67	1.52	ppb
Iron	57-2	9.90	8.97	8.84	9.24	6.24	ppb
Krypton	83-1						cps
Lead	206-1	0.21	0.23	0.20	0.21	6.64	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.20	0.22	0.20	6.30	ppb
Lead	208-1	0.19	0.22	0.20	0.20	7.12	ppb
Lithium	6-1				107		%
Magnesium	24-2	11213.94	10908.90	11023.81	11048.88	1.39	ppb
Manganese	55-2	9.88	9.32	10.07	9.76	4.00	ppb
Molybdenum	94-1	0.38	0.40	0.42	0.40	5.20	ppb
Molybdenum	95-1	0.41	0.43	0.44	0.43	4.27	ppb
Molybdenum	96-1	0.41	0.41	0.45	0.42	4.60	ppb
Molybdenum	97-1	0.43	0.48	0.47	0.46	5.46	ppb
Molybdenum	98-1	0.44	0.44	0.44	0.44	0.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.53	0.56	0.53	0.54	3.27	ppb
Phosphorus	31-2	189.97	200.16	199.44	196.52	2.90	ppb
Potassium	39-2	1958.46	1919.81	1912.81	1930.36	1.27	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.19	0.51	0.62	0.44	51.31	ppb
Selenium	77-2	1.39	0.00	0.71	0.70	99.53	ppb
Selenium	78-2	0.01	0.01	0.23	0.08	152.65	ppb
Silicon	28-1	2395.55	2511.99	2529.38	2478.97	2.94	ppb
Silver	107-1	0.01	0.02	0.02	0.02	7.49	ppb
Silver	109-1	0.01	0.01	0.01	0.01	7.01	ppb
Sodium	23-2	47233.53	46609.79	46985.18	46942.83	0.67	ppb
Strontium	86-1	164.77	169.69	170.65	168.37	1.87	ppb
Strontium	88-1	170.15	174.53	175.47	173.38	1.64	ppb
Sulfur	34-1	16008.25	16717.13	16140.47	16288.62	2.31	ppb
Terbium	159-1				104		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.01	0.01	0.01	8.33	ppb
Thallium	205-1	0.01	0.02	0.02	0.02	8.57	ppb
Tin	118-1	0.10	0.13	0.12	0.12	13.98	ppb
Titanium	47-1	0.40	0.37	0.41	0.40	6.15	ppb
Uranium	238-1	0.03	0.04	0.04	0.04	7.67	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.10	0.08	0.09	10.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				99		%
Zinc	66-2	13.47	13.07	12.80	13.12	2.57	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	12.34	ppb
Zirconium	91-1	0.02	0.02	0.03	0.02	21.98	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47797.48	47901.50	47841.13	47846.71	0.11	ppb
Antimony	121-1	495.03	508.13	495.93	499.70	1.46	ppb
Arsenic	75-2	505.28	496.28	494.97	498.84	1.13	ppb
Barium	135-1	2510.93	2611.33	2552.65	2558.30	1.97	ppb
Barium	137-1	2507.16	2580.90	2506.14	2531.40	1.69	ppb
Beryllium	9-1	497.41	493.55	504.79	498.58	1.15	ppb
Bismuth	209-1				92		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	502.54	514.34	491.19	502.69	2.30	ppb
Cadmium	106-1	503.78	515.50	501.31	506.87	1.49	ppb
Cadmium	111-1	492.47	503.51	498.10	498.03	1.11	ppb
Calcium	43-1	236232.42	235559.22	237960.46	236584.03	0.52	ppb
Calcium	44-1	238221.45	233752.98	239415.53	237129.99	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	513.24	515.90	516.98	515.37	0.37	ppb
Cobalt	59-2	506.06	503.46	497.06	502.19	0.92	ppb
Copper	63-2	4828.40	4748.60	4809.15	4795.39	0.87	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				98		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	120407.43	119828.39	119814.49	120016.77	0.28	ppb
Iron	56-2	119599.51	119701.41	119364.86	119555.26	0.14	ppb
Iron	57-2	121121.69	120418.14	120308.37	120616.07	0.37	ppb
Krypton	83-1						cps
Lead	206-1	2581.93	2589.57	2646.23	2605.91	1.35	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2580.27	2602.24	2686.19	2622.90	2.13	ppb
Lead	208-1	2577.61	2591.31	2646.93	2605.28	1.41	ppb
Lithium	6-1				99		%
Magnesium	24-2	241970.47	239477.85	242571.72	241340.01	0.68	ppb
Manganese	55-2	4960.81	4923.80	4962.71	4949.11	0.44	ppb
Molybdenum	94-1	5158.46	5132.50	5173.16	5154.71	0.40	ppb
Molybdenum	95-1	5124.81	5051.25	5089.42	5088.49	0.72	ppb
Molybdenum	96-1	5127.92	5043.13	5031.10	5067.38	1.04	ppb
Molybdenum	97-1	5138.43	5067.68	5099.82	5101.97	0.69	ppb
Molybdenum	98-1	5150.47	5126.61	5147.21	5141.43	0.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	463.11	456.32	458.59	459.34	0.75	ppb
Phosphorus	31-2	9873.68	9610.48	10013.18	9832.45	2.08	ppb
Potassium	39-2	118595.87	119373.59	121372.99	119780.82	1.20	ppb
Rhodium	103-1				93		%
Rhodium	103-2				90		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	491.91	490.97	492.77	491.88	0.18	ppb
Selenium	77-2	473.86	507.59	490.05	490.50	3.44	ppb
Selenium	78-2	463.54	478.60	468.32	470.15	1.64	ppb
Silicon	28-1	515.73	516.02	517.34	516.37	0.17	ppb
Silver	107-1	477.43	492.30	479.66	483.13	1.66	ppb
Silver	109-1	484.19	491.74	482.12	486.02	1.04	ppb
Sodium	23-2	246593.07	242397.87	246299.06	245096.66	0.96	ppb
Strontium	86-1	524.58	529.18	514.24	522.67	1.46	ppb
Strontium	88-1	503.83	514.33	505.79	507.98	1.10	ppb
Sulfur	34-1	10912.18	10298.02	10486.89	10565.70	2.98	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	523.74	515.47	537.76	525.66	2.14	ppb
Thallium	205-1	518.36	510.77	528.01	519.05	1.66	ppb
Tin	118-1	498.99	518.12	501.28	506.13	2.06	ppb
Titanium	47-1	5080.08	4982.82	5067.63	5043.51	1.05	ppb
Uranium	238-1	523.87	524.07	532.18	526.71	0.90	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	517.09	514.61	516.91	516.20	0.27	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				98		%
Zinc	66-2	4854.52	4773.62	4823.68	4817.27	0.85	ppb
Zirconium	90-1	519.47	509.58	516.08	515.04	0.98	ppb
Zirconium	91-1	511.45	516.82	512.65	513.64	0.55	ppb

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Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.50	0.14	0.41	0.35	53.11	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	6.91	ppb
Arsenic	75-2	-0.01	-0.01	-0.02	-0.01		ppb
Barium	135-1	0.01	0.01	0.00	0.00	91.30	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.08	0.07	0.07	0.07	9.62	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.05	-0.02	0.02	145.23	ppb
Cadmium	106-1	-0.40	-0.54	0.87	-0.02		ppb
Cadmium	111-1	-0.03	-0.04	0.07	0.00	6980.41	ppb
Calcium	43-1	-0.66	0.20	0.39	-0.03		ppb
Calcium	44-1	-2.21	-1.00	-0.83	-1.34		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.03	-0.05	-0.03		ppb
Cobalt	59-2	0.01	0.00	0.01	0.01	61.38	ppb
Copper	63-2	0.10	0.10	0.08	0.09	11.68	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				109		%
Holmium	165-2				104		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	1.79	1.24	1.55	1.53	18.05	ppb
Iron	56-2	1.37	1.42	1.55	1.45	6.35	ppb
Iron	57-2	1.24	0.53	1.51	1.09	46.08	ppb
Krypton	83-1						cps
Lead	206-1	0.10	0.11	0.09	0.10	7.72	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.10	0.08	0.09	9.61	ppb
Lead	208-1	0.10	0.10	0.09	0.10	3.33	ppb
Lithium	6-1				111		%
Magnesium	24-2	-7.38	-8.01	-7.33	-7.58		ppb
Manganese	55-2	0.06	0.04	0.05	0.05	16.74	ppb
Molybdenum	94-1	0.05	0.04	0.04	0.04	16.26	ppb
Molybdenum	95-1	0.03	0.03	0.02	0.03	20.21	ppb
Molybdenum	96-1	0.03	0.03	0.02	0.03	18.90	ppb
Molybdenum	97-1	0.03	0.02	0.02	0.02	33.23	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	16.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.25	0.25	0.23	0.25	4.06	ppb
Phosphorus	31-2	-24.40	-26.16	-17.90	-22.82		ppb
Potassium	39-2	27.28	24.36	20.96	24.20	13.07	ppb
Rhodium	103-1				108		%
Rhodium	103-2				106		%
Scandium	45-1				109		%
Scandium	45-2				105		%
Selenium	82-1	-0.37	-0.02	-0.03	-0.14		ppb
Selenium	77-2	0.00	0.00	0.66	0.22	173.21	ppb
Selenium	78-2	-0.22	-0.62	-0.24	-0.36		ppb
Silicon	28-1	-4.12	-3.57	-3.41	-3.70		ppb
Silver	107-1	0.02	0.02	0.02	0.02	15.40	ppb
Silver	109-1	0.02	0.02	0.02	0.02	7.28	ppb
Sodium	23-2	31.43	30.68	30.62	30.91	1.45	ppb
Strontium	86-1	0.02	0.03	0.02	0.02	25.78	ppb
Strontium	88-1	0.02	0.02	0.02	0.02	4.77	ppb
Sulfur	34-1	74.53	323.02	-269.31	42.75	695.80	ppb
Terbium	159-1				109		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.01	0.01	0.01	20.13	ppb
Thallium	205-1	0.02	0.02	0.01	0.01	12.65	ppb
Tin	118-1	0.06	0.05	0.06	0.06	9.66	ppb
Titanium	47-1	0.01	-0.01	0.01	0.00	2754.98	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	138.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				104		%
Zinc	66-2	-0.18	-0.20	-0.17	-0.18		ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	57.33	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	57.17	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.12	0.14	-0.16	0.03	499.83	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.64	ppb
Arsenic	75-2	0.00	0.00	-0.02	-0.01		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	0.04	0.03	0.04	0.04	12.06	ppb
Bismuth	209-1				103		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.03	0.07	0.02	211.48	ppb
Cadmium	106-1	0.04	-0.59	1.05	0.17	493.25	ppb
Cadmium	111-1	0.01	-0.04	0.08	0.02	403.54	ppb
Calcium	43-1	-0.70	-0.05	-0.06	-0.27		ppb
Calcium	44-1	-1.49	-1.28	-0.89	-1.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.24	0.25	0.28	0.26	8.02	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	31.26	ppb
Copper	63-2	0.12	0.08	0.14	0.11	27.24	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				108		%
Holmium	165-2				101		%
Indium	115-1				109		%
Indium	115-2				100		%
Iron	54-2	1.66	1.55	1.59	1.60	3.60	ppb
Iron	56-2	1.55	1.66	1.93	1.71	11.30	ppb
Iron	57-2	0.74	1.64	3.59	1.99	73.38	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.04	0.04	0.05	14.59	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.04	0.04	19.81	ppb
Lead	208-1	0.05	0.05	0.05	0.05	3.27	ppb
Lithium	6-1				109		%
Magnesium	24-2	-6.54	-6.76	-5.93	-6.41		ppb
Manganese	55-2	0.09	0.07	0.08	0.08	11.18	ppb
Molybdenum	94-1	0.02	0.01	0.04	0.02	64.23	ppb
Molybdenum	95-1	0.02	0.01	0.01	0.01	65.72	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	5.48	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	18.11	ppb
Molybdenum	98-1	0.01	0.01	0.00	0.00	43.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.45	0.40	0.44	0.43	5.79	ppb
Phosphorus	31-2	-30.12	-29.49	-29.18	-29.60		ppb
Potassium	39-2	23.41	21.88	29.60	24.96	16.37	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				110		%
Scandium	45-2				102		%
Selenium	82-1	-0.01	-0.24	0.05	-0.06		ppb
Selenium	77-2	0.00	0.00	1.41	0.47	173.21	ppb
Selenium	78-2	-0.43	-0.43	-0.80	-0.55		ppb
Silicon	28-1	-4.06	-4.26	-4.40	-4.24		ppb
Silver	107-1	0.01	0.01	0.01	0.01	25.24	ppb
Silver	109-1	0.00	0.01	0.01	0.00	14.96	ppb
Sodium	23-2	34.43	33.56	40.65	36.21	10.67	ppb
Strontium	86-1	0.02	0.01	0.00	0.01	69.71	ppb
Strontium	88-1	0.02	0.02	0.02	0.02	4.10	ppb
Sulfur	34-1	1023.99	834.29	765.18	874.49	15.32	ppb
Terbium	159-1				106		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.01	0.01	0.00	94.33	ppb
Thallium	205-1	0.01	0.00	0.00	0.00	31.05	ppb
Tin	118-1	-0.02	-0.02	-0.01	-0.02		ppb
Titanium	47-1	0.00	0.02	0.00	0.01	146.83	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.00	48.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	-0.25	-0.25	-0.20	-0.23		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	238.46	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	72.21	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10424.31	9760.43	9551.57	9912.10	4.60	ppb
Antimony	121-1	520.54	523.17	591.65	545.12	7.40	ppb
Arsenic	75-2	549.78	516.13	516.91	527.61	3.64	ppb
Barium	135-1	2556.99	2571.79	2886.67	2671.82	6.97	ppb
Barium	137-1	2594.71	2569.13	2898.70	2687.52	6.82	ppb
Beryllium	9-1	490.00	485.02	533.30	502.77	5.28	ppb
Bismuth	209-1				95		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	521.95	516.09	601.33	546.46	8.71	ppb
Cadmium	106-1	524.25	521.19	596.67	547.37	7.81	ppb
Cadmium	111-1	515.31	526.36	595.28	545.65	7.94	ppb
Calcium	43-1	47555.50	47961.68	55947.01	50488.07	9.37	ppb
Calcium	44-1	46975.21	47630.78	54801.02	49802.33	8.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	568.13	537.59	526.76	544.16	3.94	ppb
Cobalt	59-2	565.66	535.61	511.86	537.71	5.01	ppb
Copper	63-2	5576.94	5261.59	5120.96	5319.83	4.39	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				104		%
Holmium	165-2				95		%
Indium	115-1				101		%
Indium	115-2				89		%
Iron	54-2	27754.11	26386.31	25655.64	26598.68	4.00	ppb
Iron	56-2	27323.18	25847.27	25067.36	26079.27	4.39	ppb
Iron	57-2	27776.12	26177.13	25439.87	26464.37	4.51	ppb
Krypton	83-1						cps
Lead	206-1	2523.58	2532.62	2875.71	2643.97	7.59	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2548.80	2524.06	2864.91	2645.92	7.18	ppb
Lead	208-1	2553.85	2534.04	2854.16	2647.35	6.78	ppb
Lithium	6-1				102		%
Magnesium	24-2	55812.97	52060.20	52105.17	53326.11	4.04	ppb
Manganese	55-2	5486.21	5246.80	5054.96	5262.66	4.11	ppb
Molybdenum	94-1	4996.61	5096.62	5696.72	5263.31	7.19	ppb
Molybdenum	95-1	4998.48	4988.85	5756.22	5247.85	8.39	ppb
Molybdenum	96-1	4982.78	4915.99	5800.03	5232.93	9.41	ppb
Molybdenum	97-1	4968.19	4959.28	5787.21	5238.23	9.08	ppb
Molybdenum	98-1	4930.72	5007.33	5735.59	5224.54	8.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	566.88	533.34	513.36	537.86	5.03	ppb
Phosphorus	31-2	10889.60	10230.23	9820.03	10313.29	5.23	ppb
Potassium	39-2	26921.09	25425.44	24784.43	25710.32	4.26	ppb
Rhodium	103-1				97		%
Rhodium	103-2				93		%
Scandium	45-1				103		%
Scandium	45-2				97		%
Selenium	82-1	498.25	498.34	590.18	528.92	10.03	ppb
Selenium	77-2	556.40	519.90	479.59	518.63	7.41	ppb
Selenium	78-2	529.88	476.24	523.08	509.73	5.73	ppb
Silicon	28-1	500.26	509.72	562.65	524.21	6.41	ppb
Silver	107-1	512.98	511.31	585.78	536.69	7.92	ppb
Silver	109-1	523.60	513.24	590.01	542.29	7.68	ppb
Sodium	23-2	56145.59	52745.33	51878.94	53589.95	4.21	ppb
Strontium	86-1	503.69	518.88	572.24	531.60	6.77	ppb
Strontium	88-1	504.84	493.24	573.77	523.95	8.31	ppb
Sulfur	34-1	10157.71	10228.93	12756.50	11047.71	13.40	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	507.21	504.57	578.60	530.12	7.92	ppb
Thallium	205-1	507.54	507.74	561.31	525.53	5.90	ppb
Tin	118-1	522.80	519.02	582.94	541.59	6.62	ppb
Titanium	47-1	4897.38	4944.21	5649.44	5163.68	8.16	ppb
Uranium	238-1	485.74	485.02	552.05	507.61	7.58	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	564.82	536.56	506.95	536.11	5.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				96		%
Zinc	66-2	5695.16	5398.29	5260.23	5451.23	4.08	ppb
Zirconium	90-1	503.58	504.96	578.28	528.94	8.08	ppb
Zirconium	91-1	497.57	499.83	588.09	528.50	9.77	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.28	3.88	2.69	2.95	28.03	ppb
Antimony	121-1	0.18	0.15	0.12	0.15	19.84	ppb
Arsenic	75-2	0.02	0.01	0.02	0.01	38.23	ppb
Barium	135-1	0.20	0.13	0.11	0.14	33.12	ppb
Barium	137-1	0.19	0.13	0.10	0.14	35.19	ppb
Beryllium	9-1	0.24	0.16	0.15	0.18	25.63	ppb
Bismuth	209-1				96		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.63	0.58	0.61	0.61	4.53	ppb
Cadmium	106-1	0.02	0.33	-0.56	-0.07		ppb
Cadmium	111-1	0.07	0.06	-0.02	0.04	124.06	ppb
Calcium	43-1	156.36	133.31	130.66	140.11	10.09	ppb
Calcium	44-1	166.86	136.43	128.65	143.98	14.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.37	1.47	1.43	1.42	3.63	ppb
Cobalt	59-2	0.02	0.04	0.03	0.03	25.20	ppb
Copper	63-2	0.24	0.23	0.28	0.25	10.44	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				101		%
Indium	115-2				102		%
Iron	54-2	18.63	19.74	19.56	19.31	3.08	ppb
Iron	56-2	17.74	17.54	18.00	17.76	1.30	ppb
Iron	57-2	17.85	17.29	17.78	17.64	1.73	ppb
Krypton	83-1						cps
Lead	206-1	0.48	0.33	0.29	0.37	27.25	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.49	0.34	0.30	0.37	26.50	ppb
Lead	208-1	0.47	0.34	0.29	0.36	25.94	ppb
Lithium	6-1				103		%
Magnesium	24-2	60.51	62.20	62.92	61.88	2.01	ppb
Manganese	55-2	0.66	0.74	0.68	0.70	6.03	ppb
Molybdenum	94-1	45.18	37.69	36.46	39.77	11.87	ppb
Molybdenum	95-1	54.88	46.00	43.76	48.21	12.19	ppb
Molybdenum	96-1	53.47	44.94	43.32	47.24	11.54	ppb
Molybdenum	97-1	55.23	46.15	44.61	48.66	11.79	ppb
Molybdenum	98-1	54.15	45.75	43.57	47.82	11.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.10	1.16	1.13	1.13	2.52	ppb
Phosphorus	31-2	122.20	109.55	133.02	121.59	9.66	ppb
Potassium	39-2	32.80	34.05	37.37	34.74	6.79	ppb
Rhodium	103-1				99		%
Rhodium	103-2				106		%
Scandium	45-1				100		%
Scandium	45-2				105		%
Selenium	82-1	-0.20	0.01	-0.15	-0.11		ppb
Selenium	77-2	0.66	0.00	0.68	0.45	86.65	ppb
Selenium	78-2	-0.62	-0.04	-0.21	-0.29		ppb
Silicon	28-1	17.39	7.96	5.22	10.19	62.63	ppb
Silver	107-1	0.09	0.06	0.05	0.07	24.23	ppb
Silver	109-1	0.08	0.06	0.04	0.06	28.53	ppb
Sodium	23-2	50.73	54.25	57.08	54.02	5.90	ppb
Strontium	86-1	0.17	0.10	0.10	0.12	35.02	ppb
Strontium	88-1	0.15	0.11	0.10	0.12	19.24	ppb
Sulfur	34-1	2769.97	951.22	285.35	1335.51	96.30	ppb
Terbium	159-1				100		%
Terbium	159-2				104		%
Thallium	203-1	0.07	0.05	0.04	0.05	26.12	ppb
Thallium	205-1	0.07	0.04	0.04	0.05	29.79	ppb
Tin	118-1	1.00	0.83	0.80	0.87	12.28	ppb
Titanium	47-1	0.51	0.30	0.34	0.39	28.89	ppb
Uranium	238-1	0.03	0.01	0.01	0.02	49.53	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.02	0.03	32.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	315.99	323.98	324.26	321.41	1.46	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	42.19	ppb
Zirconium	91-1	0.04	0.02	0.01	0.03	58.11	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.50	3.12	3.84	3.49	10.39	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	3.36	ppb
Arsenic	75-2	0.01	-0.01	0.00	0.00		ppb
Barium	135-1	0.11	0.13	0.10	0.11	9.68	ppb
Barium	137-1	0.12	0.11	0.10	0.11	7.97	ppb
Beryllium	9-1	0.10	0.08	0.08	0.09	10.69	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.54	0.38	0.49	0.47	17.27	ppb
Cadmium	106-1	0.11	-1.31	-0.35	-0.51		ppb
Cadmium	111-1	0.02	-0.07	0.00	-0.02		ppb
Calcium	43-1	125.96	121.50	122.65	123.37	1.88	ppb
Calcium	44-1	129.53	126.15	124.45	126.71	2.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.38	1.41	1.44	1.41	2.17	ppb
Cobalt	59-2	0.02	0.03	0.02	0.03	16.33	ppb
Copper	63-2	0.22	0.22	0.20	0.21	6.19	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				108		%
Indium	115-2				103		%
Iron	54-2	10.89	10.63	12.25	11.26	7.75	ppb
Iron	56-2	10.64	10.85	10.83	10.77	1.10	ppb
Iron	57-2	11.28	10.53	10.39	10.74	4.47	ppb
Krypton	83-1						cps
Lead	206-1	0.23	0.23	0.21	0.23	5.58	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.23	0.22	0.23	5.91	ppb
Lead	208-1	0.24	0.23	0.21	0.23	5.03	ppb
Lithium	6-1				110		%
Magnesium	24-2	61.91	60.38	61.61	61.30	1.32	ppb
Manganese	55-2	0.64	0.62	0.59	0.62	3.62	ppb
Molybdenum	94-1	37.37	36.89	36.71	36.99	0.93	ppb
Molybdenum	95-1	45.10	44.64	44.58	44.78	0.64	ppb
Molybdenum	96-1	43.79	43.61	42.92	43.44	1.05	ppb
Molybdenum	97-1	45.37	44.98	44.58	44.98	0.87	ppb
Molybdenum	98-1	45.01	44.00	44.01	44.34	1.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.03	1.14	1.10	1.09	5.00	ppb
Phosphorus	31-2	113.23	90.35	109.26	104.28	11.73	ppb
Potassium	39-2	33.07	34.62	32.87	33.52	2.85	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				108		%
Scandium	45-2				106		%
Selenium	82-1	0.09	-0.02	-0.09	0.00		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.62	0.34	-0.62	-0.30		ppb
Silicon	28-1	4.66	3.09	3.65	3.80	20.94	ppb
Silver	107-1	0.02	0.02	0.02	0.02	15.72	ppb
Silver	109-1	0.02	0.02	0.02	0.02	10.10	ppb
Sodium	23-2	52.83	51.51	53.55	52.63	1.97	ppb
Strontium	86-1	0.10	0.08	0.08	0.09	10.53	ppb
Strontium	88-1	0.11	0.10	0.10	0.10	6.61	ppb
Sulfur	34-1	907.00	416.60	595.43	639.68	38.80	ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.02	0.02	0.02	0.02	6.76	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	14.70	ppb
Tin	118-1	0.88	0.86	0.81	0.85	3.80	ppb
Titanium	47-1	0.33	0.32	0.25	0.30	14.37	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	11.08	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.03	0.02	0.02	28.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				104		%
Zinc	66-2	314.11	315.56	312.18	313.95	0.54	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	15.20	ppb
Zirconium	91-1	0.02	0.01	0.01	0.01	78.01	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.29	1.20	1.48	1.32	10.91	ppb
Antimony	121-1	0.05	0.04	0.05	0.04	2.77	ppb
Arsenic	75-2	0.01	0.00	0.01	0.01	111.15	ppb
Barium	135-1	0.02	0.03	0.02	0.03	21.00	ppb
Barium	137-1	0.01	0.03	0.02	0.02	35.11	ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	2.35	ppb
Bismuth	209-1				104		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.09	0.21	0.15	41.68	ppb
Cadmium	106-1	0.25	-0.53	0.28	0.00		ppb
Cadmium	111-1	0.03	-0.03	0.02	0.01	567.99	ppb
Calcium	43-1	26.15	25.05	25.92	25.71	2.26	ppb
Calcium	44-1	23.38	23.26	24.79	23.81	3.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.12	0.21	0.12	73.29	ppb
Cobalt	59-2	0.01	0.01	0.00	0.01	47.89	ppb
Copper	63-2	-0.02	0.06	0.12	0.06	127.28	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				102		%
Indium	115-1				109		%
Indium	115-2				99		%
Iron	54-2	3.24	4.55	4.57	4.12	18.48	ppb
Iron	56-2	2.99	4.07	4.65	3.90	21.59	ppb
Iron	57-2	3.34	3.20	4.32	3.62	16.92	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.09	0.09	1.85	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.08	0.09	4.94	ppb
Lead	208-1	0.09	0.09	0.09	0.09	1.03	ppb
Lithium	6-1				109		%
Magnesium	24-2	5.07	9.30	11.84	8.74	39.12	ppb
Manganese	55-2	0.08	0.16	0.11	0.11	34.68	ppb
Molybdenum	94-1	7.02	7.16	7.19	7.12	1.22	ppb
Molybdenum	95-1	8.68	8.68	8.86	8.74	1.18	ppb
Molybdenum	96-1	8.36	8.35	8.53	8.41	1.19	ppb
Molybdenum	97-1	8.61	8.59	8.79	8.66	1.26	ppb
Molybdenum	98-1	8.58	8.49	8.63	8.57	0.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.32	0.44	0.54	0.43	25.30	ppb
Phosphorus	31-2	-0.08	3.75	6.59	3.42	97.86	ppb
Potassium	39-2	12.98	26.34	40.05	26.46	51.15	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				109		%
Scandium	45-2				104		%
Selenium	82-1	-0.13	-0.30	-0.31	-0.25		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.66	-0.61	0.11	-0.39		ppb
Silicon	28-1	-2.67	-3.01	-1.94	-2.54		ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.66	ppb
Silver	109-1	0.01	0.01	0.01	0.01	28.08	ppb
Sodium	23-2	9.36	27.18	42.60	26.38	63.06	ppb
Strontium	86-1	0.02	0.01	0.03	0.02	53.80	ppb
Strontium	88-1	0.04	0.04	0.04	0.04	2.11	ppb
Sulfur	34-1	261.27	149.72	526.44	312.48	61.93	ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	1.41	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	8.25	ppb
Tin	118-1	0.15	0.14	0.15	0.15	3.85	ppb
Titanium	47-1	0.07	0.08	0.09	0.08	11.55	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	26.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	54.32	64.31	69.51	62.71	12.31	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	50.94	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	18.17	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1637.60	1648.62	1639.10	1641.78	0.36	ppb
Antimony	121-1	109.97	106.74	102.31	106.34	3.62	ppb
Arsenic	75-2	0.06	0.05	0.05	0.05	12.48	ppb
Barium	135-1	466.30	456.08	444.17	455.52	2.43	ppb
Barium	137-1	463.85	440.59	437.64	447.36	3.21	ppb
Beryllium	9-1	94.65	90.53	89.63	91.61	2.92	ppb
Bismuth	209-1				96		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	98.21	96.72	93.36	96.10	2.58	ppb
Cadmium	106-1	105.36	103.59	97.10	102.01	4.26	ppb
Cadmium	111-1	100.01	98.43	93.98	97.47	3.21	ppb
Calcium	43-1	9500.69	9104.43	8812.38	9139.17	3.78	ppb
Calcium	44-1	9331.96	9069.44	8721.15	9040.85	3.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90.20	90.49	91.86	90.85	0.98	ppb
Cobalt	59-2	93.44	93.55	93.84	93.61	0.23	ppb
Copper	63-2	961.38	973.73	985.02	973.38	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				100		%
Holmium	165-2				93		%
Indium	115-1				100		%
Indium	115-2				88		%
Iron	54-2	4133.08	4156.13	4195.92	4161.71	0.76	ppb
Iron	56-2	4191.46	4207.57	4240.46	4213.17	0.59	ppb
Iron	57-2	4076.54	4072.09	4164.85	4104.49	1.27	ppb
Krypton	83-1						cps
Lead	206-1	498.63	470.83	467.20	478.89	3.59	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	505.97	474.30	466.65	482.31	4.32	ppb
Lead	208-1	498.13	473.61	468.49	480.08	3.30	ppb
Lithium	6-1				104		%
Magnesium	24-2	9153.42	9178.70	9227.57	9186.57	0.41	ppb
Manganese	55-2	941.50	927.78	957.69	942.32	1.59	ppb
Molybdenum	94-1	513.81	501.78	482.05	499.21	3.21	ppb
Molybdenum	95-1	405.81	398.17	373.08	392.35	4.36	ppb
Molybdenum	96-1	415.12	402.43	393.99	403.84	2.63	ppb
Molybdenum	97-1	407.73	390.05	388.12	395.30	2.73	ppb
Molybdenum	98-1	403.52	388.41	378.66	390.20	3.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	94.31	94.56	94.26	94.38	0.17	ppb
Phosphorus	31-2	148.04	128.57	115.75	130.79	12.43	ppb
Potassium	39-2	4009.52	4045.84	4042.63	4032.66	0.50	ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				102		%
Scandium	45-2				96		%
Selenium	82-1	100.75	99.26	97.68	99.23	1.55	ppb
Selenium	77-2	81.90	95.90	91.34	89.71	7.96	ppb
Selenium	78-2	93.50	88.36	98.34	93.40	5.34	ppb
Silicon	28-1	7.53	4.94	6.78	6.42	20.72	ppb
Silver	107-1	17.36	17.13	16.31	16.93	3.24	ppb
Silver	109-1	17.18	17.16	16.49	16.95	2.31	ppb
Sodium	23-2	9071.67	9021.14	9217.98	9103.60	1.12	ppb
Strontium	86-1	114.80	111.95	110.16	112.30	2.08	ppb
Strontium	88-1	118.78	117.52	114.13	116.81	2.06	ppb
Sulfur	34-1	1866.67	1173.97	1303.70	1448.11	25.43	ppb
Terbium	159-1				100		%
Terbium	159-2				93		%
Thallium	203-1	93.45	90.55	91.13	91.71	1.67	ppb
Thallium	205-1	98.70	95.40	93.82	95.97	2.60	ppb
Tin	118-1	91.48	90.21	86.50	89.40	2.89	ppb
Titanium	47-1	0.65	0.64	0.58	0.62	5.94	ppb
Uranium	238-1	94.48	90.81	88.19	91.16	3.47	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	92.44	91.82	92.92	92.39	0.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				93		%
Zinc	66-2	1196.76	1200.26	1211.47	1202.83	0.64	ppb
Zirconium	90-1	97.78	95.25	94.18	95.74	1.93	ppb
Zirconium	91-1	93.44	91.15	90.05	91.55	1.89	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1761.64	1629.08	1621.31	1670.68	4.72	ppb
Antimony	121-1	105.85	103.85	98.73	102.81	3.57	ppb
Arsenic	75-2	0.00	0.04	0.04	0.03	86.06	ppb
Barium	135-1	449.76	444.19	417.42	437.12	3.96	ppb
Barium	137-1	456.68	440.71	421.31	439.57	4.03	ppb
Beryllium	9-1	91.28	91.24	86.06	89.53	3.35	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	94.50	94.41	90.35	93.09	2.55	ppb
Cadmium	106-1	102.71	99.49	96.78	99.66	2.98	ppb
Cadmium	111-1	97.78	95.38	91.37	94.84	3.42	ppb
Calcium	43-1	9069.53	8890.53	8549.54	8836.53	2.99	ppb
Calcium	44-1	8871.11	8911.85	8485.80	8756.25	2.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.92	90.21	90.50	92.54	4.10	ppb
Cobalt	59-2	100.17	93.32	94.12	95.87	3.90	ppb
Copper	63-2	1033.43	952.56	971.12	985.71	4.30	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				109		%
Holmium	165-2				103		%
Indium	115-1				108		%
Indium	115-2				101		%
Iron	54-2	4485.63	4135.52	4168.75	4263.30	4.53	ppb
Iron	56-2	4557.16	4105.97	4210.37	4291.17	5.50	ppb
Iron	57-2	4391.82	4065.62	4105.98	4187.80	4.25	ppb
Krypton	83-1						cps
Lead	206-1	468.41	474.94	453.46	465.60	2.37	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	465.35	477.66	454.33	465.78	2.51	ppb
Lead	208-1	464.70	467.93	447.96	460.19	2.33	ppb
Lithium	6-1				111		%
Magnesium	24-2	9720.23	9025.43	9310.84	9352.17	3.73	ppb
Manganese	55-2	1020.43	916.98	934.56	957.32	5.78	ppb
Molybdenum	94-1	487.38	486.47	464.99	479.61	2.64	ppb
Molybdenum	95-1	390.20	390.01	367.75	382.65	3.37	ppb
Molybdenum	96-1	394.38	399.51	381.01	391.63	2.44	ppb
Molybdenum	97-1	389.54	390.48	374.45	384.82	2.34	ppb
Molybdenum	98-1	387.15	378.83	366.48	377.49	2.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	99.56	93.07	92.87	95.17	4.00	ppb
Phosphorus	31-2	157.80	123.98	138.83	140.20	12.09	ppb
Potassium	39-2	4307.78	3986.70	4013.24	4102.57	4.34	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				109		%
Scandium	45-2				105		%
Selenium	82-1	97.95	96.47	93.92	96.11	2.12	ppb
Selenium	77-2	100.85	85.41	107.80	98.02	11.69	ppb
Selenium	78-2	92.78	94.56	94.29	93.88	1.02	ppb
Silicon	28-1	5.45	3.56	1.49	3.50	56.60	ppb
Silver	107-1	16.63	16.61	15.83	16.36	2.81	ppb
Silver	109-1	16.78	16.56	15.95	16.43	2.64	ppb
Sodium	23-2	9746.80	9010.27	9248.16	9335.08	4.03	ppb
Strontium	86-1	110.02	110.82	105.49	108.78	2.64	ppb
Strontium	88-1	115.05	113.12	108.20	112.12	3.15	ppb
Sulfur	34-1	1071.95	613.81	111.61	599.13	80.17	ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	89.43	91.46	86.59	89.16	2.74	ppb
Thallium	205-1	95.02	94.26	90.22	93.17	2.77	ppb
Tin	118-1	88.84	87.22	84.41	86.82	2.58	ppb
Titanium	47-1	0.61	0.55	0.60	0.58	5.71	ppb
Uranium	238-1	88.82	88.55	83.93	87.10	3.15	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	98.19	90.41	91.46	93.35	4.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				102		%
Zinc	66-2	1289.36	1197.10	1206.02	1230.82	4.13	ppb
Zirconium	90-1	92.65	92.38	89.28	91.44	2.05	ppb
Zirconium	91-1	88.09	88.97	85.34	87.47	2.16	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1648.94	1657.70	1638.05	1648.23	0.60	ppb
Antimony	121-1	101.24	103.91	103.06	102.74	1.32	ppb
Arsenic	75-2	0.05	0.07	0.05	0.06	15.87	ppb
Barium	135-1	428.01	432.73	434.99	431.91	0.82	ppb
Barium	137-1	416.08	440.79	434.11	430.33	2.97	ppb
Beryllium	9-1	85.54	91.84	90.50	89.29	3.72	ppb
Bismuth	209-1				104		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	90.69	93.99	92.66	92.45	1.80	ppb
Cadmium	106-1	95.63	99.80	98.55	97.99	2.18	ppb
Cadmium	111-1	90.98	95.63	94.93	93.85	2.68	ppb
Calcium	43-1	8448.05	8751.35	8774.40	8657.94	2.10	ppb
Calcium	44-1	8515.87	8808.43	8813.99	8712.76	1.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	92.64	93.24	90.76	92.22	1.40	ppb
Cobalt	59-2	95.41	96.13	94.93	95.49	0.64	ppb
Copper	63-2	977.88	978.81	990.68	982.46	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				109		%
Holmium	165-2				102		%
Indium	115-1				108		%
Indium	115-2				99		%
Iron	54-2	4260.24	4264.86	4193.47	4239.52	0.94	ppb
Iron	56-2	4216.14	4302.74	4212.67	4243.85	1.20	ppb
Iron	57-2	4164.29	4187.40	4150.38	4167.35	0.45	ppb
Krypton	83-1						cps
Lead	206-1	451.19	471.67	468.78	463.88	2.39	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	454.65	471.57	468.87	465.03	1.95	ppb
Lead	208-1	449.61	466.83	465.34	460.59	2.07	ppb
Lithium	6-1				110		%
Magnesium	24-2	9182.79	9288.07	9223.53	9231.46	0.58	ppb
Manganese	55-2	946.24	967.51	937.59	950.45	1.62	ppb
Molybdenum	94-1	461.93	476.60	480.20	472.91	2.05	ppb
Molybdenum	95-1	366.23	377.39	385.40	376.34	2.56	ppb
Molybdenum	96-1	376.84	392.32	388.11	385.75	2.07	ppb
Molybdenum	97-1	362.43	388.72	385.25	378.80	3.77	ppb
Molybdenum	98-1	365.63	385.24	384.46	378.44	2.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	95.11	95.29	94.51	94.97	0.43	ppb
Phosphorus	31-2	118.26	131.36	161.61	137.08	16.22	ppb
Potassium	39-2	4077.31	4049.09	4021.09	4049.17	0.69	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				110		%
Scandium	45-2				104		%
Selenium	82-1	89.38	96.34	96.30	94.01	4.26	ppb
Selenium	77-2	73.64	93.52	110.86	92.67	20.10	ppb
Selenium	78-2	93.08	93.79	88.97	91.95	2.83	ppb
Silicon	28-1	1.94	3.27	3.31	2.84	27.49	ppb
Silver	107-1	15.77	16.60	16.56	16.31	2.86	ppb
Silver	109-1	15.89	16.51	16.59	16.33	2.37	ppb
Sodium	23-2	9189.62	9119.67	8947.14	9085.48	1.37	ppb
Strontium	86-1	104.50	110.28	110.91	108.56	3.25	ppb
Strontium	88-1	108.90	111.57	111.68	110.72	1.42	ppb
Sulfur	34-1	461.93	403.62	536.71	467.42	14.27	ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	85.58	89.03	89.72	88.11	2.52	ppb
Thallium	205-1	92.04	93.46	93.77	93.09	0.99	ppb
Tin	118-1	83.03	87.16	86.56	85.58	2.61	ppb
Titanium	47-1	0.60	0.63	0.59	0.61	3.84	ppb
Uranium	238-1	83.96	87.66	88.76	86.79	2.90	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	92.86	93.17	93.18	93.07	0.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	1218.39	1219.65	1213.54	1217.19	0.27	ppb
Zirconium	90-1	87.86	94.01	92.92	91.60	3.58	ppb
Zirconium	91-1	83.55	89.07	89.77	87.46	3.89	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51475.81	47199.52	48751.98	49142.44	4.40	ppb
Antimony	121-1	489.91	497.58	498.87	495.45	0.98	ppb
Arsenic	75-2	531.75	485.95	490.34	502.68	5.03	ppb
Barium	135-1	2450.76	2477.67	2523.52	2483.98	1.48	ppb
Barium	137-1	2470.64	2478.81	2514.18	2487.88	0.93	ppb
Beryllium	9-1	474.80	490.67	483.46	482.98	1.65	ppb
Bismuth	209-1				90		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	487.84	496.79	502.13	495.59	1.46	ppb
Cadmium	106-1	493.02	498.87	505.78	499.22	1.28	ppb
Cadmium	111-1	478.10	490.47	498.46	489.01	2.10	ppb
Calcium	43-1	230866.14	235167.31	232024.97	232686.14	0.96	ppb
Calcium	44-1	227864.41	235250.01	233936.63	232350.35	1.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	542.09	499.04	501.84	514.32	4.68	ppb
Cobalt	59-2	522.30	482.81	489.36	498.16	4.25	ppb
Copper	63-2	5102.99	4603.10	4753.20	4819.76	5.32	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				103		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				88		%
Iron	54-2	128532.72	118822.60	118638.78	121998.03	4.64	ppb
Iron	56-2	130665.72	117965.08	119939.05	122856.62	5.56	ppb
Iron	57-2	128826.45	117706.76	118974.36	121835.86	5.00	ppb
Krypton	83-1						cps
Lead	206-1	2425.11	2499.37	2589.27	2504.58	3.28	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2459.82	2539.45	2578.64	2525.97	2.40	ppb
Lead	208-1	2443.02	2518.40	2554.69	2505.37	2.27	ppb
Lithium	6-1				98		%
Magnesium	24-2	259256.42	232594.26	240850.07	244233.58	5.59	ppb
Manganese	55-2	5281.27	4838.35	4864.12	4994.58	4.98	ppb
Molybdenum	94-1	4791.36	5032.83	4897.23	4907.14	2.47	ppb
Molybdenum	95-1	4764.71	5015.34	4841.41	4873.82	2.63	ppb
Molybdenum	96-1	4787.00	5005.24	4882.20	4891.48	2.24	ppb
Molybdenum	97-1	4757.36	4891.54	4957.69	4868.86	2.10	ppb
Molybdenum	98-1	4742.68	4958.26	4940.55	4880.50	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	491.40	446.18	454.02	463.87	5.21	ppb
Phosphorus	31-2	10611.67	9697.40	9740.24	10016.43	5.15	ppb
Potassium	39-2	127620.87	117111.33	119999.29	121577.16	4.47	ppb
Rhodium	103-1				92		%
Rhodium	103-2				89		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	460.35	482.12	468.82	470.43	2.33	ppb
Selenium	77-2	541.58	475.70	473.95	497.08	7.75	ppb
Selenium	78-2	532.87	474.68	475.93	494.49	6.72	ppb
Silicon	28-1	477.60	507.47	500.85	495.31	3.17	ppb
Silver	107-1	473.33	481.52	477.20	477.35	0.86	ppb
Silver	109-1	475.85	482.11	481.68	479.88	0.73	ppb
Sodium	23-2	261939.28	242293.41	237994.85	247409.18	5.16	ppb
Strontium	86-1	486.55	505.74	505.08	499.12	2.18	ppb
Strontium	88-1	487.45	496.59	496.57	493.54	1.07	ppb
Sulfur	34-1	9626.86	10176.79	10154.59	9986.08	3.12	ppb
Terbium	159-1				101		%
Terbium	159-2				95		%
Thallium	203-1	495.03	505.35	528.80	509.73	3.40	ppb
Thallium	205-1	500.12	498.17	512.33	503.54	1.52	ppb
Tin	118-1	498.03	501.32	504.55	501.30	0.65	ppb
Titanium	47-1	4786.19	4966.89	4907.85	4886.97	1.89	ppb
Uranium	238-1	492.64	513.40	501.23	502.42	2.08	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	543.84	492.98	502.69	513.17	5.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				96		%
Zinc	66-2	5035.40	4646.95	4663.86	4782.07	4.59	ppb
Zirconium	90-1	486.48	509.31	500.06	498.62	2.30	ppb
Zirconium	91-1	488.41	517.57	494.07	500.02	3.09	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.26	0.89	1.16	1.10	17.69	ppb
Antimony	121-1	0.15	0.14	0.13	0.14	9.99	ppb
Arsenic	75-2	0.00	-0.02	-0.01	-0.01		ppb
Barium	135-1	0.12	0.10	0.07	0.10	30.79	ppb
Barium	137-1	0.17	0.08	0.05	0.10	59.31	ppb
Beryllium	9-1	0.22	0.20	0.18	0.20	11.47	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	-0.02	0.01	257.14	ppb
Cadmium	106-1	-0.02	0.57	0.29	0.28	104.63	ppb
Cadmium	111-1	0.05	0.06	0.05	0.05	17.48	ppb
Calcium	43-1	9.62	6.73	5.80	7.38	27.05	ppb
Calcium	44-1	12.90	6.88	5.29	8.36	48.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.09	0.09	0.13	0.10	23.27	ppb
Cobalt	59-2	0.03	0.02	0.02	0.02	29.34	ppb
Copper	63-2	0.23	0.10	0.18	0.17	40.28	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				105		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	54-2	3.85	3.23	3.29	3.46	9.79	ppb
Iron	56-2	4.52	3.19	3.77	3.82	17.44	ppb
Iron	57-2	4.18	3.52	3.32	3.67	12.23	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.26	0.23	0.28	19.86	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.34	0.28	0.22	0.28	20.87	ppb
Lead	208-1	0.34	0.27	0.24	0.28	19.09	ppb
Lithium	6-1				108		%
Magnesium	24-2	-0.26	-2.51	-1.55	-1.44		ppb
Manganese	55-2	0.25	0.16	0.18	0.20	24.03	ppb
Molybdenum	94-1	0.45	0.26	0.22	0.31	39.62	ppb
Molybdenum	95-1	0.37	0.27	0.21	0.28	28.57	ppb
Molybdenum	96-1	0.38	0.26	0.20	0.28	33.87	ppb
Molybdenum	97-1	0.38	0.25	0.20	0.28	34.85	ppb
Molybdenum	98-1	0.37	0.24	0.18	0.26	36.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.39	0.26	0.36	0.34	21.29	ppb
Phosphorus	31-2	-36.35	-30.47	-26.59	-31.14		ppb
Potassium	39-2	35.35	15.48	26.04	25.62	38.81	ppb
Rhodium	103-1				105		%
Rhodium	103-2				108		%
Scandium	45-1				109		%
Scandium	45-2				107		%
Selenium	82-1	-0.25	0.14	-0.02	-0.04		ppb
Selenium	77-2	0.00	0.60	0.00	0.20	173.21	ppb
Selenium	78-2	-0.80	-0.66	-0.23	-0.56		ppb
Silicon	28-1	-4.12	-4.57	-3.51	-4.07		ppb
Silver	107-1	0.08	0.06	0.06	0.07	17.39	ppb
Silver	109-1	0.09	0.06	0.05	0.07	25.91	ppb
Sodium	23-2	54.45	30.56	39.48	41.50	29.09	ppb
Strontium	86-1	0.05	0.03	0.02	0.03	45.55	ppb
Strontium	88-1	0.05	0.04	0.03	0.04	17.54	ppb
Sulfur	34-1	-880.11	-867.00	-633.24	-793.45		ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	0.06	0.05	0.04	0.05	20.93	ppb
Thallium	205-1	0.06	0.05	0.05	0.05	12.22	ppb
Tin	118-1	0.03	0.01	0.01	0.02	81.27	ppb
Titanium	47-1	0.28	0.18	0.16	0.21	33.10	ppb
Uranium	238-1	0.03	0.02	0.01	0.02	47.36	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.01	0.02	0.02	10.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				106		%
Zinc	66-2	0.02	-0.03	-0.03	-0.02		ppb
Zirconium	90-1	0.05	0.04	0.03	0.04	20.13	ppb
Zirconium	91-1	0.05	0.03	0.03	0.04	25.14	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.25	0.21	0.51	0.32	49.65	ppb
Antimony	121-1	0.03	0.04	0.04	0.03	13.02	ppb
Arsenic	75-2	-0.01	0.03	-0.02	0.00	1397.55	ppb
Barium	135-1	0.01	0.00	0.00	0.00	200.67	ppb
Barium	137-1	0.00	0.00	0.00	0.00		ppb
Beryllium	9-1	0.11	0.09	0.11	0.10	6.87	ppb
Bismuth	209-1				104		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.01	0.02	0.03	57.49	ppb
Cadmium	106-1	0.29	0.55	-0.08	0.25	124.34	ppb
Cadmium	111-1	0.03	0.06	0.00	0.03	105.80	ppb
Calcium	43-1	-2.70	-2.36	-3.02	-2.69		ppb
Calcium	44-1	-2.45	-3.32	-3.43	-3.07		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.15	-0.14	-0.12	-0.13		ppb
Cobalt	59-2	0.00	0.01	0.00	0.01	72.21	ppb
Copper	63-2	0.02	-0.02	0.03	0.01	276.43	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				104		%
Indium	115-1				111		%
Indium	115-2				103		%
Iron	54-2	0.88	0.55	0.80	0.75	22.92	ppb
Iron	56-2	0.86	0.82	0.83	0.84	2.22	ppb
Iron	57-2	0.50	0.27	0.64	0.47	39.90	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.10	0.10	0.10	5.27	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.11	0.11	0.11	3.80	ppb
Lead	208-1	0.11	0.11	0.10	0.11	5.34	ppb
Lithium	6-1				110		%
Magnesium	24-2	-3.96	-3.55	-3.51	-3.67		ppb
Manganese	55-2	0.03	0.05	0.04	0.04	14.37	ppb
Molybdenum	94-1	0.05	0.05	0.04	0.05	4.37	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	6.68	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.03	16.39	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	6.29	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	18.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.23	0.24	0.18	0.22	16.18	ppb
Phosphorus	31-2	-20.58	-22.17	-28.19	-23.65		ppb
Potassium	39-2	23.29	25.10	24.79	24.40	3.96	ppb
Rhodium	103-1				109		%
Rhodium	103-2				107		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	-0.02	-0.07	-0.21	-0.10		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.82	-0.43	-1.01	-0.75		ppb
Silicon	28-1	-4.67	-5.24	-5.52	-5.14		ppb
Silver	107-1	0.02	0.02	0.01	0.02	14.52	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.30	ppb
Sodium	23-2	17.94	18.89	18.60	18.47	2.64	ppb
Strontium	86-1	0.01	0.01	0.01	0.01	7.52	ppb
Strontium	88-1	0.02	0.01	0.02	0.02	8.85	ppb
Sulfur	34-1	281.72	-54.87	-179.21	15.88	1501.83	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.02	0.01	0.02	0.02	27.86	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	7.80	ppb
Tin	118-1	0.01	0.00	0.01	0.01	58.56	ppb
Titanium	47-1	0.03	0.00	0.00	0.01	148.19	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	54.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				105		%
Zinc	66-2	-0.26	-0.21	-0.27	-0.25		ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	22.11	ppb
Zirconium	91-1	0.00	0.00	0.01	0.01	71.68	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9617.86	9459.01	9305.35	9460.74	1.65	ppb
Antimony	121-1	527.69	520.32	528.17	525.39	0.84	ppb
Arsenic	75-2	514.84	503.23	512.91	510.33	1.22	ppb
Barium	135-1	2616.37	2543.75	2604.34	2588.15	1.50	ppb
Barium	137-1	2604.88	2578.25	2557.28	2580.14	0.92	ppb
Beryllium	9-1	496.55	489.02	488.41	491.32	0.92	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	534.21	532.57	524.82	530.53	0.95	ppb
Cadmium	106-1	535.81	522.43	526.15	528.13	1.31	ppb
Cadmium	111-1	531.96	527.17	522.83	527.32	0.87	ppb
Calcium	43-1	51497.59	48371.82	48767.22	49545.54	3.44	ppb
Calcium	44-1	50224.25	47831.25	48521.95	48859.15	2.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	525.89	516.78	511.79	518.16	1.38	ppb
Cobalt	59-2	519.75	507.38	503.85	510.33	1.64	ppb
Copper	63-2	5174.52	5020.59	5010.62	5068.58	1.81	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				106		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				95		%
Iron	54-2	25681.97	25156.02	24770.51	25202.84	1.82	ppb
Iron	56-2	25183.18	24543.45	24288.82	24671.82	1.87	ppb
Iron	57-2	25831.70	24782.26	24767.32	25127.10	2.43	ppb
Krypton	83-1						cps
Lead	206-1	2593.75	2543.02	2595.65	2577.47	1.16	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2563.51	2556.92	2584.76	2568.40	0.57	ppb
Lead	208-1	2568.56	2541.59	2568.47	2559.54	0.61	ppb
Lithium	6-1				106		%
Magnesium	24-2	52629.99	50776.68	50146.70	51184.46	2.52	ppb
Manganese	55-2	5101.25	5045.01	4913.79	5020.02	1.92	ppb
Molybdenum	94-1	5054.41	5010.87	5042.87	5036.05	0.45	ppb
Molybdenum	95-1	5069.03	4984.07	5090.00	5047.70	1.11	ppb
Molybdenum	96-1	5023.34	4990.67	4961.51	4991.84	0.62	ppb
Molybdenum	97-1	5022.25	5080.47	4913.06	5005.26	1.70	ppb
Molybdenum	98-1	5045.86	5020.14	4960.54	5008.85	0.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	522.00	501.39	503.22	508.87	2.24	ppb
Phosphorus	31-2	10356.48	10039.85	9829.80	10075.38	2.63	ppb
Potassium	39-2	25091.51	24382.57	24007.36	24493.81	2.25	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	505.11	496.75	504.55	502.14	0.93	ppb
Selenium	77-2	527.78	509.09	492.29	509.72	3.48	ppb
Selenium	78-2	464.63	493.35	504.41	487.46	4.21	ppb
Silicon	28-1	519.84	492.70	502.71	505.08	2.72	ppb
Silver	107-1	532.09	514.64	529.07	525.26	1.78	ppb
Silver	109-1	531.34	522.75	517.41	523.83	1.34	ppb
Sodium	23-2	53217.27	51227.82	50330.06	51591.72	2.86	ppb
Strontium	86-1	519.56	508.32	511.91	513.26	1.12	ppb
Strontium	88-1	507.36	502.54	507.63	505.84	0.57	ppb
Sulfur	34-1	10689.85	9636.12	10278.55	10201.51	5.21	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	512.28	517.80	516.92	515.67	0.57	ppb
Thallium	205-1	517.79	497.64	513.20	509.54	2.07	ppb
Tin	118-1	529.60	522.82	511.96	521.46	1.71	ppb
Titanium	47-1	5144.01	4933.33	5002.71	5026.68	2.14	ppb
Uranium	238-1	496.27	492.88	486.42	491.86	1.02	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	513.58	500.60	495.80	503.32	1.83	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	5304.36	5076.62	5064.91	5148.63	2.62	ppb
Zirconium	90-1	512.27	498.00	506.40	505.56	1.42	ppb
Zirconium	91-1	515.78	502.27	511.22	509.76	1.35	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-01242	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	74.35	76.45	78.14	76.31	2.49	ppb
Antimony	121-1	0.26	0.24	0.24	0.25	3.49	ppb
Arsenic	75-2	4.41	4.92	5.17	4.83	8.03	ppb
Barium	135-1	160.65	159.38	156.21	158.75	1.44	ppb
Barium	137-1	162.25	161.43	158.76	160.82	1.14	ppb
Beryllium	9-1	0.23	0.21	0.22	0.22	4.77	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.25	0.17	0.22	0.21	19.30	ppb
Cadmium	106-1	0.48	0.10	0.80	0.46	75.41	ppb
Cadmium	111-1	0.13	0.09	0.14	0.12	24.58	ppb
Calcium	43-1	67784.53	65365.48	64640.46	65930.15	2.50	ppb
Calcium	44-1	66105.96	65239.25	63497.12	64947.45	2.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.35	0.39	0.36	0.37	5.56	ppb
Cobalt	59-2	73.36	77.97	77.59	76.31	3.35	ppb
Copper	63-2	0.64	0.71	0.68	0.68	5.03	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				106		%
Holmium	165-2				102		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	21843.54	23391.17	22738.14	22657.62	3.43	ppb
Iron	56-2	21552.41	23003.40	22552.05	22369.29	3.32	ppb
Iron	57-2	22125.93	23496.55	22932.66	22851.71	3.01	ppb
Krypton	83-1						cps
Lead	206-1	0.73	0.73	0.70	0.72	2.60	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-012425	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.71	0.69	0.65	0.68	3.92	ppb
Lead	208-1	0.72	0.70	0.67	0.69	3.30	ppb
Lithium	6-1				108		%
Magnesium	24-2	7570.31	7881.35	7896.55	7782.73	2.37	ppb
Manganese	55-2	1982.79	2108.58	2071.24	2054.21	3.14	ppb
Molybdenum	94-1	0.62	0.59	0.56	0.59	4.97	ppb
Molybdenum	95-1	0.43	0.37	0.35	0.38	10.53	ppb
Molybdenum	96-1	0.46	0.37	0.37	0.40	11.74	ppb
Molybdenum	97-1	0.45	0.36	0.36	0.39	13.17	ppb
Molybdenum	98-1	0.41	0.34	0.33	0.36	12.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	71.60	75.43	75.74	74.26	3.10	ppb
Phosphorus	31-2	-16.20	-16.37	-14.91	-15.83		ppb
Potassium	39-2	2769.59	2914.64	2908.31	2864.18	2.86	ppb
Rhodium	103-1				102		%
Rhodium	103-2				102		%
Scandium	45-1				107		%
Scandium	45-2				104		%
Selenium	82-1	0.25	0.29	0.29	0.28	7.46	ppb
Selenium	77-2	1.30	1.39	2.04	1.58	25.58	ppb
Selenium	78-2	-0.25	0.00	0.38	0.04	724.26	ppb
Silicon	28-1	6891.05	6633.32	6551.71	6692.03	2.65	ppb
Silver	107-1	0.05	0.04	0.04	0.04	17.63	ppb
Silver	109-1	0.04	0.04	0.04	0.04	3.08	ppb
Sodium	23-2	2245.32	2407.21	2366.29	2339.61	3.60	ppb
Strontium	86-1	341.01	336.71	342.94	340.22	0.94	ppb
Strontium	88-1	341.04	336.51	334.93	337.49	0.94	ppb
Sulfur	34-1	20562.33	20121.84	19569.46	20084.54	2.48	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.28	0.29	0.27	0.28	3.60	ppb
Thallium	205-1	0.28	0.28	0.28	0.28	1.35	ppb
Tin	118-1	0.37	0.34	0.33	0.35	5.26	ppb
Titanium	47-1	2.58	2.32	2.38	2.43	5.66	ppb
Uranium	238-1	0.21	0.20	0.20	0.20	2.59	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-01242	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.43	0.42	0.44	0.43	2.63	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				103		%
Zinc	66-2	1302.75	1390.17	1360.26	1351.06	3.29	ppb
Zirconium	90-1	0.16	0.16	0.15	0.16	5.12	ppb
Zirconium	91-1	0.16	0.14	0.15	0.15	5.62	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	167.55	170.08	177.04	171.56	2.86	ppb
Antimony	121-1	0.13	0.12	0.13	0.13	2.46	ppb
Arsenic	75-2	3.81	3.55	3.64	3.67	3.63	ppb
Barium	135-1	42.65	39.58	41.37	41.20	3.74	ppb
Barium	137-1	41.92	40.04	40.95	40.97	2.29	ppb
Beryllium	9-1	0.11	0.12	0.11	0.12	2.61	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.15	0.11	0.13	16.58	ppb
Cadmium	106-1	1.11	0.80	0.41	0.77	45.10	ppb
Cadmium	111-1	0.10	0.06	0.04	0.07	47.29	ppb
Calcium	43-1	35350.99	33713.59	33451.13	34171.90	3.01	ppb
Calcium	44-1	34839.18	33363.61	33245.77	33816.19	2.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.08	1.10	1.07	1.08	1.73	ppb
Cobalt	59-2	0.48	0.50	0.49	0.49	2.49	ppb
Copper	63-2	0.46	0.44	0.50	0.47	6.79	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				103		%
Indium	115-1				107		%
Indium	115-2				101		%
Iron	54-2	18659.73	18728.59	18903.19	18763.83	0.67	ppb
Iron	56-2	18502.76	18756.58	18402.03	18553.79	0.98	ppb
Iron	57-2	18964.16	18898.56	18889.49	18917.41	0.22	ppb
Krypton	83-1						cps
Lead	206-1	0.29	0.28	0.31	0.30	5.03	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.40	0.32	0.31	0.34	14.05	ppb
Lead	208-1	0.33	0.29	0.30	0.31	7.49	ppb
Lithium	6-1				109		%
Magnesium	24-2	2329.37	2328.28	2334.11	2330.59	0.13	ppb
Manganese	55-2	158.17	158.49	160.22	158.96	0.69	ppb
Molybdenum	94-1	3.73	3.61	4.43	3.92	11.27	ppb
Molybdenum	95-1	3.44	3.40	3.40	3.42	0.68	ppb
Molybdenum	96-1	3.46	3.36	3.37	3.40	1.56	ppb
Molybdenum	97-1	3.45	3.37	3.40	3.40	1.15	ppb
Molybdenum	98-1	3.49	3.32	3.32	3.38	3.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.97	0.92	0.95	0.95	2.95	ppb
Phosphorus	31-2	-8.95	-8.57	-12.23	-9.92		ppb
Potassium	39-2	1784.84	1795.42	1797.75	1792.67	0.38	ppb
Rhodium	103-1				104		%
Rhodium	103-2				104		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	0.11	0.00	0.16	0.09	87.49	ppb
Selenium	77-2	0.66	0.66	0.66	0.66	0.20	ppb
Selenium	78-2	0.53	-0.24	-0.05	0.08	503.75	ppb
Silicon	28-1	3580.32	3243.17	3388.37	3403.95	4.97	ppb
Silver	107-1	0.01	0.02	0.02	0.02	13.13	ppb
Silver	109-1	0.01	0.02	0.01	0.01	15.12	ppb
Sodium	23-2	56046.61	56019.88	56490.59	56185.69	0.47	ppb
Strontium	86-1	82.24	80.26	80.64	81.05	1.30	ppb
Strontium	88-1	86.50	82.79	83.19	84.16	2.42	ppb
Sulfur	34-1	1684.25	979.50	1085.39	1249.71	30.41	ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.03	0.03	0.03	2.93	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	9.72	ppb
Tin	118-1	0.21	0.18	0.20	0.20	8.70	ppb
Titanium	47-1	5.16	6.14	4.95	5.42	11.71	ppb
Uranium	238-1	0.40	0.36	0.37	0.37	6.13	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.11	1.13	1.04	1.09	4.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				105		%
Zinc	66-2	1.04	0.96	1.04	1.02	4.36	ppb
Zirconium	90-1	0.44	0.43	0.52	0.47	10.44	ppb
Zirconium	91-1	0.44	0.43	0.41	0.43	4.05	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	85.84	83.17	93.72	87.58	6.26	ppb
Antimony	121-1	0.11	0.10	0.11	0.10	7.02	ppb
Arsenic	75-2	3.57	3.54	3.50	3.54	0.93	ppb
Barium	135-1	39.67	41.02	40.09	40.26	1.72	ppb
Barium	137-1	40.10	41.26	40.46	40.61	1.47	ppb
Beryllium	9-1	0.10	0.09	0.08	0.09	7.20	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.04	0.10	0.07	37.29	ppb
Cadmium	106-1	0.61	1.28	-0.21	0.56	133.25	ppb
Cadmium	111-1	0.05	0.11	-0.02	0.05	132.79	ppb
Calcium	43-1	33623.77	35708.70	33731.30	34354.59	3.42	ppb
Calcium	44-1	32766.84	35358.68	33545.59	33890.37	3.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.94	1.01	1.01	0.99	4.22	ppb
Cobalt	59-2	0.50	0.50	0.46	0.49	4.09	ppb
Copper	63-2	0.38	0.39	0.38	0.39	1.89	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				108		%
Holmium	165-2				105		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	18157.46	18060.73	18282.28	18166.82	0.61	ppb
Iron	56-2	18135.30	18099.18	17915.38	18049.95	0.65	ppb
Iron	57-2	18278.92	18577.28	18248.18	18368.13	0.99	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.26	0.24	0.25	4.46	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.26	0.24	0.24	0.25	4.75	ppb
Lead	208-1	0.25	0.25	0.24	0.25	3.93	ppb
Lithium	6-1				112		%
Magnesium	24-2	2309.07	2273.21	2283.92	2288.74	0.80	ppb
Manganese	55-2	155.18	155.34	153.47	154.66	0.67	ppb
Molybdenum	94-1	3.25	3.47	3.37	3.37	3.19	ppb
Molybdenum	95-1	3.24	3.42	3.29	3.32	2.71	ppb
Molybdenum	96-1	3.28	3.34	3.33	3.31	1.00	ppb
Molybdenum	97-1	3.18	3.42	3.25	3.28	3.65	ppb
Molybdenum	98-1	3.18	3.38	3.28	3.28	3.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.92	0.88	0.99	0.93	6.21	ppb
Phosphorus	31-2	-16.90	-15.33	-5.77	-12.67		ppb
Potassium	39-2	1734.77	1741.55	1747.57	1741.30	0.37	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				110		%
Scandium	45-2				107		%
Selenium	82-1	0.35	-0.04	0.25	0.19	109.11	ppb
Selenium	77-2	0.66	0.66	1.97	1.10	69.37	ppb
Selenium	78-2	-0.05	-0.62	-0.43	-0.37		ppb
Silicon	28-1	3227.70	3542.28	3296.17	3355.38	4.93	ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.29	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.73	ppb
Sodium	23-2	55547.58	55343.57	55387.25	55426.13	0.19	ppb
Strontium	86-1	77.82	79.92	78.84	78.86	1.33	ppb
Strontium	88-1	81.19	84.15	82.06	82.47	1.84	ppb
Sulfur	34-1	1208.21	1933.04	1109.24	1416.83	31.75	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.02	0.02	2.18	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.26	ppb
Tin	118-1	0.17	0.23	0.20	0.20	15.11	ppb
Titanium	47-1	1.51	4.63	2.86	3.00	52.17	ppb
Uranium	238-1	0.36	0.37	0.36	0.36	2.10	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.96	0.92	0.95	0.94	1.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				105		%
Zinc	66-2	1.53	1.40	1.14	1.36	14.51	ppb
Zirconium	90-1	0.33	0.36	0.34	0.34	4.16	ppb
Zirconium	91-1	0.33	0.38	0.35	0.35	7.57	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.09	16.01	15.96	18.02	19.54	ppb
Antimony	121-1	0.04	0.05	0.05	0.05	11.24	ppb
Arsenic	75-2	0.66	0.58	0.70	0.65	9.57	ppb
Barium	135-1	7.71	8.03	8.23	7.99	3.28	ppb
Barium	137-1	7.90	8.02	8.11	8.01	1.36	ppb
Beryllium	9-1	0.07	0.06	0.07	0.07	11.40	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.04	0.03	0.03	79.14	ppb
Cadmium	106-1	1.13	0.40	0.33	0.62	71.35	ppb
Cadmium	111-1	0.09	0.03	0.03	0.05	76.28	ppb
Calcium	43-1	6437.73	6480.23	6616.56	6511.51	1.43	ppb
Calcium	44-1	6395.00	6626.77	6684.19	6568.65	2.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.25	0.23	0.26	0.24	6.42	ppb
Cobalt	59-2	0.09	0.10	0.10	0.10	2.59	ppb
Copper	63-2	0.04	0.05	0.08	0.06	43.01	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				105		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				105		%
Iron	54-2	3482.16	3455.25	3534.63	3490.68	1.16	ppb
Iron	56-2	3494.78	3586.76	3625.69	3569.08	1.88	ppb
Iron	57-2	3467.17	3461.90	3522.39	3483.82	0.96	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.10	0.08	0.09	11.42	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.10	0.09	0.08	0.09	8.30	ppb
Lead	208-1	0.09	0.10	0.08	0.09	6.88	ppb
Lithium	6-1				111		%
Magnesium	24-2	443.93	445.05	454.50	447.83	1.30	ppb
Manganese	55-2	30.58	29.98	31.22	30.59	2.03	ppb
Molybdenum	94-1	0.67	0.73	0.67	0.69	5.56	ppb
Molybdenum	95-1	0.67	0.65	0.66	0.66	1.38	ppb
Molybdenum	96-1	0.66	0.65	0.65	0.65	0.80	ppb
Molybdenum	97-1	0.64	0.69	0.69	0.67	3.85	ppb
Molybdenum	98-1	0.64	0.66	0.66	0.66	1.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.44	0.47	0.45	0.45	4.16	ppb
Phosphorus	31-2	-18.20	-28.70	-21.80	-22.90		ppb
Potassium	39-2	362.58	358.15	371.39	364.04	1.85	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				111		%
Scandium	45-2				109		%
Selenium	82-1	-0.31	0.18	0.35	0.07	486.58	ppb
Selenium	77-2	0.64	1.95	0.00	0.86	115.16	ppb
Selenium	78-2	-0.07	-0.44	-0.26	-0.26		ppb
Silicon	28-1	625.80	639.17	651.44	638.80	2.01	ppb
Silver	107-1	0.01	0.00	0.01	0.01	17.09	ppb
Silver	109-1	0.00	0.01	0.00	0.00	36.13	ppb
Sodium	23-2	10673.00	10821.22	10823.83	10772.68	0.80	ppb
Strontium	86-1	15.24	15.75	15.57	15.52	1.66	ppb
Strontium	88-1	15.38	15.94	15.69	15.67	1.77	ppb
Sulfur	34-1	208.55	387.84	334.43	310.27	29.67	ppb
Terbium	159-1				106		%
Terbium	159-2				104		%
Thallium	203-1	0.01	0.01	0.01	0.01	21.42	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	5.13	ppb
Tin	118-1	0.02	0.02	0.04	0.03	34.06	ppb
Titanium	47-1	0.29	1.50	0.32	0.71	97.66	ppb
Uranium	238-1	0.07	0.07	0.07	0.07	1.36	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.19	0.17	0.19	0.18	5.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				107		%
Zinc	66-2	0.11	0.12	0.02	0.08	63.24	ppb
Zirconium	90-1	0.07	0.07	0.07	0.07	2.32	ppb
Zirconium	91-1	0.06	0.07	0.06	0.06	12.99	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8724.24	8592.21	8513.17	8609.87	1.24	ppb
Antimony	121-1	528.23	512.79	498.04	513.02	2.94	ppb
Arsenic	75-2	3.76	3.42	3.96	3.71	7.31	ppb
Barium	135-1	2399.35	2301.13	2304.26	2334.91	2.39	ppb
Barium	137-1	2382.83	2313.56	2270.57	2322.32	2.44	ppb
Beryllium	9-1	502.82	486.37	472.81	487.33	3.08	ppb
Bismuth	209-1				95		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	486.86	470.74	472.73	476.78	1.84	ppb
Cadmium	106-1	528.51	501.71	507.89	512.70	2.74	ppb
Cadmium	111-1	526.07	501.79	512.10	513.32	2.37	ppb
Calcium	43-1	82749.56	76994.31	79924.51	79889.46	3.60	ppb
Calcium	44-1	82575.19	76407.48	78061.65	79014.77	4.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	487.57	483.85	470.22	480.55	1.90	ppb
Cobalt	59-2	488.32	487.17	486.78	487.42	0.16	ppb
Copper	63-2	4827.33	4742.18	4679.62	4749.71	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				105		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	38621.77	38265.80	37769.44	38219.00	1.12	ppb
Iron	56-2	38466.42	38278.85	37840.70	38195.33	0.84	ppb
Iron	57-2	39047.42	38791.69	38121.73	38653.61	1.24	ppb
Krypton	83-1						cps
Lead	206-1	2609.31	2441.75	2450.48	2500.51	3.77	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2616.94	2450.42	2427.73	2498.37	4.14	ppb
Lead	208-1	2590.36	2433.96	2431.05	2485.12	3.67	ppb
Lithium	6-1				107		%
Magnesium	24-2	49212.92	47390.83	47493.85	48032.53	2.13	ppb
Manganese	55-2	4901.62	4832.86	4797.13	4843.87	1.10	ppb
Molybdenum	94-1	2493.21	2291.52	2321.63	2368.79	4.59	ppb
Molybdenum	95-1	1891.74	1733.67	1757.23	1794.21	4.75	ppb
Molybdenum	96-1	1926.35	1765.87	1816.35	1836.19	4.47	ppb
Molybdenum	97-1	1846.85	1728.53	1738.29	1771.22	3.71	ppb
Molybdenum	98-1	1875.57	1737.26	1765.64	1792.82	4.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	462.38	460.12	454.92	459.14	0.83	ppb
Phosphorus	31-2	-0.84	-13.45	-12.71	-9.00		ppb
Potassium	39-2	23319.01	22798.52	22399.66	22839.06	2.02	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				108		%
Scandium	45-2				106		%
Selenium	82-1	521.06	471.27	485.63	492.65	5.20	ppb
Selenium	77-2	478.31	507.61	483.19	489.70	3.21	ppb
Selenium	78-2	496.79	466.56	482.73	482.03	3.14	ppb
Silicon	28-1	3387.50	3298.73	3441.63	3375.95	2.14	ppb
Silver	107-1	90.98	87.47	87.65	88.70	2.23	ppb
Silver	109-1	91.77	87.48	86.88	88.71	3.01	ppb
Sodium	23-2	99034.80	96608.93	97019.60	97554.44	1.33	ppb
Strontium	86-1	710.64	656.27	669.30	678.73	4.18	ppb
Strontium	88-1	693.27	655.34	654.86	667.82	3.30	ppb
Sulfur	34-1	1723.50	1035.63	1249.90	1336.34	26.34	ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	523.28	484.31	492.78	500.12	4.10	ppb
Thallium	205-1	517.02	482.59	488.91	496.18	3.69	ppb
Tin	118-1	468.37	455.04	455.11	459.50	1.67	ppb
Titanium	47-1	6.10	10.03	6.02	7.38	31.05	ppb
Uranium	238-1	496.42	469.77	468.98	478.39	3.26	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	497.37	486.26	484.30	489.31	1.44	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				103		%
Zinc	66-2	4752.54	4748.60	4679.95	4727.03	0.86	ppb
Zirconium	90-1	522.66	471.97	484.73	493.12	5.35	ppb
Zirconium	91-1	517.75	472.74	484.52	491.67	4.75	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8405.36	8475.29	8526.68	8469.11	0.72	ppb
Antimony	121-1	490.91	491.51	491.45	491.29	0.07	ppb
Arsenic	75-2	3.59	3.70	3.55	3.61	2.07	ppb
Barium	135-1	2215.73	2254.57	2236.11	2235.47	0.87	ppb
Barium	137-1	2201.96	2215.77	2232.79	2216.84	0.70	ppb
Beryllium	9-1	470.49	474.91	471.43	472.28	0.49	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	456.40	463.41	458.05	459.29	0.80	ppb
Cadmium	106-1	488.22	495.94	488.90	491.02	0.87	ppb
Cadmium	111-1	479.63	479.54	490.52	483.23	1.31	ppb
Calcium	43-1	75281.76	77466.53	77662.00	76803.43	1.72	ppb
Calcium	44-1	74560.14	75875.62	76448.94	75628.23	1.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	465.22	464.43	469.83	466.49	0.63	ppb
Cobalt	59-2	483.15	472.50	479.53	478.39	1.13	ppb
Copper	63-2	4689.32	4647.43	4630.12	4655.62	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				106		%
Holmium	165-2				102		%
Indium	115-1				105		%
Indium	115-2				97		%
Iron	54-2	38282.38	37987.58	37972.45	38080.80	0.46	ppb
Iron	56-2	38065.53	37287.29	38233.13	37861.99	1.33	ppb
Iron	57-2	39362.01	38089.08	38721.77	38724.28	1.64	ppb
Krypton	83-1						cps
Lead	206-1	2390.02	2355.24	2360.21	2368.49	0.79	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2398.15	2389.19	2363.22	2383.52	0.76	ppb
Lead	208-1	2385.48	2378.29	2363.06	2375.61	0.48	ppb
Lithium	6-1				107		%
Magnesium	24-2	47092.20	47546.20	48409.53	47682.64	1.40	ppb
Manganese	55-2	4767.53	4772.42	4859.37	4799.77	1.08	ppb
Molybdenum	94-1	2223.27	2241.68	2246.82	2237.26	0.55	ppb
Molybdenum	95-1	1673.44	1676.85	1696.10	1682.13	0.73	ppb
Molybdenum	96-1	1722.93	1741.40	1767.69	1744.01	1.29	ppb
Molybdenum	97-1	1680.82	1681.07	1713.32	1691.74	1.10	ppb
Molybdenum	98-1	1691.45	1710.85	1714.53	1705.61	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	451.60	449.31	452.69	451.20	0.38	ppb
Phosphorus	31-2	11.39	34.27	14.10	19.92	62.74	ppb
Potassium	39-2	22150.48	22472.08	21967.07	22196.54	1.15	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	469.70	475.36	476.83	473.96	0.79	ppb
Selenium	77-2	484.89	495.13	464.78	481.60	3.21	ppb
Selenium	78-2	460.80	477.41	461.85	466.68	1.99	ppb
Silicon	28-1	3120.10	3435.45	3207.18	3254.24	5.00	ppb
Silver	107-1	85.25	85.12	84.02	84.80	0.79	ppb
Silver	109-1	83.28	83.39	82.35	83.01	0.69	ppb
Sodium	23-2	97363.77	98536.71	98325.58	98075.36	0.64	ppb
Strontium	86-1	644.65	652.33	652.96	649.98	0.71	ppb
Strontium	88-1	636.13	643.97	639.20	639.77	0.62	ppb
Sulfur	34-1	907.77	1239.08	885.06	1010.64	19.61	ppb
Terbium	159-1				105		%
Terbium	159-2				102		%
Thallium	203-1	467.65	478.37	472.04	472.69	1.14	ppb
Thallium	205-1	469.31	476.01	472.93	472.75	0.71	ppb
Tin	118-1	444.76	441.04	442.04	442.61	0.43	ppb
Titanium	47-1	4.51	10.06	9.45	8.01	38.03	ppb
Uranium	238-1	457.64	458.83	458.99	458.49	0.16	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	492.19	480.41	480.43	484.34	1.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				102		%
Zinc	66-2	4748.80	4605.15	4603.12	4652.35	1.80	ppb
Zirconium	90-1	462.19	469.63	473.21	468.34	1.20	ppb
Zirconium	91-1	455.00	469.20	469.80	464.67	1.80	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8300.11	8576.90	8535.80	8470.94	1.76	ppb
Antimony	121-1	502.29	504.71	510.51	505.84	0.83	ppb
Arsenic	75-2	3.79	3.73	3.58	3.70	2.87	ppb
Barium	135-1	2208.56	2211.12	2228.19	2215.96	0.48	ppb
Barium	137-1	2210.62	2176.16	2233.83	2206.87	1.31	ppb
Beryllium	9-1	462.44	463.94	472.83	466.40	1.20	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	453.94	454.95	464.19	457.69	1.23	ppb
Cadmium	106-1	485.90	485.16	496.52	489.19	1.30	ppb
Cadmium	111-1	477.59	485.42	489.03	484.01	1.21	ppb
Calcium	43-1	78331.46	78051.44	77999.24	78127.38	0.23	ppb
Calcium	44-1	76609.45	76761.96	75627.30	76332.90	0.81	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	475.37	475.92	474.99	475.42	0.10	ppb
Cobalt	59-2	477.42	482.32	484.95	481.56	0.79	ppb
Copper	63-2	4602.82	4710.48	4653.57	4655.62	1.16	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				101		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	37598.45	38566.58	38366.14	38177.06	1.34	ppb
Iron	56-2	37984.80	38164.50	38069.38	38072.89	0.24	ppb
Iron	57-2	38281.10	38541.37	38800.16	38540.88	0.67	ppb
Krypton	83-1						cps
Lead	206-1	2352.77	2457.99	2400.07	2403.61	2.19	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2351.41	2452.05	2399.14	2400.87	2.10	ppb
Lead	208-1	2347.95	2427.58	2387.00	2387.51	1.67	ppb
Lithium	6-1				107		%
Magnesium	24-2	46785.45	48684.77	47372.48	47614.24	2.04	ppb
Manganese	55-2	4699.87	4793.08	4821.33	4771.43	1.33	ppb
Molybdenum	94-1	2229.90	2272.28	2243.87	2248.69	0.96	ppb
Molybdenum	95-1	1704.81	1734.45	1688.54	1709.27	1.36	ppb
Molybdenum	96-1	1735.36	1763.91	1749.65	1749.64	0.82	ppb
Molybdenum	97-1	1673.48	1645.22	1719.39	1679.36	2.23	ppb
Molybdenum	98-1	1688.57	1689.56	1722.81	1700.31	1.15	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	446.60	454.60	453.68	451.63	0.97	ppb
Phosphorus	31-2	158.43	154.47	182.22	165.04	9.09	ppb
Potassium	39-2	21523.28	22286.68	22515.56	22108.51	2.35	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				105		%
Scandium	45-2				104		%
Selenium	82-1	465.87	478.36	473.29	472.51	1.33	ppb
Selenium	77-2	423.12	505.67	482.32	470.37	9.05	ppb
Selenium	78-2	445.09	475.12	483.89	468.04	4.35	ppb
Silicon	28-1	3454.41	3626.65	3379.98	3487.01	3.63	ppb
Silver	107-1	84.11	85.21	84.39	84.57	0.67	ppb
Silver	109-1	82.53	82.87	84.51	83.30	1.28	ppb
Sodium	23-2	95388.33	99141.22	97837.28	97455.61	1.96	ppb
Strontium	86-1	643.15	652.24	650.43	648.61	0.74	ppb
Strontium	88-1	639.19	651.02	645.13	645.11	0.92	ppb
Sulfur	34-1	1283.02	1059.85	1024.29	1122.39	12.50	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	467.77	495.22	469.42	477.47	3.22	ppb
Thallium	205-1	468.91	492.82	476.39	479.37	2.55	ppb
Tin	118-1	434.66	435.60	443.29	437.85	1.08	ppb
Titanium	47-1	6.18	9.61	17.87	11.22	53.55	ppb
Uranium	238-1	460.74	472.72	461.70	465.05	1.43	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	478.13	483.76	489.74	483.88	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	4613.08	4713.91	4641.72	4656.24	1.12	ppb
Zirconium	90-1	467.52	482.65	466.07	472.08	1.95	ppb
Zirconium	91-1	463.70	480.09	468.77	470.85	1.78	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47425.44	47440.47	47362.97	47409.63	0.09	ppb
Antimony	121-1	504.51	507.10	498.68	503.43	0.86	ppb
Arsenic	75-2	490.81	492.55	489.45	490.94	0.32	ppb
Barium	135-1	2552.40	2523.32	2509.65	2528.46	0.86	ppb
Barium	137-1	2540.83	2557.43	2514.70	2537.66	0.85	ppb
Beryllium	9-1	486.55	495.57	495.99	492.70	1.08	ppb
Bismuth	209-1				89		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	501.03	510.36	501.38	504.25	1.05	ppb
Cadmium	106-1	508.81	513.58	495.97	506.12	1.80	ppb
Cadmium	111-1	502.04	500.54	483.51	495.36	2.08	ppb
Calcium	43-1	243790.43	240502.98	232950.45	239081.29	2.32	ppb
Calcium	44-1	239602.04	238081.01	227153.83	234945.62	2.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	491.89	484.90	498.29	491.69	1.36	ppb
Cobalt	59-2	485.76	476.50	491.79	484.68	1.59	ppb
Copper	63-2	4656.82	4628.25	4737.21	4674.09	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				100		%
Holmium	165-2				99		%
Indium	115-1				95		%
Indium	115-2				92		%
Iron	54-2	118828.27	117733.40	121242.02	119267.90	1.51	ppb
Iron	56-2	117976.89	117550.80	119792.55	118440.08	1.01	ppb
Iron	57-2	118363.95	117405.29	120683.44	118817.56	1.42	ppb
Krypton	83-1						cps
Lead	206-1	2600.90	2591.62	2560.29	2584.27	0.82	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2560.30	2596.43	2553.24	2569.99	0.90	ppb
Lead	208-1	2558.63	2590.71	2521.19	2556.84	1.36	ppb
Lithium	6-1				98		%
Magnesium	24-2	239168.08	239045.26	237721.30	238644.88	0.34	ppb
Manganese	55-2	4764.98	4765.50	4934.21	4821.56	2.02	ppb
Molybdenum	94-1	5117.04	4992.53	4999.26	5036.28	1.39	ppb
Molybdenum	95-1	5103.95	5043.50	4983.96	5043.80	1.19	ppb
Molybdenum	96-1	4979.31	5022.16	4966.41	4989.29	0.58	ppb
Molybdenum	97-1	4912.00	5002.69	4986.30	4967.00	0.97	ppb
Molybdenum	98-1	5049.43	4941.97	4944.52	4978.64	1.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	450.14	445.85	456.13	450.71	1.15	ppb
Phosphorus	31-2	9674.87	9657.86	9642.00	9658.24	0.17	ppb
Potassium	39-2	119323.58	116829.43	118573.23	118242.08	1.08	ppb
Rhodium	103-1				90		%
Rhodium	103-2				91		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	483.28	477.73	472.48	477.83	1.13	ppb
Selenium	77-2	478.65	492.11	533.64	501.46	5.72	ppb
Selenium	78-2	475.89	482.78	481.75	480.14	0.77	ppb
Silicon	28-1	516.87	510.08	498.69	508.55	1.81	ppb
Silver	107-1	493.67	491.61	469.38	484.89	2.78	ppb
Silver	109-1	491.65	494.47	477.42	487.84	1.87	ppb
Sodium	23-2	241448.88	237853.82	239769.30	239690.67	0.75	ppb
Strontium	86-1	509.85	508.56	501.31	506.57	0.91	ppb
Strontium	88-1	495.25	511.27	495.31	500.61	1.84	ppb
Sulfur	34-1	10793.46	10677.61	10063.23	10511.43	3.73	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	527.58	524.10	522.40	524.69	0.50	ppb
Thallium	205-1	520.47	509.42	509.93	513.27	1.22	ppb
Tin	118-1	498.26	509.17	497.30	501.58	1.31	ppb
Titanium	47-1	5079.60	4950.82	4967.93	4999.45	1.40	ppb
Uranium	238-1	509.60	519.91	506.66	512.06	1.36	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	510.19	485.95	498.26	498.14	2.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				98		%
Zinc	66-2	4728.00	4655.22	4766.34	4716.52	1.20	ppb
Zirconium	90-1	525.00	505.21	501.70	510.64	2.46	ppb
Zirconium	91-1	516.13	517.87	506.03	513.34	1.24	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.61	1.03	0.48	0.71	40.75	ppb
Antimony	121-1	0.08	0.07	0.07	0.07	6.79	ppb
Arsenic	75-2	-0.01	-0.01	0.01	0.00		ppb
Barium	135-1	0.06	0.03	0.04	0.04	37.58	ppb
Barium	137-1	0.06	0.04	0.03	0.04	38.36	ppb
Beryllium	9-1	0.30	0.26	0.24	0.27	11.72	ppb
Bismuth	209-1				97		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.00	0.02	0.01	105.13	ppb
Cadmium	106-1	0.33	-0.04	0.44	0.24	104.03	ppb
Cadmium	111-1	0.05	0.02	0.06	0.04	47.27	ppb
Calcium	43-1	3.23	0.91	0.91	1.69	79.19	ppb
Calcium	44-1	7.21	2.00	2.35	3.85	75.71	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.15	0.15	0.13	0.15	6.39	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	15.57	ppb
Copper	63-2	0.11	0.11	0.16	0.13	23.75	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				102		%
Indium	115-2				99		%
Iron	54-2	3.70	3.48	3.46	3.55	3.68	ppb
Iron	56-2	3.61	3.77	3.89	3.76	3.75	ppb
Iron	57-2	3.05	3.63	3.06	3.25	10.23	ppb
Krypton	83-1						cps
Lead	206-1	0.27	0.21	0.20	0.23	15.58	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.28	0.20	0.19	0.22	22.20	ppb
Lead	208-1	0.27	0.21	0.20	0.23	16.24	ppb
Lithium	6-1				105		%
Magnesium	24-2	-1.56	0.12	-1.02	-0.82		ppb
Manganese	55-2	0.19	0.20	0.18	0.19	4.87	ppb
Molybdenum	94-1	0.19	0.12	0.14	0.15	25.01	ppb
Molybdenum	95-1	0.14	0.10	0.09	0.11	22.76	ppb
Molybdenum	96-1	0.16	0.10	0.11	0.12	25.62	ppb
Molybdenum	97-1	0.16	0.09	0.09	0.11	34.74	ppb
Molybdenum	98-1	0.14	0.09	0.09	0.11	24.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.38	0.38	0.43	0.40	6.87	ppb
Phosphorus	31-2	-22.22	-28.47	-30.96	-27.22		ppb
Potassium	39-2	39.03	36.64	36.22	37.30	4.06	ppb
Rhodium	103-1				100		%
Rhodium	103-2				104		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	-0.08	-0.14	-0.09	-0.10		ppb
Selenium	77-2	0.68	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.61	-0.02	-0.03	-0.22		ppb
Silicon	28-1	3.86	-0.63	-1.51	0.58	501.09	ppb
Silver	107-1	0.03	0.04	0.03	0.03	10.89	ppb
Silver	109-1	0.04	0.03	0.03	0.03	16.13	ppb
Sodium	23-2	53.06	50.06	47.74	50.29	5.30	ppb
Strontium	86-1	0.03	0.01	0.00	0.01	104.66	ppb
Strontium	88-1	0.02	0.01	0.01	0.02	29.87	ppb
Sulfur	34-1	855.32	-103.74	-307.81	147.92	419.86	ppb
Terbium	159-1				99		%
Terbium	159-2				102		%
Thallium	203-1	0.09	0.07	0.07	0.08	13.29	ppb
Thallium	205-1	0.09	0.07	0.07	0.08	13.29	ppb
Tin	118-1	0.02	0.00	0.00	0.01	320.20	ppb
Titanium	47-1	0.10	0.04	0.07	0.07	40.52	ppb
Uranium	238-1	0.01	0.00	0.00	0.01	40.25	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	8.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	0.03	-0.03	-0.06	-0.02		ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	15.61	ppb
Zirconium	91-1	0.03	0.02	0.03	0.03	3.32	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.45	0.10	0.57	0.37	65.70	ppb
Antimony	121-1	0.02	0.03	0.02	0.02	4.11	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.01	0.00	0.01	0.01	51.65	ppb
Barium	137-1	0.01	0.01	0.01	0.01	22.67	ppb
Beryllium	9-1	0.16	0.17	0.16	0.16	4.40	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.00	0.01	0.02	84.04	ppb
Cadmium	106-1	-0.73	-0.71	0.42	-0.34		ppb
Cadmium	111-1	-0.04	-0.05	0.04	-0.02		ppb
Calcium	43-1	-1.19	-0.78	-1.35	-1.10		ppb
Calcium	44-1	-1.75	-2.05	-2.10	-1.96		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.19	-0.17	-0.16	-0.17		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	34.90	ppb
Copper	63-2	0.00	0.02	0.00	0.00	213.41	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				106		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	0.66	0.77	1.07	0.83	25.12	ppb
Iron	56-2	1.06	1.26	1.05	1.12	10.40	ppb
Iron	57-2	0.75	-0.05	0.23	0.31	132.19	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.13	0.13	0.14	11.19	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.14	0.14	0.14	3.44	ppb
Lead	208-1	0.15	0.14	0.14	0.14	4.34	ppb
Lithium	6-1				110		%
Magnesium	24-2	-3.48	-2.72	-3.67	-3.29		ppb
Manganese	55-2	0.06	0.08	0.07	0.07	18.60	ppb
Molybdenum	94-1	0.05	0.05	0.07	0.06	24.98	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.02	ppb
Molybdenum	96-1	0.03	0.03	0.03	0.03	8.64	ppb
Molybdenum	97-1	0.03	0.02	0.03	0.03	10.18	ppb
Molybdenum	98-1	0.03	0.02	0.03	0.03	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.23	0.31	0.27	16.88	ppb
Phosphorus	31-2	-34.59	-30.41	-26.27	-30.42		ppb
Potassium	39-2	28.86	30.08	32.06	30.33	5.33	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	-0.33	-0.63	-0.13	-0.36		ppb
Selenium	77-2	0.00	1.33	0.00	0.44	173.21	ppb
Selenium	78-2	-0.81	-0.43	-0.23	-0.49		ppb
Silicon	28-1	-2.29	-3.03	-3.26	-2.86		ppb
Silver	107-1	0.01	0.01	0.02	0.01	14.79	ppb
Silver	109-1	0.01	0.01	0.01	0.01	7.41	ppb
Sodium	23-2	25.00	22.94	23.15	23.70	4.79	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00	887.85	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	13.46	ppb
Sulfur	34-1	-533.80	-550.11	-564.96	-549.63		ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.04	0.04	0.04	3.67	ppb
Thallium	205-1	0.05	0.05	0.04	0.05	13.77	ppb
Tin	118-1	0.00	0.01	0.02	0.01	74.01	ppb
Titanium	47-1	0.01	0.04	0.02	0.02	53.83	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	119.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				104		%
Zinc	66-2	0.90	0.99	0.83	0.90	8.75	ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	36.00	ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	32.36	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9343.39	9349.93	9390.59	9361.30	0.27	ppb
Antimony	121-1	505.90	514.59	512.96	511.15	0.90	ppb
Arsenic	75-2	500.70	508.56	511.68	506.98	1.12	ppb
Barium	135-1	2522.05	2571.54	2591.43	2561.67	1.39	ppb
Barium	137-1	2513.96	2594.91	2594.98	2567.95	1.82	ppb
Beryllium	9-1	485.83	474.50	496.09	485.47	2.22	ppb
Bismuth	209-1				97		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	509.51	520.14	533.77	521.14	2.33	ppb
Cadmium	106-1	519.15	528.64	535.49	527.76	1.55	ppb
Cadmium	111-1	517.70	516.62	526.43	520.25	1.03	ppb
Calcium	43-1	49080.28	49878.02	48776.79	49245.03	1.16	ppb
Calcium	44-1	48191.71	49497.66	48900.88	48863.42	1.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.32	511.78	512.04	512.05	0.05	ppb
Cobalt	59-2	513.84	512.91	515.33	514.03	0.24	ppb
Copper	63-2	5062.32	4918.26	5008.29	4996.29	1.46	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				104		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	54-2	24958.01	24934.38	25307.91	25066.77	0.83	ppb
Iron	56-2	24711.48	24865.49	24523.99	24700.32	0.69	ppb
Iron	57-2	25048.02	25454.77	24993.61	25165.47	1.00	ppb
Krypton	83-1						cps
Lead	206-1	2522.96	2535.01	2555.67	2537.88	0.65	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2486.50	2507.33	2579.57	2524.47	1.93	ppb
Lead	208-1	2499.09	2510.58	2558.58	2522.75	1.25	ppb
Lithium	6-1				105		%
Magnesium	24-2	50049.17	50080.81	50785.73	50305.23	0.83	ppb
Manganese	55-2	5006.02	5013.24	4996.92	5005.39	0.16	ppb
Molybdenum	94-1	5031.39	5056.85	5082.61	5056.95	0.51	ppb
Molybdenum	95-1	5017.93	5098.84	5065.34	5060.70	0.80	ppb
Molybdenum	96-1	5037.83	5069.59	5128.16	5078.53	0.90	ppb
Molybdenum	97-1	5061.27	5029.58	5089.55	5060.13	0.59	ppb
Molybdenum	98-1	5050.77	5027.20	5076.36	5051.44	0.49	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	479.48	477.63	482.04	479.72	0.46	ppb
Phosphorus	31-2	9678.38	9788.88	9840.47	9769.24	0.85	ppb
Potassium	39-2	24256.14	24168.33	24271.95	24232.14	0.23	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				106		%
Scandium	45-2				104		%
Selenium	82-1	498.62	514.12	495.09	502.61	2.01	ppb
Selenium	77-2	490.37	491.85	501.71	494.64	1.25	ppb
Selenium	78-2	493.34	496.37	495.76	495.16	0.32	ppb
Silicon	28-1	490.85	501.10	487.96	493.30	1.40	ppb
Silver	107-1	513.88	521.92	524.76	520.19	1.08	ppb
Silver	109-1	517.55	516.71	531.38	521.88	1.58	ppb
Sodium	23-2	50904.81	50531.36	50763.39	50733.19	0.37	ppb
Strontium	86-1	508.16	522.96	513.89	515.00	1.45	ppb
Strontium	88-1	501.69	515.82	511.72	509.74	1.43	ppb
Sulfur	34-1	9666.15	9980.83	9312.29	9653.09	3.46	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	508.06	503.13	510.76	507.32	0.76	ppb
Thallium	205-1	505.02	507.96	506.98	506.65	0.30	ppb
Tin	118-1	508.29	517.45	527.58	517.77	1.86	ppb
Titanium	47-1	5025.17	5139.04	5078.56	5080.92	1.12	ppb
Uranium	238-1	481.22	486.51	492.88	486.87	1.20	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	500.54	497.14	512.96	503.55	1.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				101		%
Zinc	66-2	4914.98	4850.30	4951.77	4905.68	1.05	ppb
Zirconium	90-1	500.98	509.73	504.97	505.23	0.87	ppb
Zirconium	91-1	507.85	512.56	512.81	511.07	0.55	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.07	17.84	18.28	18.73	6.32	ppb
Antimony	121-1	0.15	0.13	0.12	0.13	9.95	ppb
Arsenic	75-2	1.27	1.51	1.22	1.33	11.63	ppb
Barium	135-1	44.58	45.09	45.41	45.02	0.93	ppb
Barium	137-1	45.07	45.13	44.95	45.05	0.20	ppb
Beryllium	9-1	0.32	0.31	0.30	0.31	2.77	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.07	0.14	0.09	42.14	ppb
Cadmium	106-1	-0.89	-0.95	0.97	-0.29		ppb
Cadmium	111-1	0.04	0.03	0.16	0.07	97.68	ppb
Calcium	43-1	9891.83	9784.21	10036.76	9904.27	1.28	ppb
Calcium	44-1	10060.75	9967.18	9875.25	9967.73	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.11	0.14	0.13	0.13	13.31	ppb
Cobalt	59-2	5.97	5.98	5.93	5.96	0.48	ppb
Copper	63-2	0.66	0.69	0.67	0.67	2.24	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				107		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	54-2	7168.97	7136.30	7240.98	7182.08	0.75	ppb
Iron	56-2	7373.52	7368.50	7330.21	7357.41	0.32	ppb
Iron	57-2	7189.11	7142.62	7189.59	7173.77	0.38	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.33	0.31	0.33	5.13	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.36	0.34	0.32	0.34	6.57	ppb
Lead	208-1	0.35	0.33	0.31	0.33	6.74	ppb
Lithium	6-1				110		%
Magnesium	24-2	8456.33	8336.92	8276.78	8356.68	1.09	ppb
Manganese	55-2	4123.19	4086.51	4105.19	4104.96	0.45	ppb
Molybdenum	94-1	0.33	0.27	0.23	0.28	17.47	ppb
Molybdenum	95-1	0.29	0.25	0.20	0.25	17.73	ppb
Molybdenum	96-1	0.30	0.26	0.22	0.26	14.27	ppb
Molybdenum	97-1	0.27	0.21	0.20	0.23	16.79	ppb
Molybdenum	98-1	0.27	0.25	0.20	0.24	15.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.99	18.70	19.03	18.91	0.94	ppb
Phosphorus	31-2	-11.85	-18.38	-17.72	-15.98		ppb
Potassium	39-2	2217.09	2215.74	2237.66	2223.50	0.55	ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				110		%
Scandium	45-2				107		%
Selenium	82-1	0.21	0.26	-0.14	0.11	198.90	ppb
Selenium	77-2	0.63	0.00	1.99	0.87	116.27	ppb
Selenium	78-2	-0.82	0.31	0.54	0.01	7255.74	ppb
Silicon	28-1	2096.03	2068.55	2032.64	2065.74	1.54	ppb
Silver	107-1	0.06	0.05	0.05	0.05	14.76	ppb
Silver	109-1	0.06	0.05	0.05	0.05	9.20	ppb
Sodium	23-2	3357.82	3370.67	3399.00	3375.83	0.62	ppb
Strontium	86-1	51.26	51.42	51.36	51.34	0.16	ppb
Strontium	88-1	52.94	53.16	53.41	53.17	0.44	ppb
Sulfur	34-1	3650.64	3340.62	3401.86	3464.37	4.74	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.07	0.07	0.07	0.07	5.84	ppb
Thallium	205-1	0.08	0.07	0.06	0.07	9.47	ppb
Tin	118-1	0.16	0.17	0.17	0.17	2.64	ppb
Titanium	47-1	0.49	0.49	0.39	0.46	13.43	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	7.36	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.27	0.27	0.29	0.28	3.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				107		%
Zinc	66-2	11.77	11.90	11.23	11.63	3.06	ppb
Zirconium	90-1	0.04	0.03	0.04	0.04	9.44	ppb
Zirconium	91-1	0.03	0.04	0.04	0.04	8.49	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	16.58	18.33	15.53	16.81	8.43	ppb
Antimony	121-1	0.05	0.05	0.06	0.05	9.25	ppb
Arsenic	75-2	0.08	0.04	0.15	0.09	60.14	ppb
Barium	135-1	22.10	22.48	23.01	22.53	2.01	ppb
Barium	137-1	21.98	22.49	23.07	22.51	2.43	ppb
Beryllium	9-1	0.16	0.16	0.16	0.16	0.84	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.06	0.00	0.06	89.09	ppb
Cadmium	106-1	-0.15	-0.15	-0.12	-0.14		ppb
Cadmium	111-1	0.00	0.01	0.01	0.01	69.66	ppb
Calcium	43-1	26808.26	27100.81	27416.30	27108.46	1.12	ppb
Calcium	44-1	25824.98	26754.52	27465.54	26681.68	3.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.22	0.21	0.25	0.23	9.76	ppb
Cobalt	59-2	1.98	2.06	1.99	2.01	2.06	ppb
Copper	63-2	0.39	0.40	0.43	0.41	5.09	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				104		%
Indium	115-1				109		%
Indium	115-2				102		%
Iron	54-2	56.42	56.29	58.91	57.21	2.58	ppb
Iron	56-2	57.17	57.79	56.38	57.11	1.24	ppb
Iron	57-2	58.40	57.78	57.63	57.94	0.70	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.37	0.37	0.36	4.10	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.34	0.37	0.36	0.36	3.55	ppb
Lead	208-1	0.35	0.37	0.37	0.36	2.13	ppb
Lithium	6-1				109		%
Magnesium	24-2	5669.56	5481.37	5597.42	5582.78	1.70	ppb
Manganese	55-2	295.62	295.84	294.28	295.24	0.29	ppb
Molybdenum	94-1	0.14	0.14	0.14	0.14	2.33	ppb
Molybdenum	95-1	0.09	0.08	0.09	0.09	1.84	ppb
Molybdenum	96-1	0.08	0.09	0.11	0.09	13.40	ppb
Molybdenum	97-1	0.10	0.09	0.09	0.09	4.98	ppb
Molybdenum	98-1	0.09	0.08	0.07	0.08	10.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	1.19	1.11	1.11	6.42	ppb
Phosphorus	31-2	-23.93	-15.69	-20.71	-20.11		ppb
Potassium	39-2	2744.49	2702.50	2682.93	2709.97	1.16	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	2.18	2.21	2.93	2.44	17.43	ppb
Selenium	77-2	2.65	6.59	3.33	4.19	50.26	ppb
Selenium	78-2	2.27	3.02	1.90	2.39	23.84	ppb
Silicon	28-1	3487.95	3627.83	3698.87	3604.89	2.98	ppb
Silver	107-1	0.02	0.01	0.02	0.01	15.94	ppb
Silver	109-1	0.01	0.01	0.02	0.01	10.43	ppb
Sodium	23-2	10224.65	10158.04	10161.44	10181.38	0.37	ppb
Strontium	86-1	84.08	87.08	87.50	86.22	2.16	ppb
Strontium	88-1	86.86	89.53	89.04	88.48	1.61	ppb
Sulfur	34-1	7776.46	8145.12	8317.87	8079.82	3.42	ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.06	0.05	0.06	8.37	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	2.52	ppb
Tin	118-1	0.63	0.64	0.69	0.65	4.87	ppb
Titanium	47-1	0.63	0.68	0.70	0.67	5.24	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	4.14	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.07	0.07	0.08	0.07	7.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				104		%
Zinc	66-2	4.61	4.42	4.91	4.64	5.32	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.23	ppb
Zirconium	91-1	0.04	0.11	0.03	0.06	64.23	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	183.53	183.90	190.52	185.98	2.12	ppb
Antimony	121-1	0.06	0.06	0.05	0.06	3.42	ppb
Arsenic	75-2	4.57	4.36	4.61	4.51	2.95	ppb
Barium	135-1	39.56	40.77	39.37	39.90	1.91	ppb
Barium	137-1	41.31	41.30	39.57	40.73	2.46	ppb
Beryllium	9-1	0.16	0.16	0.15	0.16	4.27	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.10	0.10	0.09	11.40	ppb
Cadmium	106-1	1.11	1.09	0.15	0.78	70.12	ppb
Cadmium	111-1	0.09	0.09	0.02	0.07	65.50	ppb
Calcium	43-1	13477.31	13321.00	13332.12	13376.81	0.65	ppb
Calcium	44-1	13561.06	13301.02	13088.69	13316.92	1.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.23	1.15	1.20	1.19	3.55	ppb
Cobalt	59-2	7.26	7.09	7.30	7.22	1.59	ppb
Copper	63-2	0.78	0.87	0.83	0.83	5.71	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				107		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				102		%
Iron	54-2	36070.37	35931.96	36988.82	36330.38	1.58	ppb
Iron	56-2	36450.07	36230.20	36381.16	36353.81	0.31	ppb
Iron	57-2	37681.73	37145.85	36430.73	37086.10	1.69	ppb
Krypton	83-1						cps
Lead	206-1	0.33	0.32	0.33	0.33	1.96	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.37	0.36	0.33	0.35	5.94	ppb
Lead	208-1	0.35	0.34	0.33	0.34	2.39	ppb
Lithium	6-1				110		%
Magnesium	24-2	2892.19	2835.59	2884.41	2870.73	1.07	ppb
Manganese	55-2	1061.42	1074.75	1109.18	1081.79	2.28	ppb
Molybdenum	94-1	0.85	0.85	0.89	0.86	2.47	ppb
Molybdenum	95-1	0.29	0.32	0.29	0.30	4.92	ppb
Molybdenum	96-1	0.38	0.38	0.39	0.38	2.19	ppb
Molybdenum	97-1	0.30	0.29	0.29	0.29	1.62	ppb
Molybdenum	98-1	0.30	0.30	0.29	0.29	2.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.09	1.97	1.92	1.99	4.32	ppb
Phosphorus	31-2	-4.44	-9.14	4.18	-3.13		ppb
Potassium	39-2	2492.18	2500.84	2525.45	2506.16	0.69	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				109		%
Scandium	45-2				107		%
Selenium	82-1	0.28	0.15	0.08	0.17	60.36	ppb
Selenium	77-2	1.31	2.58	0.66	1.52	64.26	ppb
Selenium	78-2	-0.05	-0.25	0.54	0.08	530.21	ppb
Silicon	28-1	2260.08	2250.08	2319.97	2276.71	1.66	ppb
Silver	107-1	0.01	0.01	0.01	0.01	12.29	ppb
Silver	109-1	0.01	0.01	0.01	0.01	14.04	ppb
Sodium	23-2	1753.14	1728.57	1700.90	1727.54	1.51	ppb
Strontium	86-1	51.96	53.07	52.53	52.52	1.05	ppb
Strontium	88-1	55.46	54.40	55.40	55.09	1.08	ppb
Sulfur	34-1	11177.27	11109.80	11460.76	11249.27	1.66	ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.03	0.03	0.03	0.03	8.07	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	1.09	ppb
Tin	118-1	0.24	0.23	0.25	0.24	4.01	ppb
Titanium	47-1	4.36	4.92	4.76	4.68	6.25	ppb
Uranium	238-1	0.10	0.10	0.10	0.10	1.88	ppb

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.01	2.97	2.99	2.99	0.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				105		%
Zinc	66-2	3.96	4.03	4.11	4.04	1.83	ppb
Zirconium	90-1	0.32	0.31	0.32	0.32	2.17	ppb
Zirconium	91-1	0.34	0.37	0.33	0.35	6.78	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	534.19	548.27	535.58	539.35	1.44	ppb
Antimony	121-1	0.06	0.07	0.06	0.06	6.68	ppb
Arsenic	75-2	4.87	4.57	4.93	4.79	4.02	ppb
Barium	135-1	38.91	42.23	41.53	40.89	4.28	ppb
Barium	137-1	39.42	42.10	42.36	41.29	3.95	ppb
Beryllium	9-1	0.15	0.14	0.15	0.15	1.15	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.26	0.56	0.31	77.89	ppb
Cadmium	106-1	0.59	0.79	1.19	0.86	35.49	ppb
Cadmium	111-1	0.05	0.05	0.07	0.06	21.44	ppb
Calcium	43-1	12800.74	13006.49	13431.32	13079.51	2.46	ppb
Calcium	44-1	12912.39	13152.18	13468.53	13177.70	2.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.63	1.57	1.54	1.58	2.92	ppb
Cobalt	59-2	7.47	7.42	7.30	7.40	1.18	ppb
Copper	63-2	0.96	1.08	0.95	1.00	7.47	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				108		%
Holmium	165-2				104		%
Indium	115-1				109		%
Indium	115-2				102		%
Iron	54-2	37817.01	37588.45	37145.86	37517.11	0.91	ppb
Iron	56-2	38195.77	36940.54	36566.95	37234.42	2.29	ppb
Iron	57-2	38172.39	37525.96	37758.27	37818.87	0.87	ppb
Krypton	83-1						cps
Lead	206-1	0.37	0.36	0.38	0.37	3.61	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.34	0.34	0.35	0.35	1.89	ppb
Lead	208-1	0.38	0.37	0.38	0.38	0.84	ppb
Lithium	6-1				108		%
Magnesium	24-2	2981.88	2930.52	2905.49	2939.30	1.32	ppb
Manganese	55-2	1124.41	1090.19	1057.34	1090.64	3.08	ppb
Molybdenum	94-1	1.16	2.82	1.21	1.73	54.60	ppb
Molybdenum	95-1	0.28	0.29	0.29	0.29	1.89	ppb
Molybdenum	96-1	0.48	0.42	0.61	0.50	19.08	ppb
Molybdenum	97-1	0.27	0.28	0.33	0.29	10.34	ppb
Molybdenum	98-1	0.27	0.27	0.27	0.27	0.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.24	2.26	2.40	2.30	3.71	ppb
Phosphorus	31-2	4.59	-2.71	-1.16	0.24	1606.82	ppb
Potassium	39-2	2596.23	2552.43	2589.09	2579.25	0.91	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	0.00	0.22	0.22	0.15	85.64	ppb
Selenium	77-2	2.61	1.98	5.29	3.29	53.45	ppb
Selenium	78-2	-0.44	0.33	0.15	0.01	2806.73	ppb
Silicon	28-1	2601.46	2608.97	2756.57	2655.67	3.29	ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.61	ppb
Silver	109-1	0.01	0.01	0.00	0.01	19.47	ppb
Sodium	23-2	1797.63	1765.79	1773.71	1779.05	0.93	ppb
Strontium	86-1	49.75	52.28	53.15	51.72	3.42	ppb
Strontium	88-1	52.57	54.67	54.51	53.92	2.16	ppb
Sulfur	34-1	10671.32	10511.86	11136.44	10773.21	3.01	ppb
Terbium	159-1				106		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.02	0.03	0.02	12.18	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	7.46	ppb
Tin	118-1	0.24	0.25	0.27	0.25	6.93	ppb
Titanium	47-1	23.39	24.79	26.34	24.84	5.95	ppb
Uranium	238-1	0.10	0.11	0.12	0.11	8.78	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.58	3.54	3.34	3.49	3.57	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				105		%
Zinc	66-2	4.21	4.31	4.32	4.28	1.43	ppb
Zirconium	90-1	0.74	0.63	0.70	0.69	8.64	ppb
Zirconium	91-1	0.61	0.85	1.08	0.85	28.07	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	55.06	46.44	45.23	48.91	10.96	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	7.17	ppb
Arsenic	75-2	0.92	1.05	0.87	0.94	9.90	ppb
Barium	135-1	7.78	8.00	8.11	7.96	2.11	ppb
Barium	137-1	7.76	8.25	7.94	7.98	3.06	ppb
Beryllium	9-1	0.10	0.11	0.10	0.10	3.81	ppb
Bismuth	209-1				104		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.00	0.03	0.04	91.01	ppb
Cadmium	106-1	-0.37	0.65	0.43	0.24	228.41	ppb
Cadmium	111-1	-0.03	0.06	0.04	0.02	203.16	ppb
Calcium	43-1	2536.84	2660.00	2608.86	2601.90	2.38	ppb
Calcium	44-1	2593.81	2723.09	2641.14	2652.68	2.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.30	0.29	0.38	0.32	15.74	ppb
Cobalt	59-2	1.44	1.50	1.46	1.47	1.98	ppb
Copper	63-2	0.18	0.17	0.13	0.16	15.88	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				107		%
Holmium	165-2				101		%
Indium	115-1				110		%
Indium	115-2				100		%
Iron	54-2	7237.50	7245.97	7247.37	7243.61	0.07	ppb
Iron	56-2	7580.64	7508.49	7473.68	7520.94	0.73	ppb
Iron	57-2	7186.70	7251.27	7242.44	7226.80	0.48	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.12	0.11	0.12	4.98	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.12	0.12	0.12	7.17	ppb
Lead	208-1	0.12	0.12	0.12	0.12	3.68	ppb
Lithium	6-1				110		%
Magnesium	24-2	587.87	581.17	584.22	584.42	0.57	ppb
Manganese	55-2	208.90	212.10	208.42	209.81	0.95	ppb
Molybdenum	94-1	0.18	0.24	0.20	0.20	15.07	ppb
Molybdenum	95-1	0.07	0.07	0.07	0.07	1.42	ppb
Molybdenum	96-1	0.09	0.09	0.08	0.09	8.42	ppb
Molybdenum	97-1	0.07	0.07	0.06	0.07	7.24	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	4.30	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.86	0.80	0.82	0.82	3.86	ppb
Phosphorus	31-2	-27.90	-17.35	-23.20	-22.82		ppb
Potassium	39-2	537.14	539.85	540.24	539.07	0.31	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	-0.21	-0.38	-0.10	-0.23		ppb
Selenium	77-2	0.68	0.66	1.34	0.89	43.43	ppb
Selenium	78-2	-0.41	-0.24	0.35	-0.10		ppb
Silicon	28-1	447.43	464.09	455.19	455.57	1.83	ppb
Silver	107-1	0.00	0.01	0.01	0.01	20.77	ppb
Silver	109-1	0.00	0.01	0.00	0.00	74.73	ppb
Sodium	23-2	374.27	369.98	371.21	371.82	0.60	ppb
Strontium	86-1	10.03	10.50	10.19	10.24	2.34	ppb
Strontium	88-1	10.07	10.55	10.26	10.29	2.37	ppb
Sulfur	34-1	2239.93	2729.49	2161.46	2376.96	12.95	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.02	0.02	0.02	24.66	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	8.28	ppb
Tin	118-1	0.02	0.05	0.03	0.03	52.36	ppb
Titanium	47-1	0.96	1.26	1.03	1.09	14.37	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.55	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.65	0.59	0.56	0.60	7.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				104		%
Zinc	66-2	0.86	0.94	0.83	0.88	6.30	ppb
Zirconium	90-1	0.06	0.07	0.07	0.07	5.49	ppb
Zirconium	91-1	0.07	0.08	0.36	0.17	98.50	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8538.73	8479.39	7703.41	8240.51	5.66	ppb
Antimony	121-1	487.15	494.78	493.68	491.87	0.84	ppb
Arsenic	75-2	4.45	4.21	4.20	4.29	3.34	ppb
Barium	135-1	2213.14	2231.46	2222.58	2222.39	0.41	ppb
Barium	137-1	2167.79	2251.73	2219.71	2213.08	1.91	ppb
Beryllium	9-1	448.44	470.21	471.38	463.35	2.79	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	447.37	459.50	455.43	454.10	1.36	ppb
Cadmium	106-1	479.17	493.99	494.05	489.07	1.75	ppb
Cadmium	111-1	480.06	488.29	482.37	483.57	0.88	ppb
Calcium	43-1	57049.76	56990.65	57705.52	57248.64	0.69	ppb
Calcium	44-1	55496.74	55440.86	56683.83	55873.81	1.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	472.88	480.84	430.37	461.36	5.88	ppb
Cobalt	59-2	496.03	498.71	448.69	481.14	5.85	ppb
Copper	63-2	4763.28	4725.27	4385.94	4624.83	4.49	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				106		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	55823.92	56182.04	51095.57	54367.17	5.22	ppb
Iron	56-2	56093.96	55848.80	50384.04	54108.93	5.97	ppb
Iron	57-2	55368.33	55599.70	50833.21	53933.75	4.98	ppb
Krypton	83-1						cps
Lead	206-1	2340.25	2348.79	2392.90	2360.65	1.20	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2330.60	2380.26	2407.75	2372.87	1.65	ppb
Lead	208-1	2308.65	2362.41	2402.57	2357.88	2.00	ppb
Lithium	6-1				107		%
Magnesium	24-2	48932.09	48310.35	44576.23	47272.89	4.98	ppb
Manganese	55-2	5721.05	5732.40	5223.46	5558.97	5.23	ppb
Molybdenum	94-1	2169.83	2245.73	2248.01	2221.19	2.00	ppb
Molybdenum	95-1	1686.84	1681.22	1728.66	1698.91	1.53	ppb
Molybdenum	96-1	1714.21	1744.50	1772.35	1743.68	1.67	ppb
Molybdenum	97-1	1666.30	1702.33	1721.35	1696.66	1.65	ppb
Molybdenum	98-1	1652.17	1712.48	1720.93	1695.19	2.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	456.74	462.20	420.45	446.46	5.08	ppb
Phosphorus	31-2	6.36	1.44	-7.01	0.27	2546.23	ppb
Potassium	39-2	23273.01	23074.11	21531.21	22626.11	4.21	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	456.26	470.79	478.73	468.60	2.43	ppb
Selenium	77-2	511.49	474.07	449.09	478.22	6.57	ppb
Selenium	78-2	485.57	452.10	428.36	455.34	6.31	ppb
Silicon	28-1	2048.81	2046.49	2105.05	2066.79	1.60	ppb
Silver	107-1	83.97	86.41	87.57	85.98	2.14	ppb
Silver	109-1	84.58	86.38	85.20	85.39	1.07	ppb
Sodium	23-2	47942.54	47911.95	43671.78	46508.76	5.28	ppb
Strontium	86-1	600.01	621.00	618.52	613.18	1.87	ppb
Strontium	88-1	587.20	606.91	617.76	603.96	2.57	ppb
Sulfur	34-1	10117.38	10048.37	10236.62	10134.12	0.94	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	462.29	463.18	469.09	464.85	0.80	ppb
Thallium	205-1	457.00	464.86	470.32	464.06	1.44	ppb
Tin	118-1	444.30	453.51	453.43	450.41	1.18	ppb
Titanium	47-1	5.76	5.72	5.44	5.64	3.05	ppb
Uranium	238-1	434.47	451.59	464.09	450.05	3.30	ppb

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Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	495.15	493.44	453.35	480.64	4.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				104		%
Zinc	66-2	4775.58	4755.36	4299.31	4610.08	5.84	ppb
Zirconium	90-1	453.92	468.77	469.90	464.19	1.92	ppb
Zirconium	91-1	464.29	470.81	466.71	467.27	0.71	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8432.56	8510.12	8349.56	8430.75	0.95	ppb
Antimony	121-1	500.33	502.67	495.95	499.65	0.68	ppb
Arsenic	75-2	4.29	4.30	4.86	4.48	7.21	ppb
Barium	135-1	2236.34	2266.31	2215.25	2239.30	1.15	ppb
Barium	137-1	2226.10	2272.64	2203.70	2234.14	1.57	ppb
Beryllium	9-1	465.96	475.38	459.86	467.07	1.67	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	466.42	464.93	462.57	464.64	0.42	ppb
Cadmium	106-1	495.79	497.48	498.99	497.42	0.32	ppb
Cadmium	111-1	498.48	498.95	492.65	496.70	0.71	ppb
Calcium	43-1	56228.54	57532.96	56533.25	56764.92	1.20	ppb
Calcium	44-1	55898.79	56391.12	55646.69	55978.87	0.68	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	471.06	486.07	480.61	479.25	1.58	ppb
Cobalt	59-2	488.90	498.00	486.45	491.12	1.24	ppb
Copper	63-2	4752.25	4739.14	4733.76	4741.72	0.20	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				100		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	54-2	54471.49	55363.53	54663.28	54832.76	0.86	ppb
Iron	56-2	54522.54	55428.97	54212.41	54721.31	1.16	ppb
Iron	57-2	54419.06	54320.59	54060.74	54266.80	0.34	ppb
Krypton	83-1						cps
Lead	206-1	2402.80	2408.55	2390.64	2400.66	0.38	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2397.03	2428.66	2399.44	2408.37	0.73	ppb
Lead	208-1	2381.02	2417.56	2382.37	2393.65	0.87	ppb
Lithium	6-1				107		%
Magnesium	24-2	47710.97	49551.98	47134.68	48132.54	2.62	ppb
Manganese	55-2	5654.66	5776.40	5648.44	5693.17	1.27	ppb
Molybdenum	94-1	2266.07	2252.27	2230.28	2249.54	0.80	ppb
Molybdenum	95-1	1751.03	1709.20	1690.26	1716.83	1.81	ppb
Molybdenum	96-1	1790.45	1762.74	1738.85	1764.01	1.46	ppb
Molybdenum	97-1	1697.96	1694.31	1692.91	1695.06	0.15	ppb
Molybdenum	98-1	1712.43	1694.49	1697.15	1701.36	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	456.11	460.29	454.71	457.04	0.64	ppb
Phosphorus	31-2	-5.22	-9.63	-11.83	-8.89		ppb
Potassium	39-2	22755.76	23417.20	22815.81	22996.26	1.59	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	482.01	483.93	477.87	481.27	0.64	ppb
Selenium	77-2	451.64	475.75	450.19	459.19	3.13	ppb
Selenium	78-2	465.19	456.72	463.58	461.83	0.97	ppb
Silicon	28-1	2046.51	2118.52	2069.61	2078.21	1.77	ppb
Silver	107-1	88.58	86.13	86.87	87.19	1.44	ppb
Silver	109-1	88.15	87.34	86.34	87.28	1.03	ppb
Sodium	23-2	46276.70	48689.49	47586.54	47517.58	2.54	ppb
Strontium	86-1	626.99	632.00	625.77	628.25	0.53	ppb
Strontium	88-1	614.28	625.76	618.06	619.37	0.94	ppb
Sulfur	34-1	9494.01	10010.05	9603.93	9702.66	2.80	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	478.22	479.19	473.96	477.12	0.58	ppb
Thallium	205-1	476.22	478.60	480.14	478.32	0.41	ppb
Tin	118-1	450.12	453.43	446.98	450.18	0.72	ppb
Titanium	47-1	5.66	7.24	7.53	6.81	14.73	ppb
Uranium	238-1	452.26	462.44	451.62	455.44	1.33	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	480.08	499.66	490.38	490.04	2.00	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				101		%
Zinc	66-2	4689.45	4766.40	4615.27	4690.37	1.61	ppb
Zirconium	90-1	472.08	467.68	464.38	468.05	0.83	ppb
Zirconium	91-1	491.50	477.50	468.93	479.31	2.38	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8662.31	8909.97	8717.86	8763.38	1.48	ppb
Antimony	121-1	482.75	493.91	510.97	495.88	2.87	ppb
Arsenic	75-2	4.13	4.20	4.35	4.23	2.65	ppb
Barium	135-1	2154.65	2213.85	2277.29	2215.27	2.77	ppb
Barium	137-1	2177.93	2228.50	2271.42	2225.95	2.10	ppb
Beryllium	9-1	452.77	468.07	475.10	465.31	2.45	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	448.65	458.07	477.34	461.36	3.17	ppb
Cadmium	106-1	481.29	491.05	510.98	494.44	3.06	ppb
Cadmium	111-1	485.04	489.55	500.66	491.75	1.63	ppb
Calcium	43-1	55335.29	57986.90	58925.03	57415.74	3.24	ppb
Calcium	44-1	55158.13	57273.41	57181.22	56537.58	2.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	485.89	482.12	471.32	479.78	1.58	ppb
Cobalt	59-2	486.83	496.27	479.98	487.69	1.68	ppb
Copper	63-2	4713.09	4774.72	4662.33	4716.71	1.19	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				106		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				96		%
Iron	54-2	53187.55	55347.98	54125.62	54220.38	2.00	ppb
Iron	56-2	54176.59	54590.45	53860.61	54209.22	0.68	ppb
Iron	57-2	54528.21	54857.06	54283.80	54556.36	0.53	ppb
Krypton	83-1						cps
Lead	206-1	2356.58	2444.48	2454.43	2418.50	2.23	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2346.90	2465.89	2450.31	2421.03	2.67	ppb
Lead	208-1	2331.74	2436.16	2416.88	2394.93	2.32	ppb
Lithium	6-1				107		%
Magnesium	24-2	48085.67	50017.79	48073.78	48725.75	2.30	ppb
Manganese	55-2	5613.65	5774.72	5683.60	5690.66	1.42	ppb
Molybdenum	94-1	2160.36	2272.72	2302.50	2245.20	3.34	ppb
Molybdenum	95-1	1645.48	1739.45	1756.90	1713.94	3.50	ppb
Molybdenum	96-1	1695.42	1809.01	1816.99	1773.81	3.83	ppb
Molybdenum	97-1	1680.56	1747.39	1760.11	1729.35	2.47	ppb
Molybdenum	98-1	1659.39	1725.65	1769.59	1718.21	3.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	454.98	463.20	453.93	457.37	1.11	ppb
Phosphorus	31-2	-15.64	-7.30	-7.27	-10.07		ppb
Potassium	39-2	22854.55	23440.68	22880.71	23058.65	1.44	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	457.65	487.12	495.42	480.06	4.13	ppb
Selenium	77-2	464.92	496.22	499.54	486.89	3.92	ppb
Selenium	78-2	463.41	479.71	465.66	469.59	1.88	ppb
Silicon	28-1	2297.41	2382.09	2495.84	2391.78	4.16	ppb
Silver	107-1	85.04	85.79	90.24	87.02	3.23	ppb
Silver	109-1	84.56	87.67	89.38	87.20	2.80	ppb
Sodium	23-2	47096.58	48725.79	47303.73	47708.70	1.86	ppb
Strontium	86-1	595.78	625.15	634.65	618.52	3.28	ppb
Strontium	88-1	600.74	625.22	622.61	616.19	2.18	ppb
Sulfur	34-1	9218.85	9754.87	9852.94	9608.89	3.55	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	468.08	486.37	488.40	480.95	2.33	ppb
Thallium	205-1	467.34	484.33	485.26	478.98	2.11	ppb
Tin	118-1	435.56	448.33	464.10	449.33	3.18	ppb
Titanium	47-1	16.20	17.23	13.64	15.69	11.78	ppb
Uranium	238-1	442.05	468.90	462.77	457.91	3.07	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	483.57	487.67	495.09	488.77	1.19	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				102		%
Zinc	66-2	4699.91	4747.25	4660.89	4702.68	0.92	ppb
Zirconium	90-1	451.81	473.51	484.10	469.81	3.50	ppb
Zirconium	91-1	449.53	478.36	482.45	470.11	3.82	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47679.13	51161.00	48680.25	49173.46	3.65	ppb
Antimony	121-1	472.72	487.10	498.90	486.24	2.70	ppb
Arsenic	75-2	479.18	527.99	526.72	511.30	5.44	ppb
Barium	135-1	2376.50	2486.66	2519.61	2460.92	3.05	ppb
Barium	137-1	2395.98	2473.15	2475.49	2448.21	1.85	ppb
Beryllium	9-1	461.88	484.72	466.64	471.08	2.56	ppb
Bismuth	209-1				90		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	471.59	493.39	503.03	489.33	3.29	ppb
Cadmium	106-1	475.28	491.81	505.13	490.74	3.05	ppb
Cadmium	111-1	466.97	484.10	494.06	481.71	2.84	ppb
Calcium	43-1	224347.74	233395.27	232822.40	230188.47	2.20	ppb
Calcium	44-1	221451.68	231021.39	229754.44	227409.17	2.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	500.36	528.53	508.53	512.47	2.83	ppb
Cobalt	59-2	480.79	525.04	500.67	502.17	4.41	ppb
Copper	63-2	4613.60	4917.47	4756.52	4762.53	3.19	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				93		%
Indium	115-1				97		%
Indium	115-2				85		%
Iron	54-2	118138.90	127775.61	124640.82	123518.44	3.98	ppb
Iron	56-2	117758.48	126462.41	122995.33	122405.40	3.58	ppb
Iron	57-2	118272.32	127914.11	122436.86	122874.43	3.94	ppb
Krypton	83-1						cps
Lead	206-1	2371.48	2550.58	2534.99	2485.68	3.99	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2393.26	2532.91	2491.68	2472.62	2.90	ppb
Lead	208-1	2379.83	2520.37	2487.20	2462.47	2.98	ppb
Lithium	6-1				100		%
Magnesium	24-2	234508.26	255830.15	248361.67	246233.36	4.39	ppb
Manganese	55-2	4759.39	5116.69	5051.42	4975.83	3.82	ppb
Molybdenum	94-1	4668.86	5011.86	4953.38	4878.04	3.76	ppb
Molybdenum	95-1	4634.26	4931.80	4963.41	4843.15	3.75	ppb
Molybdenum	96-1	4693.65	4839.81	4936.21	4823.22	2.53	ppb
Molybdenum	97-1	4637.51	4896.16	4947.24	4826.97	3.44	ppb
Molybdenum	98-1	4632.62	4932.24	4880.64	4815.17	3.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	447.35	479.54	462.92	463.27	3.47	ppb
Phosphorus	31-2	9546.45	10449.08	9995.12	9996.89	4.51	ppb
Potassium	39-2	116942.15	126240.84	123803.90	122328.97	3.94	ppb
Rhodium	103-1				91		%
Rhodium	103-2				87		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	451.33	474.45	476.09	467.29	2.96	ppb
Selenium	77-2	458.57	486.03	516.55	487.05	5.96	ppb
Selenium	78-2	457.75	523.57	487.02	489.44	6.74	ppb
Silicon	28-1	480.54	496.96	496.78	491.43	1.92	ppb
Silver	107-1	452.43	479.82	486.51	472.92	3.82	ppb
Silver	109-1	461.08	475.27	492.95	476.43	3.35	ppb
Sodium	23-2	236500.81	259078.17	252310.15	249296.38	4.65	ppb
Strontium	86-1	475.03	502.10	501.81	492.98	3.15	ppb
Strontium	88-1	467.23	487.71	487.54	480.83	2.45	ppb
Sulfur	34-1	9687.79	10359.12	9987.05	10011.32	3.36	ppb
Terbium	159-1				101		%
Terbium	159-2				93		%
Thallium	203-1	478.62	511.03	505.53	498.39	3.48	ppb
Thallium	205-1	470.32	519.41	506.59	498.77	5.10	ppb
Tin	118-1	479.05	488.05	495.31	487.47	1.67	ppb
Titanium	47-1	4673.81	4897.05	4865.86	4812.24	2.51	ppb
Uranium	238-1	477.81	497.98	492.38	489.39	2.13	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	496.68	538.33	510.36	515.12	4.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				94		%
Zinc	66-2	4603.28	4994.03	4818.12	4805.14	4.07	ppb
Zirconium	90-1	465.79	512.33	500.78	492.97	4.92	ppb
Zirconium	91-1	477.05	502.90	503.27	494.41	3.04	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.79	0.74	0.84	0.79	6.33	ppb
Antimony	121-1	0.06	0.06	0.06	0.06	4.69	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.03	0.03	0.04	0.03	19.08	ppb
Barium	137-1	0.03	0.02	0.03	0.03	9.35	ppb
Beryllium	9-1	0.20	0.22	0.20	0.21	4.45	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	-0.01	0.02	-0.01		ppb
Cadmium	106-1	-0.35	-0.61	0.38	-0.20		ppb
Cadmium	111-1	0.00	-0.04	0.05	0.00	919.44	ppb
Calcium	43-1	0.31	1.01	-0.11	0.40	139.11	ppb
Calcium	44-1	-0.63	1.02	0.16	0.18	452.86	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.02	0.00	-0.01		ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	6.04	ppb
Copper	63-2	0.04	0.02	-0.01	0.02	149.72	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				104		%
Holmium	165-2				101		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	3.35	3.05	4.30	3.57	18.25	ppb
Iron	56-2	3.50	3.48	3.43	3.47	1.12	ppb
Iron	57-2	3.22	2.73	2.35	2.77	15.78	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.18	0.19	0.18	3.84	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.22	0.21	0.21	7.34	ppb
Lead	208-1	0.19	0.20	0.19	0.19	3.57	ppb
Lithium	6-1				108		%
Magnesium	24-2	3.92	2.84	3.92	3.56	17.61	ppb
Manganese	55-2	0.25	0.21	0.22	0.23	9.48	ppb
Molybdenum	94-1	0.10	0.10	0.10	0.10	1.55	ppb
Molybdenum	95-1	0.07	0.07	0.07	0.07	5.82	ppb
Molybdenum	96-1	0.07	0.07	0.07	0.07	6.57	ppb
Molybdenum	97-1	0.07	0.07	0.07	0.07	3.29	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	1.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.40	0.44	0.43	0.42	5.47	ppb
Phosphorus	31-2	-33.21	-26.54	-24.61	-28.12		ppb
Potassium	39-2	49.70	40.37	40.50	43.52	12.29	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	-0.09	0.01	0.07	0.00		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.80	-0.43	-0.05	-0.43		ppb
Silicon	28-1	-5.65	-1.84	-4.26	-3.92		ppb
Silver	107-1	0.02	0.02	0.02	0.02	1.19	ppb
Silver	109-1	0.02	0.02	0.02	0.02	13.82	ppb
Sodium	23-2	45.49	38.38	38.50	40.79	9.98	ppb
Strontium	86-1	0.03	0.03	0.03	0.03	12.50	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	5.23	ppb
Sulfur	34-1	-840.17	-81.45	-514.76	-478.80		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.07	0.07	0.07	0.07	2.06	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	3.12	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	0.05	0.02	0.03	0.03	44.75	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	15.62	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	22.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				104		%
Zinc	66-2	0.26	0.20	0.36	0.27	29.36	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	27.93	ppb
Zirconium	91-1	0.01	0.02	0.02	0.02	34.67	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	21281.43	22422.03	19119.73	20941.06	8.01	ppb
Antimony	121-1	1.04	1.04	1.03	1.04	0.65	ppb
Arsenic	75-2	54.27	63.05	53.27	56.86	9.46	ppb
Barium	135-1	237.48	245.04	240.44	240.99	1.58	ppb
Barium	137-1	246.40	257.63	245.54	249.86	2.70	ppb
Beryllium	9-1	1.01	1.01	1.01	1.01	0.08	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.37	0.41	0.57	0.45	23.53	ppb
Cadmium	106-1	0.38	1.00	0.99	0.79	44.57	ppb
Cadmium	111-1	0.21	0.26	0.27	0.25	13.04	ppb
Calcium	43-1	5358.67	5478.66	5395.82	5411.05	1.14	ppb
Calcium	44-1	5424.14	5552.93	5389.28	5455.45	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.74	53.56	47.28	50.19	6.30	ppb
Cobalt	59-2	27.72	29.81	26.42	27.98	6.12	ppb
Copper	63-2	101.00	109.23	94.43	101.55	7.30	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				105		%
Holmium	165-2				101		%
Indium	115-1				105		%
Indium	115-2				98		%
Iron	54-2	58166.50	61905.71	54289.44	58120.55	6.55	ppb
Iron	56-2	58063.90	62626.06	54667.23	58452.40	6.83	ppb
Iron	57-2	58982.34	63641.58	55369.89	59331.27	6.99	ppb
Krypton	83-1						cps
Lead	206-1	24.91	25.46	25.58	25.32	1.41	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.48	24.28	23.59	23.79	1.82	ppb
Lead	208-1	23.99	24.65	24.39	24.34	1.36	ppb
Lithium	6-1				116		%
Magnesium	24-2	10548.83	11371.37	9613.55	10511.25	8.37	ppb
Manganese	55-2	469.67	504.82	444.48	472.99	6.41	ppb
Molybdenum	94-1	2.55	2.46	2.51	2.50	1.72	ppb
Molybdenum	95-1	1.16	1.15	1.12	1.14	1.92	ppb
Molybdenum	96-1	1.30	1.30	1.34	1.31	1.93	ppb
Molybdenum	97-1	1.11	1.09	1.12	1.11	1.38	ppb
Molybdenum	98-1	1.15	1.15	1.14	1.15	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	76.97	83.18	72.46	77.53	6.95	ppb
Phosphorus	31-2	621.81	628.06	533.99	594.62	8.85	ppb
Potassium	39-2	588.37	635.63	556.47	593.49	6.71	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				114		%
Scandium	45-2				109		%
Selenium	82-1	10.76	10.95	11.89	11.20	5.42	ppb
Selenium	77-2	42.53	34.61	33.39	36.84	13.47	ppb
Selenium	78-2	15.04	19.31	16.06	16.80	13.28	ppb
Silicon	28-1	6420.01	6471.41	6400.82	6430.75	0.57	ppb
Silver	107-1	0.35	0.36	0.35	0.35	1.52	ppb
Silver	109-1	0.34	0.36	0.35	0.35	3.32	ppb
Sodium	23-2	104.29	125.13	100.91	110.11	11.91	ppb
Strontium	86-1	51.00	51.22	51.31	51.18	0.31	ppb
Strontium	88-1	53.70	53.55	53.40	53.55	0.29	ppb
Sulfur	34-1	-1771.09	-2032.07	-2235.89	-2013.02		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.40	0.45	0.47	0.44	8.86	ppb
Thallium	205-1	0.42	0.47	0.49	0.46	8.31	ppb
Tin	118-1	0.34	0.36	0.37	0.36	4.55	ppb
Titanium	47-1	20.50	20.61	20.65	20.59	0.38	ppb
Uranium	238-1	0.43	0.44	0.46	0.44	2.51	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	62.21	66.69	58.27	62.39	6.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				112		%
Yttrium	89-2				106		%
Zinc	66-2	131.40	138.70	122.80	130.97	6.08	ppb
Zirconium	90-1	0.87	0.85	0.85	0.86	1.02	ppb
Zirconium	91-1	0.84	0.87	0.88	0.86	2.35	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.85	6.64	5.75	6.42	9.10	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	2.17	ppb
Arsenic	75-2	0.18	0.25	0.16	0.20	25.01	ppb
Barium	135-1	17.05	17.00	16.71	16.92	1.07	ppb
Barium	137-1	16.79	16.87	17.01	16.89	0.65	ppb
Beryllium	9-1	0.05	0.06	0.05	0.05	6.74	ppb
Bismuth	209-1				88		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.04	0.08	0.05	53.03	ppb
Cadmium	106-1	-1.28	0.17	0.25	-0.29		ppb
Cadmium	111-1	-0.08	0.02	0.03	-0.01		ppb
Calcium	43-1	434024.78	428240.18	430796.71	431020.55	0.67	ppb
Calcium	44-1	414506.75	425121.05	416919.32	418849.04	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.04	0.12	0.08	53.89	ppb
Cobalt	59-2	0.06	0.06	0.06	0.06	3.63	ppb
Copper	63-2	0.19	0.19	0.21	0.20	6.99	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				98		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				88		%
Iron	54-2	1310.05	1309.67	1325.39	1315.04	0.68	ppb
Iron	56-2	1329.49	1340.74	1360.69	1343.64	1.18	ppb
Iron	57-2	1307.95	1326.96	1328.78	1321.23	0.87	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.16	0.15	0.17	15.84	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.18	0.16	0.18	8.25	ppb
Lead	208-1	0.20	0.17	0.16	0.17	11.36	ppb
Lithium	6-1				100		%
Magnesium	24-2	143401.25	141307.28	144264.50	142991.01	1.06	ppb
Manganese	55-2	50.10	49.39	49.92	49.80	0.74	ppb
Molybdenum	94-1	0.71	0.71	0.71	0.71	0.35	ppb
Molybdenum	95-1	0.72	0.75	0.79	0.75	4.46	ppb
Molybdenum	96-1	0.70	0.72	0.71	0.71	1.77	ppb
Molybdenum	97-1	0.73	0.75	0.73	0.74	1.12	ppb
Molybdenum	98-1	0.71	0.72	0.72	0.72	1.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.42	0.54	0.54	0.50	14.65	ppb
Phosphorus	31-2	-13.20	0.43	-18.02	-10.27		ppb
Potassium	39-2	4614.68	4627.55	4707.48	4649.90	1.08	ppb
Rhodium	103-1				88		%
Rhodium	103-2				90		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	11.34	11.22	11.56	11.37	1.50	ppb
Selenium	77-2	7.98	12.33	12.35	10.89	23.08	ppb
Selenium	78-2	10.38	12.48	11.65	11.50	9.18	ppb
Silicon	28-1	8358.12	8533.71	8410.78	8434.20	1.07	ppb
Silver	107-1	0.02	0.03	0.03	0.03	14.59	ppb
Silver	109-1	0.02	0.02	0.02	0.02	6.81	ppb
Sodium	23-2	180455.22	182544.80	183111.00	182037.01	0.77	ppb
Strontium	86-1	14171.21	13702.65	14098.87	13990.91	1.80	ppb
Strontium	88-1	14135.91	13796.54	14123.75	14018.73	1.37	ppb
Sulfur	34-1	461949.98	459920.69	459549.36	460473.34	0.28	ppb
Terbium	159-1				98		%
Terbium	159-2				95		%
Thallium	203-1	0.08	0.07	0.08	0.08	5.55	ppb
Thallium	205-1	0.08	0.07	0.07	0.07	4.94	ppb
Tin	118-1	0.54	0.55	0.79	0.63	22.09	ppb
Titanium	47-1	0.78	0.74	0.76	0.76	2.30	ppb
Uranium	238-1	0.25	0.26	0.25	0.25	1.69	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.02	0.04	0.03	30.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				95		%
Zinc	66-2	0.84	0.83	0.98	0.89	9.59	ppb
Zirconium	90-1	0.07	0.06	0.05	0.06	10.65	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	5.59	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	576.69	567.65	579.22	574.52	1.06	ppb
Antimony	121-1	4.21	4.30	4.42	4.31	2.54	ppb
Arsenic	75-2	2.47	2.53	2.06	2.35	10.93	ppb
Barium	135-1	39.64	41.14	41.52	40.77	2.44	ppb
Barium	137-1	39.97	41.60	41.49	41.02	2.21	ppb
Beryllium	9-1	0.04	0.06	0.05	0.05	13.67	ppb
Bismuth	209-1				98		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.60	0.52	0.59	0.57	7.93	ppb
Cadmium	106-1	0.85	1.17	0.15	0.72	71.94	ppb
Cadmium	111-1	0.10	0.13	0.05	0.09	44.28	ppb
Calcium	43-1	126048.65	129053.23	129831.40	128311.09	1.56	ppb
Calcium	44-1	124720.93	127437.09	127249.61	126469.21	1.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.21	0.24	0.28	0.25	13.77	ppb
Cobalt	59-2	0.13	0.14	0.15	0.14	6.78	ppb
Copper	63-2	1.16	1.12	1.12	1.14	2.18	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				106		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	37.80	38.20	37.84	37.95	0.57	ppb
Iron	56-2	39.04	38.54	38.66	38.74	0.67	ppb
Iron	57-2	42.25	40.66	43.89	42.27	3.82	ppb
Krypton	83-1						cps
Lead	206-1	0.50	0.48	0.51	0.50	3.12	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.47	0.49	0.50	0.49	2.47	ppb
Lead	208-1	0.49	0.49	0.51	0.49	2.16	ppb
Lithium	6-1				110		%
Magnesium	24-2	30.21	28.93	27.32	28.82	5.03	ppb
Manganese	55-2	3.14	3.12	3.00	3.08	2.38	ppb
Molybdenum	94-1	34.23	34.37	34.73	34.44	0.74	ppb
Molybdenum	95-1	40.62	41.65	41.80	41.36	1.56	ppb
Molybdenum	96-1	39.23	40.46	40.59	40.09	1.86	ppb
Molybdenum	97-1	41.60	42.14	41.94	41.89	0.65	ppb
Molybdenum	98-1	40.28	41.45	41.32	41.02	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	158.13	157.60	161.10	158.94	1.18	ppb
Phosphorus	31-2	389.77	379.77	347.07	372.20	6.00	ppb
Potassium	39-2	58632.25	59264.23	60088.96	59328.48	1.23	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				104		%
Selenium	82-1	11.63	11.29	11.47	11.46	1.50	ppb
Selenium	77-2	4.82	8.97	10.23	8.00	35.33	ppb
Selenium	78-2	11.00	13.02	13.25	12.42	9.98	ppb
Silicon	28-1	2211.06	2251.04	2259.19	2240.43	1.15	ppb
Silver	107-1	0.02	0.02	0.02	0.02	7.13	ppb
Silver	109-1	0.01	0.01	0.01	0.01	6.45	ppb
Sodium	23-2	31101.13	31227.35	30673.57	31000.68	0.94	ppb
Strontium	86-1	1252.08	1280.59	1290.57	1274.41	1.57	ppb
Strontium	88-1	1249.41	1294.49	1269.22	1271.04	1.78	ppb
Sulfur	34-1	11687.89	12002.61	11772.38	11820.96	1.38	ppb
Terbium	159-1				105		%
Terbium	159-2				101		%
Thallium	203-1	0.05	0.05	0.04	0.05	1.65	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	2.61	ppb
Tin	118-1	0.60	0.63	0.61	0.61	2.89	ppb
Titanium	47-1	0.64	0.69	0.71	0.68	5.24	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.59	2.70	2.61	2.63	2.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				101		%
Zinc	66-2	3.37	3.33	3.66	3.46	5.27	ppb
Zirconium	90-1	0.03	0.03	0.02	0.03	5.36	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	10.80	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.18	0.14	0.78	0.70	75.08	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	10.44	ppb
Arsenic	75-2	-0.01	-0.02	-0.01	-0.01		ppb
Barium	135-1	0.01	0.00	0.01	0.01	48.91	ppb
Barium	137-1	0.01	0.00	0.01	0.00	58.52	ppb
Beryllium	9-1	0.05	0.05	0.04	0.05	7.95	ppb
Bismuth	209-1				105		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.03	0.01	0.02	44.97	ppb
Cadmium	106-1	0.96	1.10	1.54	1.20	24.97	ppb
Cadmium	111-1	0.07	0.09	0.12	0.09	28.16	ppb
Calcium	43-1	4.54	5.27	4.22	4.68	11.52	ppb
Calcium	44-1	6.39	4.39	3.77	4.85	28.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.21	-0.21	-0.22	-0.21		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	73.89	ppb
Copper	63-2	-0.05	-0.07	-0.01	-0.04		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				108		%
Holmium	165-2				102		%
Indium	115-1				109		%
Indium	115-2				100		%
Iron	54-2	0.62	0.24	0.20	0.36	65.26	ppb
Iron	56-2	0.47	0.62	0.72	0.61	20.62	ppb
Iron	57-2	0.13	-0.14	0.28	0.09	232.73	ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.04	0.04	0.05	15.28	ppb

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.05	0.04	0.05	12.02	ppb
Lead	208-1	0.05	0.05	0.05	0.05	5.29	ppb
Lithium	6-1				110		%
Magnesium	24-2	-2.51	-1.00	-0.62	-1.38		ppb
Manganese	55-2	0.11	0.11	0.09	0.10	12.19	ppb
Molybdenum	94-1	0.00	0.02	0.01	0.01	98.11	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	32.57	ppb
Molybdenum	96-1	0.01	0.01	0.01	0.01	26.10	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	15.80	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	46.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.22	0.24	0.25	0.24	7.85	ppb
Phosphorus	31-2	-33.85	-30.41	-25.60	-29.95		ppb
Potassium	39-2	57.37	60.41	60.74	59.51	3.12	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				104		%
Selenium	82-1	0.08	-0.08	0.02	0.01	1310.35	ppb
Selenium	77-2	0.00	0.67	0.00	0.22	173.21	ppb
Selenium	78-2	-0.43	-0.81	-0.20	-0.48		ppb
Silicon	28-1	-3.59	-3.48	-4.34	-3.80		ppb
Silver	107-1	0.01	0.01	0.01	0.01	15.35	ppb
Silver	109-1	0.00	0.00	0.00	0.00	15.28	ppb
Sodium	23-2	22.34	24.20	29.40	25.31	14.44	ppb
Strontium	86-1	0.12	0.08	0.07	0.09	32.29	ppb
Strontium	88-1	0.11	0.09	0.07	0.09	23.81	ppb
Sulfur	34-1	1283.68	1536.72	1419.28	1413.22	8.96	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.02	0.03	0.03	8.59	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	2.21	ppb
Tin	118-1	-0.03	-0.01	-0.03	-0.02		ppb
Titanium	47-1	0.01	0.00	-0.01	0.00	735.57	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	74.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				102		%
Zinc	66-2	0.44	0.37	0.40	0.41	8.05	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	612.19	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	93.16	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.62	40.61	38.96	40.40	3.33	ppb
Antimony	121-1	4.17	4.15	4.32	4.21	2.21	ppb
Arsenic	75-2	1.87	2.05	2.48	2.13	14.70	ppb
Barium	135-1	20.51	20.40	21.11	20.67	1.87	ppb
Barium	137-1	20.82	20.66	21.21	20.90	1.36	ppb
Beryllium	9-1	2.06	2.05	2.07	2.06	0.48	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	2.12	2.08	2.40	2.20	8.13	ppb
Cadmium	106-1	2.76	2.87	3.45	3.03	12.16	ppb
Cadmium	111-1	2.20	2.18	2.23	2.20	1.15	ppb
Calcium	43-1	1010.39	1006.66	1019.89	1012.31	0.67	ppb
Calcium	44-1	991.96	987.96	1003.77	994.56	0.83	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.88	3.80	3.85	3.85	1.07	ppb
Cobalt	59-2	2.10	2.17	2.17	2.15	1.94	ppb
Copper	63-2	4.58	4.54	4.65	4.59	1.16	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				101		%
Indium	115-1				107		%
Indium	115-2				98		%
Iron	54-2	417.04	408.94	410.79	412.26	1.03	ppb
Iron	56-2	414.75	415.38	416.16	415.43	0.17	ppb
Iron	57-2	416.36	418.66	413.66	416.23	0.60	ppb
Krypton	83-1						cps
Lead	206-1	2.00	1.96	2.04	2.00	2.04	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.03	2.03	2.06	2.04	0.91	ppb
Lead	208-1	2.01	2.02	2.04	2.03	0.87	ppb
Lithium	6-1				111		%
Magnesium	24-2	994.77	1007.31	998.29	1000.13	0.65	ppb
Manganese	55-2	2.27	2.34	2.11	2.24	5.07	ppb
Molybdenum	94-1	11.81	11.92	11.84	11.86	0.49	ppb
Molybdenum	95-1	9.95	10.11	9.90	9.98	1.14	ppb
Molybdenum	96-1	10.11	10.17	10.19	10.16	0.42	ppb
Molybdenum	97-1	9.89	10.21	9.93	10.01	1.73	ppb
Molybdenum	98-1	9.87	9.94	9.73	9.85	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.40	2.49	2.34	2.41	3.12	ppb
Phosphorus	31-2	20.62	18.45	22.89	20.65	10.74	ppb
Potassium	39-2	1023.00	1015.67	1027.87	1022.18	0.60	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				106		%
Scandium	45-2				103		%
Selenium	82-1	10.75	11.07	10.89	10.90	1.45	ppb
Selenium	77-2	8.33	4.82	6.91	6.69	26.43	ppb
Selenium	78-2	10.49	9.19	8.03	9.24	13.30	ppb
Silicon	28-1	13.43	18.76	19.55	17.25	19.30	ppb
Silver	107-1	2.03	2.04	2.11	2.06	2.23	ppb
Silver	109-1	2.05	2.07	2.16	2.09	2.58	ppb
Sodium	23-2	1071.61	1061.11	1060.16	1064.29	0.60	ppb
Strontium	86-1	2.03	2.03	2.04	2.03	0.07	ppb
Strontium	88-1	2.05	2.05	2.08	2.06	0.81	ppb
Sulfur	34-1	1637.96	1288.16	1352.95	1426.36	13.05	ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	2.00	2.03	2.06	2.03	1.59	ppb
Thallium	205-1	2.03	2.03	2.08	2.05	1.51	ppb
Tin	118-1	10.42	10.57	10.69	10.56	1.26	ppb
Titanium	47-1	2.52	2.51	2.57	2.53	1.23	ppb
Uranium	238-1	1.85	1.87	1.90	1.87	1.32	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.56	10.44	10.44	10.48	0.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				100		%
Zinc	66-2	10.89	10.65	11.13	10.89	2.19	ppb
Zirconium	90-1	1.95	2.01	2.01	1.99	1.68	ppb
Zirconium	91-1	1.97	2.05	2.00	2.00	2.00	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.82	2.09	1.65	1.85	11.94	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	2.74	ppb
Arsenic	75-2	0.02	-0.02	-0.02	-0.01		ppb
Barium	135-1	0.03	0.03	0.04	0.03	31.19	ppb
Barium	137-1	0.03	0.03	0.03	0.03	14.39	ppb
Beryllium	9-1	0.04	0.04	0.03	0.04	15.95	ppb
Bismuth	209-1				105		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	-0.03	0.00	0.01	0.00		ppb
Cadmium	106-1	0.96	0.72	1.12	0.93	21.77	ppb
Cadmium	111-1	0.08	0.06	0.09	0.08	20.83	ppb
Calcium	43-1	3.10	2.46	2.76	2.78	11.48	ppb
Calcium	44-1	1.74	2.54	2.98	2.42	25.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.06	0.09	0.08	21.03	ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	104.83	ppb
Copper	63-2	-0.04	-0.02	-0.07	-0.04		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				109		%
Holmium	165-2				98		%
Indium	115-1				109		%
Indium	115-2				95		%
Iron	54-2	1.79	1.90	2.16	1.95	9.48	ppb
Iron	56-2	2.00	2.01	2.12	2.04	3.18	ppb
Iron	57-2	1.15	1.14	1.79	1.36	27.31	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.09	0.10	0.10	10.23	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.09	0.10	7.77	ppb
Lead	208-1	0.11	0.10	0.10	0.10	7.21	ppb
Lithium	6-1				112		%
Magnesium	24-2	0.52	0.23	1.49	0.75	88.18	ppb
Manganese	55-2	0.40	0.37	0.47	0.42	13.17	ppb
Molybdenum	94-1	0.01	0.02	0.02	0.02	55.56	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	106.55	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	69.19	ppb
Molybdenum	97-1	0.01	0.00	0.00	0.00	80.25	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.18	0.26	0.22	0.22	17.70	ppb
Phosphorus	31-2	-34.20	-20.84	-32.75	-29.26		ppb
Potassium	39-2	31.06	31.78	37.07	33.30	9.86	ppb
Rhodium	103-1				106		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				100		%
Selenium	82-1	-0.05	-0.31	-0.42	-0.26		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.61	-1.01	-0.80	-0.80		ppb
Silicon	28-1	7.07	8.36	9.51	8.31	14.68	ppb
Silver	107-1	0.01	0.01	0.01	0.01	5.01	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.14	ppb
Sodium	23-2	40.78	43.25	46.13	43.39	6.18	ppb
Strontium	86-1	0.04	0.06	0.04	0.05	22.49	ppb
Strontium	88-1	0.07	0.08	0.07	0.07	5.32	ppb
Sulfur	34-1	1106.17	814.25	1194.03	1038.15	19.15	ppb
Terbium	159-1				107		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.02	0.02	0.02	16.94	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	12.66	ppb
Tin	118-1	0.08	0.05	0.07	0.07	19.34	ppb
Titanium	47-1	0.03	0.03	-0.01	0.02	117.30	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	151.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				99		%
Zinc	66-2	-0.09	-0.11	-0.09	-0.10		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	82.01	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	36.23	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.53	1.37	0.93	0.95	44.40	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	46.90	ppb
Arsenic	75-2	0.00	-0.01	0.00	0.00		ppb
Barium	135-1	0.02	0.02	0.03	0.02	15.44	ppb
Barium	137-1	0.01	0.02	0.02	0.02	31.14	ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	6.79	ppb
Bismuth	209-1				107		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	0.03	0.06	0.02	159.89	ppb
Cadmium	106-1	0.52	0.91	1.02	0.81	32.54	ppb
Cadmium	111-1	0.04	0.07	0.08	0.06	31.00	ppb
Calcium	43-1	3.69	1.33	2.52	2.51	46.99	ppb
Calcium	44-1	0.99	2.33	1.38	1.57	43.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.02	-0.01	-0.01		ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.07	-0.04	-0.10	-0.07		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				109		%
Holmium	165-2				101		%
Indium	115-1				110		%
Indium	115-2				98		%
Iron	54-2	3.89	4.02	3.03	3.65	14.79	ppb
Iron	56-2	3.85	3.99	4.21	4.02	4.56	ppb
Iron	57-2	4.69	3.57	3.69	3.98	15.38	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.04	0.04	7.27	ppb

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.03	0.04	0.04	20.45	ppb
Lead	208-1	0.05	0.04	0.04	0.04	10.05	ppb
Lithium	6-1				112		%
Magnesium	24-2	1.57	1.02	1.71	1.43	25.15	ppb
Manganese	55-2	1.72	1.76	1.77	1.75	1.60	ppb
Molybdenum	94-1	0.02	0.01	0.02	0.02	12.96	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	53.99	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	13.87	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.26	0.33	0.28	13.96	ppb
Phosphorus	31-2	-30.76	-29.11	-29.99	-29.95		ppb
Potassium	39-2	33.72	33.63	35.00	34.12	2.24	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				109		%
Scandium	45-2				102		%
Selenium	82-1	-0.10	-0.01	-0.28	-0.13		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.41	-0.42	0.17	-0.22		ppb
Silicon	28-1	-7.71	-5.83	-5.06	-6.20		ppb
Silver	107-1	0.00	0.00	0.01	0.00	26.77	ppb
Silver	109-1	0.00	0.00	0.00	0.00	45.36	ppb
Sodium	23-2	126.07	122.95	122.92	123.98	1.46	ppb
Strontium	86-1	-0.02	0.00	0.01	0.00		ppb
Strontium	88-1	0.02	0.02	0.02	0.02	3.21	ppb
Sulfur	34-1	734.94	1160.04	1086.55	993.84	22.86	ppb
Terbium	159-1				109		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.01	0.02	32.86	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	11.78	ppb
Tin	118-1	0.02	0.02	0.03	0.02	40.59	ppb
Titanium	47-1	0.02	0.05	-0.01	0.02	126.91	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.01	93.08	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				102		%
Zinc	66-2	-0.11	-0.08	-0.10	-0.10		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	206.85	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	141.88	ppb

1234

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	47692.29	46896.15	46547.14	47045.19	1.25	ppb
Antimony	121-1	486.31	496.98	497.53	493.61	1.28	ppb
Arsenic	75-2	483.65	492.50	498.22	491.46	1.49	ppb
Barium	135-1	2449.77	2543.45	2534.10	2509.10	2.06	ppb
Barium	137-1	2433.76	2528.53	2545.61	2502.63	2.41	ppb
Beryllium	9-1	468.23	472.61	488.91	476.59	2.29	ppb
Bismuth	209-1				89		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	489.60	498.12	499.44	495.72	1.08	ppb
Cadmium	106-1	492.84	501.05	504.66	499.51	1.21	ppb
Cadmium	111-1	478.65	495.52	493.46	489.21	1.88	ppb
Calcium	43-1	235057.50	238034.54	238624.41	237238.82	0.81	ppb
Calcium	44-1	230760.18	237804.37	231870.01	233478.19	1.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	483.63	483.84	478.47	481.98	0.63	ppb
Cobalt	59-2	481.82	482.02	485.46	483.10	0.42	ppb
Copper	63-2	4584.23	4608.62	4577.38	4590.08	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				100		%
Holmium	165-2				96		%
Indium	115-1				95		%
Indium	115-2				87		%
Iron	54-2	118169.52	118412.86	115918.60	117500.33	1.17	ppb
Iron	56-2	116362.43	118689.48	115849.12	116967.01	1.29	ppb
Iron	57-2	118010.58	118481.86	118283.66	118258.70	0.20	ppb
Krypton	83-1						cps
Lead	206-1	2469.70	2526.04	2486.17	2493.97	1.16	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2455.65	2525.75	2462.51	2481.30	1.56	ppb
Lead	208-1	2462.08	2512.58	2470.47	2481.71	1.09	ppb
Lithium	6-1				99		%
Magnesium	24-2	237784.84	241314.66	234030.09	237709.87	1.53	ppb
Manganese	55-2	4691.02	4821.91	4692.21	4735.05	1.59	ppb
Molybdenum	94-1	4885.34	5041.37	4904.86	4943.86	1.72	ppb
Molybdenum	95-1	4963.25	4946.64	4870.62	4926.84	1.00	ppb
Molybdenum	96-1	4923.29	4981.00	4979.26	4961.18	0.66	ppb
Molybdenum	97-1	4887.65	4902.12	5017.18	4935.65	1.44	ppb
Molybdenum	98-1	4891.31	4956.56	4978.60	4942.15	0.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	505.99	508.41	507.78	507.39	0.25	ppb
Phosphorus	31-2	9582.27	9588.02	9597.35	9589.21	0.08	ppb
Potassium	39-2	118121.08	118002.49	116147.15	117423.57	0.94	ppb
Rhodium	103-1				89		%
Rhodium	103-2				89		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	486.00	489.11	482.73	485.94	0.66	ppb
Selenium	77-2	477.78	497.95	458.62	478.12	4.11	ppb
Selenium	78-2	456.50	480.75	481.46	472.90	3.01	ppb
Silicon	28-1	503.89	500.16	491.60	498.55	1.26	ppb
Silver	107-1	472.32	484.51	476.00	477.61	1.31	ppb
Silver	109-1	474.69	480.73	475.67	477.03	0.68	ppb
Sodium	23-2	241828.52	240768.61	238466.11	240354.41	0.72	ppb
Strontium	86-1	492.77	504.17	506.89	501.28	1.50	ppb
Strontium	88-1	488.54	500.28	505.68	498.17	1.76	ppb
Sulfur	34-1	10220.70	10129.13	9828.19	10059.34	2.04	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	500.40	506.76	493.70	500.29	1.31	ppb
Thallium	205-1	500.37	512.86	507.61	506.94	1.24	ppb
Tin	118-1	486.98	495.72	499.94	494.21	1.34	ppb
Titanium	47-1	4905.58	4924.69	4964.22	4931.49	0.61	ppb
Uranium	238-1	498.36	503.88	495.06	499.10	0.89	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	485.28	494.76	488.35	489.46	0.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				95		%
Zinc	66-2	4587.64	4636.03	4610.67	4611.45	0.52	ppb
Zirconium	90-1	495.60	511.08	492.19	499.62	2.01	ppb
Zirconium	91-1	496.28	511.27	495.85	501.14	1.75	ppb

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.03	0.99	1.17	1.06	8.97	ppb
Antimony	121-1	0.16	0.15	0.13	0.15	12.36	ppb
Arsenic	75-2	0.00	0.00	0.03	0.01	172.26	ppb
Barium	135-1	0.13	0.10	0.08	0.10	26.33	ppb
Barium	137-1	0.13	0.10	0.08	0.10	23.06	ppb
Beryllium	9-1	0.23	0.21	0.19	0.21	8.89	ppb
Bismuth	209-1				104		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.09	0.02	0.07	67.31	ppb
Cadmium	106-1	-0.32	-0.25	0.00	-0.19		ppb
Cadmium	111-1	0.00	0.01	0.03	0.01	117.13	ppb
Calcium	43-1	9.30	6.28	5.23	6.94	30.42	ppb
Calcium	44-1	7.32	5.08	2.93	5.11	42.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.21	-0.20	-0.20	-0.20		ppb
Cobalt	59-2	0.01	0.02	0.01	0.01	31.98	ppb
Copper	63-2	-0.01	0.02	-0.02	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				99		%
Indium	115-1				108		%
Indium	115-2				97		%
Iron	54-2	2.60	3.14	3.52	3.09	15.07	ppb
Iron	56-2	2.96	3.30	3.26	3.17	5.91	ppb
Iron	57-2	3.26	2.37	2.39	2.67	18.90	ppb
Krypton	83-1						cps
Lead	206-1	0.33	0.29	0.24	0.29	15.55	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.33	0.30	0.24	0.29	16.30	ppb
Lead	208-1	0.33	0.29	0.24	0.29	15.05	ppb
Lithium	6-1				110		%
Magnesium	24-2	-0.23	0.50	-0.12	0.05	837.11	ppb
Manganese	55-2	0.24	0.19	0.28	0.24	17.68	ppb
Molybdenum	94-1	0.33	0.28	0.22	0.28	20.04	ppb
Molybdenum	95-1	0.31	0.24	0.19	0.25	23.93	ppb
Molybdenum	96-1	0.30	0.25	0.18	0.24	25.12	ppb
Molybdenum	97-1	0.32	0.24	0.21	0.25	22.08	ppb
Molybdenum	98-1	0.29	0.26	0.19	0.25	21.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.24	0.30	0.27	0.27	12.89	ppb
Phosphorus	31-2	-34.95	-32.97	-26.12	-31.35		ppb
Potassium	39-2	45.76	44.02	36.91	42.23	11.11	ppb
Rhodium	103-1				107		%
Rhodium	103-2				102		%
Scandium	45-1				109		%
Scandium	45-2				102		%
Selenium	82-1	-0.17	0.47	0.04	0.11	290.03	ppb
Selenium	77-2	0.69	0.00	0.00	0.23	173.21	ppb
Selenium	78-2	-0.40	-0.80	-0.43	-0.54		ppb
Silicon	28-1	-5.91	-5.48	-5.32	-5.57		ppb
Silver	107-1	0.08	0.07	0.06	0.07	17.14	ppb
Silver	109-1	0.07	0.06	0.05	0.06	16.03	ppb
Sodium	23-2	48.93	48.23	39.34	45.50	11.74	ppb
Strontium	86-1	0.02	0.02	0.00	0.01	76.90	ppb
Strontium	88-1	0.03	0.03	0.02	0.03	16.57	ppb
Sulfur	34-1	-969.37	-786.61	-758.18	-838.05		ppb
Terbium	159-1				106		%
Terbium	159-2				99		%
Thallium	203-1	0.07	0.06	0.05	0.06	20.36	ppb
Thallium	205-1	0.07	0.06	0.05	0.06	18.07	ppb
Tin	118-1	0.02	0.02	0.01	0.01	26.08	ppb
Titanium	47-1	0.22	0.21	0.12	0.18	32.01	ppb
Uranium	238-1	0.02	0.02	0.01	0.02	32.71	ppb

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	24.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				101		%
Zinc	66-2	0.53	0.56	0.54	0.54	2.84	ppb
Zirconium	90-1	0.04	0.04	0.02	0.03	28.60	ppb
Zirconium	91-1	0.04	0.05	0.03	0.04	23.75	ppb

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	93	57	78	24.37	cps
Antimony	121-1	47	53	43	48	10.66	cps
Arsenic	75-2	7	3	10	7	50.03	cps
Barium	135-1	90	73	40	68	37.56	cps
Barium	137-1	113	97	120	110	10.92	cps
Beryllium	9-1	322	284	292	300	6.78	cps
Bismuth	209-1	12687442	12408795	12017571	12371269	2.72	cps
Bismuth	209-2	5590091	5543926	5472177	5535398	1.07	cps
Bromine	81-1	4117	4351	4317	4262	2.96	cps
Cadmium	108-1	30	17	7	18	65.83	cps
Cadmium	106-1	8203	8112	7992	8102	1.30	cps
Cadmium	111-1	5731	5690	5607	5676	1.12	cps
Calcium	43-1	740	673	657	690	6.39	cps
Calcium	44-1	34825	33716	34131	34224	1.64	cps
Carbon	12-1	6523192	6438822	6514982	6492332	0.72	cps
Carbon	12-2	42755	42511	43257	42841	0.89	cps
Chlorine	35-1	167429	168582	167665	167892	0.36	cps
Chlorine	35-2	740	697	633	690	7.78	cps
Chromium	52-2	1620	1657	1753	1677	4.11	cps
Cobalt	59-2	103	103	77	94	16.30	cps
Copper	63-2	3757	3697	3954	3803	3.53	cps
Dysprosium	156-1	20	17	17	18	10.81	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	137	70	107	104	31.97	cps
Erbium	164-2	30	43	17	30	44.43	cps
Gadolinium	160-1	140	137	123	133	6.61	cps
Gadolinium	160-2	33	23	13	23	42.86	cps
Holmium	165-1	19576447	18928803	18995399	19166883	1.86	cps
Holmium	165-2	7320354	7402202	7322349	7348301	0.64	cps
Indium	115-1	16078425	15651327	15531985	15753912	1.82	cps
Indium	115-2	1726312	1761309	1743754	1743792	1.00	cps
Iron	54-2	493	553	600	549	9.74	cps
Iron	56-2	6261	6838	7058	6719	6.13	cps
Iron	57-2	207	170	207	194	10.89	cps
Krypton	83-1	320	243	307	290	14.12	cps
Lead	206-1	1403	1283	1350	1346	4.47	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1180	1090	1107	1126	4.25	cps
Lead	208-1	5230	5074	5074	5126	1.76	cps
Lithium	6-1	9190100	9041663	8946823	9059529	1.35	cps
Magnesium	24-2	4534	4687	4731	4651	2.22	cps
Manganese	55-2	140	143	140	141	1.37	cps
Molybdenum	94-1	380	400	343	374	7.68	cps
Molybdenum	95-1	143	140	187	157	16.62	cps
Molybdenum	96-1	233	193	213	213	9.37	cps
Molybdenum	97-1	90	100	103	98	7.10	cps
Molybdenum	98-1	260	190	243	231	15.82	cps
Neodymium	150-1	13	10	10	11	17.30	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	720	750	677	716	5.15	cps
Phosphorus	31-2	123	83	123	110	21.00	cps
Potassium	39-2	13073	13520	13043	13212	2.02	cps
Rhodium	103-1	15724710	15158605	14868218	15250511	2.86	cps
Rhodium	103-2	6235829	6236249	6222405	6231494	0.13	cps
Scandium	45-1	11687784	11382066	11197510	11422453	2.17	cps
Scandium	45-2	234216	236027	232111	234118	0.84	cps
Selenium	82-1	27	20	13	20	33.32	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	30	10	17	69.28	cps
Silicon	28-1	650213	648416	649585	649405	0.14	cps
Silver	107-1	163	213	213	197	14.68	cps
Silver	109-1	107	90	90	96	10.07	cps
Sodium	23-2	55756	55910	55615	55760	0.26	cps
Strontium	86-1	420	513	577	503	15.66	cps
Strontium	88-1	330	380	373	361	7.52	cps
Sulfur	34-1	817571	819783	821251	819535	0.23	cps
Terbium	159-1	20399134	19494686	19538821	19810880	2.57	cps
Terbium	159-2	7125790	7085516	7032339	7081215	0.66	cps
Thallium	203-1	263	233	197	231	14.45	cps
Thallium	205-1	537	470	483	497	7.10	cps
Tin	118-1	2034	1957	2254	2081	7.41	cps
Titanium	47-1	253	250	237	247	3.58	cps
Uranium	238-1	97	93	130	107	19.01	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:08:54	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	10	3	7	50.03	cps
Ytterbium	172-1	80	140	77	99	36.04	cps
Ytterbium	172-2	23	53	63	47	44.61	cps
Ytterbium	176-1	2210	1900	1980	2030	7.93	cps
Ytterbium	176-2	413	460	497	457	9.15	cps
Yttrium	89-1	28625784	27692795	27314580	27877720	2.42	cps
Yttrium	89-2	2207354	2157535	2118957	2161282	2.05	cps
Zinc	66-2	340	327	343	337	2.62	cps
Zirconium	90-1	890	1033	877	933	9.31	cps
Zirconium	91-1	147	150	170	156	8.11	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1693	1720	1753	1722	1.75	cps
Antimony	121-1	35296	36468	35904	35889	1.63	cps
Arsenic	75-2	380	467	383	410	11.98	cps
Barium	135-1	40641	42396	41467	41501	2.12	cps
Barium	137-1	71769	72463	71417	71883	0.74	cps
Beryllium	9-1	7689	7584	7531	7601	1.06	cps
Bismuth	209-1	11927763	11910622	11979341	11939242	0.30	cps
Bismuth	209-2	5466224	5547573	5522066	5511954	0.75	cps
Bromine	81-1	4107	4324	3997	4143	4.01	cps
Cadmium	108-1	327	370	373	357	7.30	cps
Cadmium	106-1	8513	8346	8329	8396	1.21	cps
Cadmium	111-1	10378	9974	10230	10194	2.00	cps
Calcium	43-1	31825	31484	31294	31535	0.85	cps
Calcium	44-1	532733	531398	534648	532926	0.31	cps
Carbon	12-1	6816822	6724532	6798800	6780051	0.72	cps
Carbon	12-2	44460	44758	44634	44617	0.33	cps
Chlorine	35-1	170133	169645	167415	169064	0.86	cps
Chlorine	35-2	647	787	720	718	9.76	cps
Chromium	52-2	10240	10124	10524	10296	2.00	cps
Cobalt	59-2	9143	9060	9336	9180	1.55	cps
Copper	63-2	17087	16964	17064	17038	0.38	cps
Dysprosium	156-1	3	10	27	13	90.16	cps
Dysprosium	156-2	13	10	0	8	89.21	cps
Erbium	164-1	80	103	97	93	12.88	cps
Erbium	164-2	30	23	20	24	20.83	cps
Gadolinium	160-1	110	137	93	113	19.29	cps
Gadolinium	160-2	27	33	17	26	32.81	cps
Holmium	165-1	19109048	18600197	18898261	18869169	1.35	cps
Holmium	165-2	7200011	7243161	7326745	7256639	0.89	cps
Indium	115-1	15660500	15423472	15227593	15437189	1.40	cps
Indium	115-2	1687469	1721838	1672260	1693856	1.50	cps
Iron	54-2	9653	10044	9890	9862	1.99	cps
Iron	56-2	172243	172263	172914	172473	0.22	cps
Iron	57-2	4097	4164	4407	4223	3.86	cps
Krypton	83-1	237	253	307	266	13.77	cps
Lead	206-1	14872	14688	15246	14935	1.90	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12870	12940	12880	12897	0.29	cps
Lead	208-1	58816	58559	59263	58879	0.61	cps
Lithium	6-1	9299891	9137682	9178154	9205242	0.92	cps
Magnesium	24-2	155032	154737	154055	154608	0.32	cps
Manganese	55-2	1787	1943	2024	1918	6.28	cps
Molybdenum	94-1	37480	36588	37397	37155	1.33	cps
Molybdenum	95-1	44581	44652	43775	44336	1.10	cps
Molybdenum	96-1	49317	49103	48990	49136	0.34	cps
Molybdenum	97-1	27594	28426	27931	27984	1.50	cps
Molybdenum	98-1	70468	71737	71624	71276	0.99	cps
Neodymium	150-1	7	17	10	11	45.82	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	2930	3217	3017	3055	4.81	cps
Phosphorus	31-2	237	227	283	249	12.15	cps
Potassium	39-2	96795	97778	97412	97328	0.51	cps
Rhodium	103-1	15160082	14782991	14673069	14872048	1.72	cps
Rhodium	103-2	6142732	6108689	6137901	6129774	0.30	cps
Scandium	45-1	11218829	11334741	11185468	11246346	0.70	cps
Scandium	45-2	234368	234026	232668	233688	0.38	cps
Selenium	82-1	1360	1320	1320	1333	1.73	cps
Selenium	77-2	10	27	27	21	45.58	cps
Selenium	78-2	90	100	63	84	22.45	cps
Silicon	28-1	743633	745218	743436	744096	0.13	cps
Silver	107-1	21834	22178	21724	21912	1.08	cps
Silver	109-1	20656	20739	20362	20586	0.96	cps
Sodium	23-2	350301	351614	347612	349842	0.58	cps
Strontium	86-1	6438	6465	6058	6320	3.60	cps
Strontium	88-1	50555	50635	50531	50573	0.11	cps
Sulfur	34-1	822207	818598	820516	820440	0.22	cps
Terbium	159-1	19467270	19182427	19664769	19438155	1.25	cps
Terbium	159-2	7094421	6929271	7086172	7036621	1.32	cps
Thallium	203-1	16410	16547	16951	16636	1.69	cps
Thallium	205-1	40817	41045	40439	40767	0.75	cps
Tin	118-1	72933	74162	71988	73028	1.49	cps
Titanium	47-1	14547	14671	14931	14717	1.33	cps
Uranium	238-1	52066	51347	51895	51769	0.73	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:12:13	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	16763	16960	17564	17096	2.44	cps
Ytterbium	172-1	87	107	87	93	12.37	cps
Ytterbium	172-2	30	43	47	40	22.05	cps
Ytterbium	176-1	1910	1960	1974	1948	1.71	cps
Ytterbium	176-2	460	417	407	428	6.63	cps
Yttrium	89-1	27694785	27198152	27144286	27345741	1.11	cps
Yttrium	89-2	2134364	2127309	2123293	2128322	0.26	cps
Zinc	66-2	3877	3554	3914	3782	5.24	cps
Zirconium	90-1	31506	31729	30797	31344	1.55	cps
Zirconium	91-1	6792	6938	6772	6834	1.33	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	76902	75967	77488	76785	1.00	cps
Antimony	121-1	807781	824975	824898	819218	1.21	cps
Arsenic	75-2	17931	18365	17871	18056	1.49	cps
Barium	135-1	933796	944802	952074	943557	0.98	cps
Barium	137-1	1700084	1692808	1700792	1697894	0.26	cps
Beryllium	9-1	325587	323914	327765	325755	0.59	cps
Bismuth	209-1	11835766	12161966	11970761	11989498	1.37	cps
Bismuth	209-2	5398042	5514635	5447123	5453267	1.07	cps
Bromine	81-1	3914	4184	4117	4072	3.46	cps
Cadmium	108-1	16550	16540	16607	16566	0.22	cps
Cadmium	106-1	30931	31763	31596	31430	1.40	cps
Cadmium	111-1	206016	210430	208335	208260	1.06	cps
Calcium	43-1	279484	284574	284769	282942	1.06	cps
Calcium	44-1	4608063	4661574	4639445	4636360	0.58	cps
Carbon	12-1	6692741	6705147	6561408	6653099	1.20	cps
Carbon	12-2	43835	43504	44149	43830	0.74	cps
Chlorine	35-1	162871	164516	164253	163880	0.54	cps
Chlorine	35-2	647	703	710	687	5.07	cps
Chromium	52-2	199004	200509	199569	199694	0.38	cps
Cobalt	59-2	383697	382332	381978	382669	0.24	cps
Copper	63-2	3090471	3054817	3051463	3065584	0.71	cps
Dysprosium	156-1	40	13	20	24	56.78	cps
Dysprosium	156-2	7	0	0	2	173.21	cps
Erbium	164-1	117	127	100	114	11.77	cps
Erbium	164-2	30	30	40	33	17.32	cps
Gadolinium	160-1	107	127	117	117	8.57	cps
Gadolinium	160-2	40	47	37	41	12.39	cps
Holmium	165-1	19012369	19190135	18718934	18973813	1.25	cps
Holmium	165-2	7191441	7246191	7200843	7212825	0.41	cps
Indium	115-1	15301153	15311431	15203623	15272069	0.39	cps
Indium	115-2	1665123	1692534	1671187	1676281	0.86	cps
Iron	54-2	416819	413441	411730	413997	0.63	cps
Iron	56-2	7660377	7624959	7593015	7626117	0.44	cps
Iron	57-2	189643	188968	187253	188621	0.65	cps
Krypton	83-1	297	277	283	286	3.57	cps
Lead	206-1	3296562	3454928	3273388	3341626	2.96	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2896020	2895300	2841789	2877703	1.08	cps
Lead	208-1	13149489	13281827	13159514	13196943	0.56	cps
Lithium	6-1	8939248	9047798	8934731	8973926	0.71	cps
Magnesium	24-2	1406035	1412346	1393147	1403843	0.70	cps
Manganese	55-2	819890	814643	809044	814526	0.67	cps
Molybdenum	94-1	2943652	2953261	3021521	2972811	1.43	cps
Molybdenum	95-1	4165845	4196403	4248030	4203426	0.99	cps
Molybdenum	96-1	4645531	4652966	4587662	4628720	0.77	cps
Molybdenum	97-1	2634805	2634740	2629880	2633142	0.11	cps
Molybdenum	98-1	6823703	6758403	6859083	6813730	0.75	cps
Neodymium	150-1	67	47	80	64	26.03	cps
Neodymium	150-2	7	3	7	6	34.70	cps
Nickel	60-2	112762	111287	112187	112079	0.66	cps
Phosphorus	31-2	3867	3821	4297	3995	6.58	cps
Potassium	39-2	397581	403941	401401	400974	0.80	cps
Rhodium	103-1	14638919	14767211	14665422	14690517	0.46	cps
Rhodium	103-2	6122866	6103946	6135153	6120655	0.26	cps
Scandium	45-1	11138606	11168416	11104516	11137179	0.29	cps
Scandium	45-2	227896	234682	231418	231332	1.47	cps
Selenium	82-1	12296	12729	12756	12594	2.05	cps
Selenium	77-2	247	233	263	248	6.07	cps
Selenium	78-2	767	827	793	796	3.78	cps
Silicon	28-1	1333068	1325585	1333664	1330773	0.34	cps
Silver	107-1	1022429	1040561	1049033	1037341	1.31	cps
Silver	109-1	971385	990638	1001329	987784	1.54	cps
Sodium	23-2	2824033	2802814	2839326	2822058	0.65	cps
Strontium	86-1	261062	264339	264933	263444	0.79	cps
Strontium	88-1	2344980	2351538	2393725	2363414	1.12	cps
Sulfur	34-1	899444	903884	916205	906511	0.96	cps
Terbium	159-1	19335883	19369718	19484296	19396632	0.40	cps
Terbium	159-2	7073252	7160590	7048179	7094007	0.83	cps
Thallium	203-1	764074	773910	773243	770409	0.71	cps
Thallium	205-1	1930439	1971279	1914521	1938746	1.51	cps
Tin	118-1	642239	650003	654539	648927	0.96	cps
Titanium	47-1	1339447	1329370	1364097	1344305	1.33	cps
Uranium	238-1	2578460	2541458	2594587	2571502	1.06	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:15:34	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	155130	154079	154797	154669	0.35	cps
Ytterbium	172-1	93	103	150	116	26.17	cps
Ytterbium	172-2	53	50	43	49	10.42	cps
Ytterbium	176-1	5641	5561	5635	5612	0.79	cps
Ytterbium	176-2	1820	1767	1927	1838	4.43	cps
Yttrium	89-1	27065522	27259007	26710217	27011582	1.03	cps
Yttrium	89-2	2144967	2116402	2117085	2126151	0.77	cps
Zinc	66-2	331249	331555	326534	329779	0.85	cps
Zirconium	90-1	1460893	1451483	1463502	1458626	0.43	cps
Zirconium	91-1	309048	314236	312497	311927	0.85	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	193877	190956	191372	192068	0.82	cps
Antimony	121-1	2169553	2194597	2137857	2167335	1.31	cps
Arsenic	75-2	45433	45530	44804	45256	0.87	cps
Barium	135-1	2511539	2544399	2471544	2509160	1.45	cps
Barium	137-1	4318725	4301247	4219059	4279677	1.24	cps
Beryllium	9-1	806154	806252	809287	807231	0.22	cps
Bismuth	209-1	11877260	11853650	11862171	11864361	0.10	cps
Bismuth	209-2	5447065	5415724	5363961	5408916	0.78	cps
Bromine	81-1	3894	3907	3917	3906	0.30	cps
Cadmium	108-1	40540	41439	41910	41296	1.69	cps
Cadmium	106-1	64584	65692	66466	65580	1.44	cps
Cadmium	111-1	511059	517407	513664	514043	0.62	cps
Calcium	43-1	699980	706962	702906	703283	0.50	cps
Calcium	44-1	11516512	11474933	11481604	11491016	0.19	cps
Carbon	12-1	6874349	6811520	6840031	6841967	0.46	cps
Carbon	12-2	46015	45126	45440	45527	0.99	cps
Chlorine	35-1	163724	165187	164152	164354	0.46	cps
Chlorine	35-2	653	743	703	700	6.44	cps
Chromium	52-2	499047	491595	494763	495135	0.76	cps
Cobalt	59-2	954855	945248	944294	948132	0.62	cps
Copper	63-2	7624644	7489549	7470749	7528314	1.12	cps
Dysprosium	156-1	57	43	40	47	18.90	cps
Dysprosium	156-2	17	17	7	13	43.29	cps
Erbium	164-1	107	110	153	123	21.11	cps
Erbium	164-2	47	47	40	44	8.66	cps
Gadolinium	160-1	127	103	143	124	16.15	cps
Gadolinium	160-2	37	27	63	42	44.88	cps
Holmium	165-1	19262056	19286355	19143761	19230724	0.40	cps
Holmium	165-2	7225447	7350370	7338438	7304752	0.94	cps
Indium	115-1	15820383	15281839	15120666	15407629	2.38	cps
Indium	115-2	1666782	1677667	1641719	1662056	1.11	cps
Iron	54-2	1028540	1036762	1025861	1030388	0.55	cps
Iron	56-2	19166762	19227368	19128350	19174160	0.26	cps
Iron	57-2	468557	467330	469415	468434	0.22	cps
Krypton	83-1	307	327	253	296	12.83	cps
Lead	206-1	8223248	8126124	8332885	8227419	1.26	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7123233	7095846	7175695	7131591	0.57	cps
Lead	208-1	32692933	32655559	32893121	32747204	0.39	cps
Lithium	6-1	9113070	8828403	8946927	8962800	1.60	cps
Magnesium	24-2	3517181	3512300	3482847	3504109	0.53	cps
Manganese	55-2	2116544	2142110	2091866	2116840	1.19	cps
Molybdenum	94-1	7479824	7388772	7400807	7423135	0.67	cps
Molybdenum	95-1	10765388	10459877	10390353	10538539	1.89	cps
Molybdenum	96-1	11520461	11631956	11641710	11598042	0.58	cps
Molybdenum	97-1	6509587	6554995	6668857	6577813	1.25	cps
Molybdenum	98-1	17093170	17121919	17142454	17119181	0.14	cps
Neodymium	150-1	193	177	163	178	8.45	cps
Neodymium	150-2	10	17	13	13	25.01	cps
Nickel	60-2	282822	280594	280322	281246	0.49	cps
Phosphorus	31-2	9740	9597	9870	9736	1.41	cps
Potassium	39-2	990467	986919	997234	991540	0.53	cps
Rhodium	103-1	14448862	14641091	14839595	14643183	1.33	cps
Rhodium	103-2	5992628	6011513	5953737	5985959	0.49	cps
Scandium	45-1	11289297	10982245	10814854	11028798	2.18	cps
Scandium	45-2	232390	229957	230320	230889	0.57	cps
Selenium	82-1	31379	32198	31877	31818	1.30	cps
Selenium	77-2	573	607	597	592	2.89	cps
Selenium	78-2	1987	2157	2014	2052	4.46	cps
Silicon	28-1	2383960	2353096	2358571	2365209	0.70	cps
Silver	107-1	2773607	2727474	2677264	2726115	1.77	cps
Silver	109-1	2564647	2564938	2555087	2561557	0.22	cps
Sodium	23-2	7058828	6887322	6922784	6956311	1.30	cps
Strontium	86-1	660068	662981	666273	663107	0.47	cps
Strontium	88-1	6053057	5909576	5923227	5961953	1.33	cps
Sulfur	34-1	1013142	1003637	1010874	1009218	0.49	cps
Terbium	159-1	19918388	19606890	19589411	19704896	0.94	cps
Terbium	159-2	7074712	7057285	7074950	7068982	0.14	cps
Thallium	203-1	2014968	1984472	2034057	2011166	1.24	cps
Thallium	205-1	4790188	4721904	4833609	4781900	1.18	cps
Tin	118-1	1683997	1663466	1668204	1671889	0.64	cps
Titanium	47-1	3358030	3375340	3297974	3343782	1.21	cps
Uranium	238-1	6435390	6545257	6403118	6461255	1.15	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:18:35	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	389348	387200	388562	388370	0.28	cps
Ytterbium	172-1	143	110	107	120	16.90	cps
Ytterbium	172-2	33	77	83	64	42.13	cps
Ytterbium	176-1	10878	10524	10808	10737	1.74	cps
Ytterbium	176-2	3917	3897	3967	3927	0.92	cps
Yttrium	89-1	27637518	27440120	27151227	27409622	0.89	cps
Yttrium	89-2	2127871	2124015	2128684	2126857	0.12	cps
Zinc	66-2	831155	826060	821682	826299	0.57	cps
Zirconium	90-1	3648040	3683064	3737210	3689438	1.22	cps
Zirconium	91-1	787803	787470	793271	789515	0.41	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	381059	381194	382460	381571	0.20	cps
Antimony	121-1	4419238	4461247	4466045	4448844	0.58	cps
Arsenic	75-2	90974	90133	90729	90612	0.48	cps
Barium	135-1	4980895	4972792	5003519	4985736	0.32	cps
Barium	137-1	8541745	8519364	8585601	8548903	0.39	cps
Beryllium	9-1	1655284	1622470	1662153	1646635	1.29	cps
Bismuth	209-1	11613407	11899130	12074759	11862432	1.96	cps
Bismuth	209-2	5284012	5325879	5318270	5309387	0.42	cps
Bromine	81-1	4054	3931	4114	4033	2.32	cps
Cadmium	108-1	83011	83980	83517	83503	0.58	cps
Cadmium	106-1	123836	124983	125793	124871	0.79	cps
Cadmium	111-1	1014249	1037527	1028731	1026836	1.14	cps
Calcium	43-1	1448233	1455161	1439301	1447565	0.55	cps
Calcium	44-1	22860559	23504805	22951699	23105688	1.51	cps
Carbon	12-1	7008747	7090515	7073649	7057637	0.61	cps
Carbon	12-2	48192	47553	47747	47831	0.68	cps
Chlorine	35-1	171994	172147	170824	171655	0.42	cps
Chlorine	35-2	710	663	767	713	7.25	cps
Chromium	52-2	984754	982090	987478	984774	0.27	cps
Cobalt	59-2	1949773	1937294	1938637	1941901	0.35	cps
Copper	63-2	15035412	14897120	14874844	14935792	0.58	cps
Dysprosium	156-1	113	103	90	102	11.45	cps
Dysprosium	156-2	23	17	7	16	53.90	cps
Erbium	164-1	147	130	160	146	10.33	cps
Erbium	164-2	53	57	67	59	11.79	cps
Gadolinium	160-1	160	163	183	169	7.47	cps
Gadolinium	160-2	60	27	23	37	55.30	cps
Holmium	165-1	18675645	19078671	19463348	19072555	2.07	cps
Holmium	165-2	7188799	7196428	7298354	7227861	0.85	cps
Indium	115-1	14890826	15070943	15427654	15129808	1.81	cps
Indium	115-2	1643980	1635226	1623831	1634346	0.62	cps
Iron	54-2	2140432	2078215	2092129	2103592	1.55	cps
Iron	56-2	38666761	38402314	37688142	38252406	1.32	cps
Iron	57-2	945072	932857	927664	935198	0.96	cps
Krypton	83-1	233	240	217	230	5.22	cps
Lead	206-1	16632424	16721463	16874753	16742880	0.73	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14199802	14359754	14482513	14347356	0.99	cps
Lead	208-1	65906237	66069131	66833915	66269761	0.75	cps
Lithium	6-1	8844325	8711131	8839599	8798352	0.86	cps
Magnesium	24-2	6893702	6830540	6961069	6895104	0.95	cps
Manganese	55-2	4170857	4156464	4156385	4161235	0.20	cps
Molybdenum	94-1	15007301	14845417	15143077	14998598	0.99	cps
Molybdenum	95-1	21112342	21261318	21272688	21215449	0.42	cps
Molybdenum	96-1	23177749	23352015	23149916	23226560	0.47	cps
Molybdenum	97-1	13119514	13235765	13117499	13157593	0.51	cps
Molybdenum	98-1	34436208	34190959	34126944	34251371	0.48	cps
Neodymium	150-1	293	317	277	296	6.80	cps
Neodymium	150-2	7	3	7	6	34.70	cps
Nickel	60-2	555487	554863	554589	554980	0.08	cps
Phosphorus	31-2	19850	19353	20164	19789	2.07	cps
Potassium	39-2	2049243	1999633	1989388	2012755	1.59	cps
Rhodium	103-1	14035049	14335741	14421507	14264099	1.42	cps
Rhodium	103-2	5915791	5877862	5838446	5877366	0.66	cps
Scandium	45-1	10778364	10913377	10980519	10890753	0.95	cps
Scandium	45-2	229693	226490	229506	228563	0.79	cps
Selenium	82-1	64147	64452	64344	64314	0.24	cps
Selenium	77-2	1197	1257	1243	1232	2.56	cps
Selenium	78-2	4141	4044	4114	4100	1.22	cps
Silicon	28-1	4019170	4097336	4077675	4064727	1.00	cps
Silver	107-1	5405798	5395142	5456702	5419214	0.61	cps
Silver	109-1	5094150	5090509	5127782	5104147	0.40	cps
Sodium	23-2	13899727	13566310	13840921	13768986	1.29	cps
Strontium	86-1	1337419	1332866	1340730	1337005	0.30	cps
Strontium	88-1	11764634	11889991	11706445	11787023	0.80	cps
Sulfur	34-1	1215129	1207730	1198612	1207157	0.69	cps
Terbium	159-1	19326943	19237876	19995523	19520114	2.12	cps
Terbium	159-2	6959400	7011956	7027230	6999528	0.51	cps
Thallium	203-1	4090005	4092546	4134062	4105538	0.60	cps
Thallium	205-1	9663443	9821273	9728497	9737738	0.81	cps
Tin	118-1	3352786	3314541	3395184	3354170	1.20	cps
Titanium	47-1	6570723	6797782	6685795	6684766	1.70	cps
Uranium	238-1	13089032	13126832	13214494	13143453	0.49	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:21:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	775431	775648	776082	775720	0.04	cps
Ytterbium	172-1	177	137	193	169	17.24	cps
Ytterbium	172-2	43	70	57	57	23.53	cps
Ytterbium	176-1	20483	20115	20433	20344	0.98	cps
Ytterbium	176-2	7349	7732	7562	7548	2.55	cps
Yttrium	89-1	26733145	26821661	27182710	26912505	0.88	cps
Yttrium	89-2	2066380	2042858	2106914	2072050	1.56	cps
Zinc	66-2	1730467	1685408	1683784	1699887	1.56	cps
Zirconium	90-1	7359632	7312209	7438462	7370101	0.87	cps
Zirconium	91-1	1625969	1656503	1659039	1647171	1.12	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	727753	723308	725074	725378	0.31	cps
Antimony	121-1	8031599	8154392	8195334	8127108	1.05	cps
Arsenic	75-2	172471	172846	175407	173575	0.92	cps
Barium	135-1	9502127	9612055	9662770	9592318	0.86	cps
Barium	137-1	16615159	16896466	16638979	16716868	0.93	cps
Beryllium	9-1	3023153	3083444	3091009	3065869	1.21	cps
Bismuth	209-1	11582195	11429356	11505717	11505756	0.66	cps
Bismuth	209-2	5049446	4948859	5090762	5029689	1.45	cps
Bromine	81-1	4087	3587	3707	3794	6.88	cps
Cadmium	108-1	157731	157316	157327	157458	0.15	cps
Cadmium	106-1	229136	231388	231141	230555	0.54	cps
Cadmium	111-1	2007686	1990481	2025456	2007874	0.87	cps
Calcium	43-1	2691881	2789869	2728031	2736594	1.81	cps
Calcium	44-1	44298696	44449201	43872994	44206964	0.68	cps
Carbon	12-1	7033492	7243901	7325016	7200803	2.09	cps
Carbon	12-2	50159	48988	49995	49714	1.28	cps
Chlorine	35-1	174383	175438	175995	175272	0.47	cps
Chlorine	35-2	733	703	743	727	2.86	cps
Chromium	52-2	1986624	1933539	1951569	1957244	1.38	cps
Cobalt	59-2	3680440	3661378	3637459	3659759	0.59	cps
Copper	63-2	28212889	28561340	28385672	28386633	0.61	cps
Dysprosium	156-1	193	193	210	199	4.84	cps
Dysprosium	156-2	20	37	33	30	29.40	cps
Erbium	164-1	207	203	173	194	9.44	cps
Erbium	164-2	73	50	40	54	31.42	cps
Gadolinium	160-1	190	213	163	189	13.24	cps
Gadolinium	160-2	53	83	57	64	25.51	cps
Holmium	165-1	18901695	18493068	18928987	18774584	1.30	cps
Holmium	165-2	7031421	6963298	6941002	6978574	0.67	cps
Indium	115-1	14877403	14449438	14617891	14648244	1.47	cps
Indium	115-2	1575008	1512139	1534004	1540384	2.07	cps
Iron	54-2	3962709	4012106	4064910	4013242	1.27	cps
Iron	56-2	73048947	72054507	71817714	72307056	0.90	cps
Iron	57-2	1853118	1887142	1861979	1867413	0.95	cps
Krypton	83-1	290	377	263	310	19.11	cps
Lead	206-1	32053124	32019266	31903926	31992105	0.24	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27491291	27347154	27891644	27576696	1.02	cps
Lead	208-1	126317807	126507011	127477116	126767311	0.49	cps
Lithium	6-1	8725884	8452820	8433873	8537526	1.91	cps
Magnesium	24-2	13265646	13040299	13123584	13143177	0.87	cps
Manganese	55-2	7926696	7778140	7824667	7843168	0.97	cps
Molybdenum	94-1	28696967	29070750	28841675	28869797	0.65	cps
Molybdenum	95-1	40650788	41437959	41113407	41067385	0.96	cps
Molybdenum	96-1	45015996	45173254	44873923	45021058	0.33	cps
Molybdenum	97-1	25328836	25329551	25289345	25315911	0.09	cps
Molybdenum	98-1	65634089	66393877	66560194	66196053	0.75	cps
Neodymium	150-1	543	550	550	548	0.70	cps
Neodymium	150-2	27	17	23	22	22.91	cps
Nickel	60-2	964537	973448	960700	966228	0.68	cps
Phosphorus	31-2	36255	36439	36061	36252	0.52	cps
Potassium	39-2	3730959	3738105	3724100	3731055	0.19	cps
Rhodium	103-1	13921268	13730898	13655629	13769265	0.99	cps
Rhodium	103-2	5654421	5534422	5562181	5583675	1.13	cps
Scandium	45-1	11063815	10568811	10661791	10764806	2.44	cps
Scandium	45-2	218499	212627	214273	215133	1.41	cps
Selenium	82-1	119933	121178	122290	121134	0.97	cps
Selenium	77-2	2310	2450	2324	2361	3.27	cps
Selenium	78-2	7559	7695	7846	7700	1.86	cps
Silicon	28-1	7081938	7092899	7210499	7128446	1.00	cps
Silver	107-1	10097623	10380950	10264373	10247648	1.39	cps
Silver	109-1	9469597	9709371	9664031	9614333	1.32	cps
Sodium	23-2	26735208	25808874	26123570	26222551	1.80	cps
Strontium	86-1	2639480	2710345	2686230	2678685	1.35	cps
Strontium	88-1	22863448	23146054	22889815	22966439	0.68	cps
Sulfur	34-1	1542131	1516409	1537580	1532040	0.90	cps
Terbium	159-1	19476427	19247160	19390062	19371216	0.60	cps
Terbium	159-2	6821970	6712442	6649922	6728111	1.29	cps
Thallium	203-1	7878319	7714251	7874703	7822425	1.20	cps
Thallium	205-1	18604544	18508286	18488872	18533901	0.33	cps
Tin	118-1	6343602	6494097	6598557	6478752	1.98	cps
Titanium	47-1	12756625	13049561	12834451	12880212	1.18	cps
Uranium	238-1	24700718	25665374	25619500	25328531	2.15	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:24:18	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1555910	1543795	1525819	1541841	0.98	cps
Ytterbium	172-1	183	143	257	194	29.56	cps
Ytterbium	172-2	90	83	70	81	12.55	cps
Ytterbium	176-1	37901	38262	38122	38095	0.48	cps
Ytterbium	176-2	14672	14592	14411	14558	0.92	cps
Yttrium	89-1	26879671	26689068	26376425	26648388	0.95	cps
Yttrium	89-2	2032356	1973964	1980411	1995577	1.60	cps
Zinc	66-2	3090335	3087282	3021703	3066440	1.26	cps
Zirconium	90-1	14130179	14359657	14324793	14271543	0.87	cps
Zirconium	91-1	3176736	3251431	3240024	3222730	1.25	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1478227	1490745	1475104	1481359	0.56	cps
Antimony	121-1	15907673	16086655	16293804	16096044	1.20	cps
Arsenic	75-2	347031	347402	347645	347359	0.09	cps
Barium	135-1	18865895	19081466	19373907	19107089	1.33	cps
Barium	137-1	32713920	33547877	33287565	33183121	1.29	cps
Beryllium	9-1	5966290	5970200	6002875	5979788	0.34	cps
Bismuth	209-1	11500362	11378110	11343770	11407414	0.72	cps
Bismuth	209-2	5047653	5031844	5011660	5030385	0.36	cps
Bromine	81-1	4027	4074	3944	4015	1.64	cps
Cadmium	108-1	313042	317158	314054	314751	0.68	cps
Cadmium	106-1	445752	450501	455094	450449	1.04	cps
Cadmium	111-1	3934869	3987633	4003151	3975218	0.90	cps
Calcium	43-1	5326185	5392213	5507480	5408626	1.70	cps
Calcium	44-1	87272235	88191302	88996792	88153443	0.98	cps
Carbon	12-1	7888259	8179511	8221453	8096408	2.24	cps
Carbon	12-2	57833	58128	57639	57867	0.43	cps
Chlorine	35-1	194829	197164	200883	197625	1.54	cps
Chlorine	35-2	923	840	867	877	4.86	cps
Chromium	52-2	3884849	3926358	3794061	3868423	1.75	cps
Cobalt	59-2	7252536	7210068	7259606	7240737	0.37	cps
Copper	63-2	54925471	54897134	55734334	55185646	0.86	cps
Dysprosium	156-1	283	357	347	329	12.09	cps
Dysprosium	156-2	63	43	70	59	23.57	cps
Erbium	164-1	220	263	277	253	11.70	cps
Erbium	164-2	83	103	60	82	26.38	cps
Gadolinium	160-1	237	227	260	241	7.10	cps
Gadolinium	160-2	57	93	83	78	24.37	cps
Holmium	165-1	18892438	18834016	18792289	18839581	0.27	cps
Holmium	165-2	7080777	7083308	7169958	7111348	0.71	cps
Indium	115-1	14536549	14542521	14592191	14557087	0.21	cps
Indium	115-2	1530754	1538144	1503099	1523999	1.21	cps
Iron	54-2	7794851	7808987	7948302	7850713	1.08	cps
Iron	56-2	141539905	142594408	141166445	141766919	0.52	cps
Iron	57-2	3695126	3669716	3573579	3646140	1.76	cps
Krypton	83-1	283	333	267	294	11.78	cps
Lead	206-1	62484467	62949192	63782509	63072056	1.04	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	53857091	54405836	54647956	54303628	0.75	cps
Lead	208-1	249516203	252277136	252779603	251524314	0.70	cps
Lithium	6-1	8490599	8333754	8275242	8366532	1.33	cps
Magnesium	24-2	25617554	26083670	25771685	25824303	0.92	cps
Manganese	55-2	15824795	15678609	15717569	15740325	0.48	cps
Molybdenum	94-1	56493969	57868816	57331447	57231411	1.21	cps
Molybdenum	95-1	81228515	81241000	82365267	81611594	0.80	cps
Molybdenum	96-1	90332749	89159999	90884615	90125788	0.98	cps
Molybdenum	97-1	51047141	50345018	50960299	50784153	0.75	cps
Molybdenum	98-1	132223608	133286628	131936935	132482390	0.54	cps
Neodymium	150-1	1300	1077	1217	1198	9.42	cps
Neodymium	150-2	43	43	43	43	0.00	cps
Nickel	60-2	2020771	2000205	2025026	2015334	0.66	cps
Phosphorus	31-2	71384	72480	71344	71736	0.90	cps
Potassium	39-2	7465606	7562649	7420809	7483021	0.97	cps
Rhodium	103-1	13621097	13356727	13479736	13485853	0.98	cps
Rhodium	103-2	5553290	5558051	5568447	5559929	0.14	cps
Scandium	45-1	10601975	10574972	10654746	10610564	0.38	cps
Scandium	45-2	222625	220469	220681	221259	0.54	cps
Selenium	82-1	238832	240033	243009	240625	0.89	cps
Selenium	77-2	4524	4451	4311	4429	2.45	cps
Selenium	78-2	15348	15652	15582	15528	1.02	cps
Silicon	28-1	13213174	13251026	13020754	13161651	0.94	cps
Silver	107-1	20086364	20145731	20182981	20138359	0.24	cps
Silver	109-1	19026341	18764733	18898842	18896639	0.69	cps
Sodium	23-2	51830029	52090336	51002531	51640965	1.10	cps
Strontium	86-1	5219753	5362695	5245694	5276047	1.44	cps
Strontium	88-1	45755314	45963693	45604576	45774528	0.39	cps
Sulfur	34-1	2219528	2247102	2216188	2227606	0.76	cps
Terbium	159-1	19255737	18936896	19373706	19188780	1.18	cps
Terbium	159-2	6799196	6883486	6790911	6824531	0.75	cps
Thallium	203-1	15399515	15463684	15541301	15468167	0.46	cps
Thallium	205-1	36949323	36725365	37178799	36951163	0.61	cps
Tin	118-1	12716397	12825915	12882971	12808428	0.66	cps
Titanium	47-1	25815693	25659760	25777973	25751142	0.32	cps
Uranium	238-1	51111966	52042983	51006356	51387101	1.11	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:27:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3062741	3048036	3090576	3067118	0.70	cps
Ytterbium	172-1	203	310	267	260	20.63	cps
Ytterbium	172-2	127	87	87	100	23.09	cps
Ytterbium	176-1	74244	75390	74371	74668	0.84	cps
Ytterbium	176-2	27936	28802	28180	28306	1.58	cps
Yttrium	89-1	26853554	26529204	25938540	26440433	1.75	cps
Yttrium	89-2	2030607	2037754	2006209	2024857	0.82	cps
Zinc	66-2	5980741	5995489	5979827	5985352	0.15	cps
Zirconium	90-1	27928636	28703199	28526435	28386090	1.43	cps
Zirconium	91-1	6270988	6313724	6395916	6326876	1.00	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7111375	7184102	7096579	7130685	0.66	cps
Antimony	121-1	6535	6168	6161	6288	3.40	cps
Arsenic	75-2	243	223	210	226	7.44	cps
Barium	135-1	7282	6648	6952	6961	4.55	cps
Barium	137-1	12633	12566	12102	12434	2.32	cps
Beryllium	9-1	2267	1861	1941	2023	10.64	cps
Bismuth	209-1	9670068	9786847	9792358	9749757	0.71	cps
Bismuth	209-2	4450812	4524946	4476082	4483946	0.84	cps
Bromine	81-1	4034	4011	4047	4031	0.46	cps
Cadmium	108-1	183	230	187	200	13.02	cps
Cadmium	106-1	7129	7132	7325	7195	1.57	cps
Cadmium	111-1	5595	5558	5644	5599	0.77	cps
Calcium	43-1	25593620	25477560	25558408	25543196	0.23	cps
Calcium	44-1	419534207	422284234	417417994	419745478	0.58	cps
Carbon	12-1	6960702	6987123	7061879	7003235	0.75	cps
Carbon	12-2	62987	61150	61471	61869	1.59	cps
Chlorine	35-1	157330	155906	155033	156090	0.74	cps
Chlorine	35-2	723	657	693	691	4.83	cps
Chromium	52-2	9430	9707	9256	9464	2.40	cps
Cobalt	59-2	15545	14908	15121	15192	2.14	cps
Copper	63-2	11111	11418	11501	11344	1.81	cps
Dysprosium	156-1	683	597	490	590	16.41	cps
Dysprosium	156-2	210	230	203	214	6.47	cps
Erbium	164-1	737	740	743	740	0.45	cps
Erbium	164-2	267	270	247	261	4.83	cps
Gadolinium	160-1	643	683	643	657	3.52	cps
Gadolinium	160-2	323	250	287	287	12.79	cps
Holmium	165-1	17356685	17234881	17063709	17218425	0.85	cps
Holmium	165-2	6709295	6650980	6710052	6690109	0.51	cps
Indium	115-1	12978444	12888503	12686119	12851022	1.17	cps
Indium	115-2	1400862	1404760	1406715	1404112	0.21	cps
Iron	54-2	37101010	36692526	37519987	37104508	1.12	cps
Iron	56-2	676287577	676177683	685610176	679358479	0.80	cps
Iron	57-2	16953199	17027901	17233096	17071399	0.85	cps
Krypton	83-1	313	263	380	319	18.35	cps
Lead	206-1	15286	14758	14966	15003	1.77	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12940	13067	12543	12850	2.13	cps
Lead	208-1	59474	59497	58332	59101	1.13	cps
Lithium	6-1	7415734	7469342	7465492	7450189	0.40	cps
Magnesium	24-2	122631098	123869295	124557435	123685943	0.79	cps
Manganese	55-2	6965	6605	6998	6856	3.18	cps
Molybdenum	94-1	24989	24465	23483	24312	3.14	cps
Molybdenum	95-1	12559	11435	11755	11916	4.86	cps
Molybdenum	96-1	16697	16033	15385	16038	4.09	cps
Molybdenum	97-1	7319	6969	6502	6930	5.92	cps
Molybdenum	98-1	18599	17231	16807	17546	5.34	cps
Neodymium	150-1	300	350	313	321	8.06	cps
Neodymium	150-2	77	73	73	74	2.59	cps
Nickel	60-2	6538	6465	6535	6513	0.64	cps
Phosphorus	31-2	123	83	127	111	21.71	cps
Potassium	39-2	36181777	36639506	36616581	36479288	0.71	cps
Rhodium	103-1	11579544	11707732	11582169	11623149	0.63	cps
Rhodium	103-2	4949688	4934688	5011806	4965394	0.82	cps
Scandium	45-1	9718644	9545877	9626464	9630329	0.90	cps
Scandium	45-2	203232	206688	207131	205683	1.04	cps
Selenium	82-1	23	87	-27	28	204.49	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	10	7	7	50.03	cps
Silicon	28-1	822249	809841	800870	810987	1.32	cps
Silver	107-1	2950	2437	2337	2575	12.78	cps
Silver	109-1	2637	2364	2194	2398	9.33	cps
Sodium	23-2	250896916	249190010	246315976	248800967	0.93	cps
Strontium	86-1	16573	16637	16597	16602	0.19	cps
Strontium	88-1	140324	139455	141037	140272	0.56	cps
Sulfur	34-1	686851	659894	649243	665329	2.91	cps
Terbium	159-1	17581348	17539916	17802801	17641355	0.80	cps
Terbium	159-2	6430702	6499098	6437983	6455928	0.58	cps
Thallium	203-1	1753	1540	1347	1547	13.15	cps
Thallium	205-1	4354	3754	3227	3778	14.93	cps
Tin	118-1	4324	4354	4267	4315	1.02	cps
Titanium	47-1	3677	3190	3277	3382	7.68	cps
Uranium	238-1	3597	2794	2604	2998	17.59	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:29:51	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	833	760	870	821	6.82	cps
Ytterbium	172-1	877	913	857	882	3.26	cps
Ytterbium	172-2	390	337	397	374	8.78	cps
Ytterbium	176-1	2250	2324	2200	2258	2.75	cps
Ytterbium	176-2	593	537	617	582	7.07	cps
Yttrium	89-1	23700940	23951312	23989650	23880634	0.66	cps
Yttrium	89-2	1953666	1953088	1946351	1951035	0.21	cps
Zinc	66-2	3050	2960	2820	2944	3.94	cps
Zirconium	90-1	47280	48367	47544	47730	1.19	cps
Zirconium	91-1	10841	10868	10517	10742	1.82	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	37776	38715	38123	38205	1.24	cps
Antimony	121-1	3518285	3467284	3521626	3502398	0.87	cps
Arsenic	75-2	75836	77418	77076	76777	1.08	cps
Barium	135-1	405474	406290	401357	404374	0.65	cps
Barium	137-1	701931	706011	709513	705818	0.54	cps
Beryllium	9-1	672299	672747	673484	672844	0.09	cps
Bismuth	209-1	12260999	12187452	12112890	12187113	0.61	cps
Bismuth	209-2	5504484	5500817	5457768	5487690	0.47	cps
Bromine	81-1	4211	4231	4137	4193	1.17	cps
Cadmium	108-1	43258	44355	44191	43934	1.35	cps
Cadmium	106-1	46378	46150	46782	46437	0.69	cps
Cadmium	111-1	440808	442064	443830	442234	0.34	cps
Calcium	43-1	130643	128948	129725	129772	0.65	cps
Calcium	44-1	2129571	2100672	2095750	2108664	0.87	cps
Carbon	12-1	7186018	7288253	7328436	7267569	1.01	cps
Carbon	12-2	48730	48095	48871	48565	0.85	cps
Chlorine	35-1	150769	149789	150556	150371	0.34	cps
Chlorine	35-2	653	577	560	597	8.34	cps
Chromium	52-2	417991	422083	415826	418634	0.76	cps
Cobalt	59-2	808641	804438	810610	807896	0.39	cps
Copper	63-2	622710	627512	632385	627536	0.77	cps
Dysprosium	156-1	20	27	37	28	30.20	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	97	103	107	102	4.98	cps
Erbium	164-2	40	30	47	39	21.57	cps
Gadolinium	160-1	107	103	160	123	25.78	cps
Gadolinium	160-2	40	23	40	34	27.94	cps
Holmium	165-1	19530936	19363658	19143007	19345867	1.01	cps
Holmium	165-2	7188134	7339491	7366385	7298003	1.32	cps
Indium	115-1	15624360	15686694	15715668	15675574	0.30	cps
Indium	115-2	1702786	1716664	1700336	1706595	0.52	cps
Iron	54-2	349193	351250	348744	349729	0.38	cps
Iron	56-2	6352436	6166124	6346127	6288229	1.68	cps
Iron	57-2	154861	154558	154025	154481	0.27	cps
Krypton	83-1	213	307	270	263	17.86	cps
Lead	206-1	2841099	2834233	2884812	2853381	0.96	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2335929	2384811	2416769	2379170	1.71	cps
Lead	208-1	10989917	11171804	11206645	11122789	1.05	cps
Lithium	6-1	8999658	9082072	8941669	9007800	0.78	cps
Magnesium	24-2	321983	316866	318943	319264	0.81	cps
Manganese	55-2	167591	169085	168484	168387	0.45	cps
Molybdenum	94-1	24116314	23936361	24021429	24024701	0.37	cps
Molybdenum	95-1	41769889	42166579	42148059	42028176	0.53	cps
Molybdenum	96-1	45411478	45789256	45276844	45492526	0.58	cps
Molybdenum	97-1	26225311	26318973	25768501	26104262	1.13	cps
Molybdenum	98-1	67391746	67809506	66708071	67303107	0.83	cps
Neodymium	150-1	57	47	47	50	11.55	cps
Neodymium	150-2	7	3	0	3	100.05	cps
Nickel	60-2	221512	223962	223088	222854	0.56	cps
Phosphorus	31-2	120	83	123	109	20.39	cps
Potassium	39-2	326235	322972	326399	325202	0.59	cps
Rhodium	103-1	15220405	15005582	14927342	15051110	1.01	cps
Rhodium	103-2	6230946	6161092	6206494	6199511	0.57	cps
Scandium	45-1	11326349	11104782	11113400	11181510	1.12	cps
Scandium	45-2	233074	231200	229525	231266	0.77	cps
Selenium	82-1	53894	54071	54125	54030	0.22	cps
Selenium	77-2	1080	1060	953	1031	6.60	cps
Selenium	78-2	3340	3374	3340	3352	0.57	cps
Silicon	28-1	655127	656254	656934	656105	0.14	cps
Silver	107-1	1025986	1045902	1046230	1039373	1.12	cps
Silver	109-1	979417	990222	1006004	991881	1.35	cps
Sodium	23-2	1193289	1210260	1170958	1191502	1.65	cps
Strontium	86-1	2845266	2867487	2825536	2846096	0.74	cps
Strontium	88-1	24657236	24491727	24253579	24467514	0.83	cps
Sulfur	34-1	768003	752962	749669	756878	1.29	cps
Terbium	159-1	19909884	19742394	20022287	19891522	0.71	cps
Terbium	159-2	7103819	7122615	6974327	7066920	1.14	cps
Thallium	203-1	3452613	3388893	3502142	3447882	1.65	cps
Thallium	205-1	8102989	7960762	8073069	8045607	0.93	cps
Tin	118-1	2700	3214	2754	2889	9.78	cps
Titanium	47-1	1450	1587	1547	1528	4.60	cps
Uranium	238-1	797	677	753	742	8.19	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:45:45	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	322419	322308	315334	320020	1.27	cps
Ytterbium	172-1	130	167	90	129	29.75	cps
Ytterbium	172-2	43	47	67	52	24.17	cps
Ytterbium	176-1	1840	1890	1877	1869	1.39	cps
Ytterbium	176-2	450	447	327	408	17.23	cps
Yttrium	89-1	28261925	27976193	27451385	27896501	1.47	cps
Yttrium	89-2	2120940	2135279	2158834	2138351	0.89	cps
Zinc	66-2	127644	129737	130955	129445	1.29	cps
Zirconium	90-1	1533	1513	1370	1472	6.05	cps
Zirconium	91-1	840	953	957	917	7.25	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	97	130	107	111	15.39	cps
Antimony	121-1	503	570	583	552	7.76	cps
Arsenic	75-2	27	0	0	9	173.21	cps
Barium	135-1	117	80	103	100	18.56	cps
Barium	137-1	137	160	153	150	8.01	cps
Beryllium	9-1	729	672	691	697	4.11	cps
Bismuth	209-1	12225291	12255663	12075051	12185335	0.79	cps
Bismuth	209-2	5476060	5427511	5413200	5438924	0.61	cps
Bromine	81-1	4004	4131	3941	4025	2.40	cps
Cadmium	108-1	7	13	27	16	65.47	cps
Cadmium	106-1	7172	7789	7582	7514	4.18	cps
Cadmium	111-1	5069	5493	5329	5297	4.04	cps
Calcium	43-1	617	690	670	659	5.75	cps
Calcium	44-1	34565	33810	34147	34174	1.11	cps
Carbon	12-1	6207591	6351346	6336719	6298552	1.26	cps
Carbon	12-2	41328	41485	41047	41287	0.54	cps
Chlorine	35-1	154912	154110	152079	153700	0.95	cps
Chlorine	35-2	663	557	637	619	8.97	cps
Chromium	52-2	1037	1023	1110	1057	4.42	cps
Cobalt	59-2	120	110	93	108	12.50	cps
Copper	63-2	5474	5551	5458	5494	0.91	cps
Dysprosium	156-1	17	20	23	20	16.65	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	113	93	113	107	10.82	cps
Erbium	164-2	37	43	33	38	13.48	cps
Gadolinium	160-1	127	120	147	131	10.59	cps
Gadolinium	160-2	37	27	27	30	19.24	cps
Holmium	165-1	18733260	19044602	19011323	18929728	0.90	cps
Holmium	165-2	7170051	7161997	7190591	7174213	0.21	cps
Indium	115-1	15217671	15425472	15360911	15334685	0.69	cps
Indium	115-2	1743046	1711268	1689515	1714610	1.57	cps
Iron	54-2	533	557	463	518	9.38	cps
Iron	56-2	7465	7789	7632	7629	2.12	cps
Iron	57-2	143	187	253	194	28.50	cps
Krypton	83-1	250	257	300	269	10.10	cps
Lead	206-1	3080	3030	3074	3062	0.89	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2677	2754	2687	2706	1.54	cps
Lead	208-1	12409	12459	12453	12440	0.22	cps
Lithium	6-1	9079892	8821882	8887853	8929876	1.50	cps
Magnesium	24-2	1743	1740	1683	1722	1.96	cps
Manganese	55-2	123	163	110	132	20.99	cps
Molybdenum	94-1	937	967	770	891	11.89	cps
Molybdenum	95-1	1203	990	1113	1102	9.72	cps
Molybdenum	96-1	1250	1147	1160	1186	4.74	cps
Molybdenum	97-1	663	480	567	570	16.09	cps
Molybdenum	98-1	2194	1363	1357	1638	29.40	cps
Neodymium	150-1	13	7	13	11	34.61	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	623	543	677	614	10.92	cps
Phosphorus	31-2	103	103	90	99	7.79	cps
Potassium	39-2	14531	14057	14317	14302	1.66	cps
Rhodium	103-1	14889942	14769158	14860694	14839931	0.42	cps
Rhodium	103-2	6260718	6179225	6164575	6201506	0.84	cps
Scandium	45-1	11180402	10980463	10977024	11045963	1.05	cps
Scandium	45-2	229534	228224	227557	228438	0.44	cps
Selenium	82-1	50	0	33	28	91.66	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	3	10	6	69.34	cps
Silicon	28-1	635300	633690	631714	633568	0.28	cps
Silver	107-1	480	1205	447	711	60.33	cps
Silver	109-1	333	263	307	301	11.73	cps
Sodium	23-2	66752	65412	66169	66111	1.02	cps
Strontium	86-1	527	513	530	523	1.69	cps
Strontium	88-1	927	717	653	766	18.69	cps
Sulfur	34-1	773469	771754	777701	774308	0.40	cps
Terbium	159-1	19656591	19603336	19566019	19608649	0.23	cps
Terbium	159-2	6981353	6992083	7039201	7004212	0.44	cps
Thallium	203-1	467	507	503	492	4.51	cps
Thallium	205-1	1217	1130	1340	1229	8.59	cps
Tin	118-1	1790	2097	1920	1936	7.95	cps
Titanium	47-1	237	223	270	243	9.88	cps
Uranium	238-1	73	53	47	58	24.02	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:50:48	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	13	7	11	34.61	cps
Ytterbium	172-1	123	97	97	106	14.59	cps
Ytterbium	172-2	53	47	50	50	6.66	cps
Ytterbium	176-1	1767	1777	1857	1800	2.74	cps
Ytterbium	176-2	363	363	400	376	5.64	cps
Yttrium	89-1	27280254	26947136	26756037	26994476	0.98	cps
Yttrium	89-2	2147389	2107596	2105443	2120143	1.11	cps
Zinc	66-2	363	373	350	362	3.23	cps
Zirconium	90-1	1030	923	943	966	5.87	cps
Zirconium	91-1	190	183	200	191	4.39	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6843237	6948448	6905729	6899138	0.77	cps
Antimony	121-1	17842	18312	18276	18143	1.44	cps
Arsenic	75-2	97	117	130	114	14.66	cps
Barium	135-1	5421	5605	5605	5543	1.91	cps
Barium	137-1	9060	8980	9503	9181	3.07	cps
Beryllium	9-1	2276	2307	2174	2252	3.11	cps
Bismuth	209-1	11879058	11021733	11090550	11330447	4.20	cps
Bismuth	209-2	4978348	5102253	5022008	5034203	1.25	cps
Bromine	81-1	6048	6658	6592	6433	5.20	cps
Cadmium	108-1	5451	5661	5148	5420	4.76	cps
Cadmium	106-1	7105	7055	6985	7049	0.86	cps
Cadmium	111-1	7713	7301	7741	7585	3.25	cps
Calcium	43-1	5378412	5361706	5406531	5382216	0.42	cps
Calcium	44-1	88022309	89877015	89181525	89026950	1.05	cps
Carbon	12-1	50090541	50636151	51367714	50698135	1.26	cps
Carbon	12-2	339754	340986	338907	339882	0.31	cps
Chlorine	35-1	80749075	88225452	90578672	86517733	5.93	cps
Chlorine	35-2	408794	416201	417839	414278	1.16	cps
Chromium	52-2	77036	78447	78112	77865	0.95	cps
Cobalt	59-2	8599	8930	8726	8752	1.90	cps
Copper	63-2	48014	49058	48793	48622	1.12	cps
Dysprosium	156-1	83	60	77	73	16.39	cps
Dysprosium	156-2	17	17	27	20	28.86	cps
Erbium	164-1	157	153	113	141	17.09	cps
Erbium	164-2	63	37	57	52	26.57	cps
Gadolinium	160-1	160	177	180	172	6.22	cps
Gadolinium	160-2	33	50	43	42	19.87	cps
Holmium	165-1	20189084	18717061	18417785	19107977	4.96	cps
Holmium	165-2	7198257	7173966	7243697	7205307	0.49	cps
Indium	115-1	15633823	14501014	14264016	14799618	4.95	cps
Indium	115-2	1607442	1541875	1594997	1581438	2.20	cps
Iron	54-2	15903181	16087076	15721601	15903953	1.15	cps
Iron	56-2	292487262	295762822	293071322	293773802	0.59	cps
Iron	57-2	7408903	7490621	7351501	7417008	0.94	cps
Krypton	83-1	357	300	353	337	9.44	cps
Lead	206-1	57323	58933	58866	58374	1.56	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	46072	45874	46128	46025	0.29	cps
Lead	208-1	216379	220445	219714	218846	0.99	cps
Lithium	6-1	8872078	8404043	8419527	8565216	3.10	cps
Magnesium	24-2	25021015	24894079	24741353	24885482	0.56	cps
Manganese	55-2	12149	12079	12272	12166	0.80	cps
Molybdenum	94-1	9174313	9286619	9191637	9217523	0.66	cps
Molybdenum	95-1	15818515	16052164	16179743	16016807	1.14	cps
Molybdenum	96-1	17381691	17270921	17613465	17422026	1.00	cps
Molybdenum	97-1	9967864	9903506	10202217	10024529	1.57	cps
Molybdenum	98-1	25783171	25997577	26014614	25931787	0.50	cps
Neodymium	150-1	70	63	83	72	14.10	cps
Neodymium	150-2	23	27	30	27	12.51	cps
Nickel	60-2	10858	11191	11104	11051	1.57	cps
Phosphorus	31-2	367059	369390	370007	368819	0.42	cps
Potassium	39-2	15123599	15094781	14937076	15051819	0.67	cps
Rhodium	103-1	14514433	13480883	13595620	13863645	4.09	cps
Rhodium	103-2	5656382	5676510	5696778	5676556	0.36	cps
Scandium	45-1	11529725	10834741	10868340	11077602	3.54	cps
Scandium	45-2	224811	224459	225662	224977	0.28	cps
Selenium	82-1	-47	-7	-40	-31	-68.87	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	10	17	3	10	66.70	cps
Silicon	28-1	1002048	997189	1007493	1002244	0.51	cps
Silver	107-1	1613	1680	1500	1598	5.70	cps
Silver	109-1	1397	1407	1447	1417	1.87	cps
Sodium	23-2	52598971	52940779	52489279	52676343	0.45	cps
Strontium	86-1	172152	176849	178047	175683	1.77	cps
Strontium	88-1	1546483	1589159	1601999	1579214	1.84	cps
Sulfur	34-1	7891038	7792484	7742715	7808746	0.97	cps
Terbium	159-1	20698465	19488666	19399600	19862244	3.65	cps
Terbium	159-2	6937593	6994948	6797645	6910062	1.47	cps
Thallium	203-1	1277	1427	1817	1507	18.50	cps
Thallium	205-1	3167	3631	3901	3566	10.40	cps
Tin	118-1	4771	5118	4901	4930	3.55	cps
Titanium	47-1	5273171	5352924	5439030	5355042	1.55	cps
Uranium	238-1	787	823	843	818	3.51	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:54:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	517	473	493	494	4.39	cps
Ytterbium	172-1	157	123	113	131	17.30	cps
Ytterbium	172-2	63	67	67	66	2.94	cps
Ytterbium	176-1	1860	1687	1737	1761	5.07	cps
Ytterbium	176-2	300	320	337	319	5.76	cps
Yttrium	89-1	28535014	26965623	26990590	27497075	3.27	cps
Yttrium	89-2	2097345	2058664	2068411	2074807	0.97	cps
Zinc	66-2	7315	7018	7068	7134	2.23	cps
Zirconium	90-1	1733	1733	1690	1719	1.46	cps
Zirconium	91-1	327	323	370	340	7.66	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7193168	7099874	7075542	7122862	0.87	cps
Antimony	121-1	345364	349681	353169	349405	1.12	cps
Arsenic	75-2	7992	8119	7602	7905	3.41	cps
Barium	135-1	82851	83693	84622	83722	1.06	cps
Barium	137-1	143399	147046	146527	145658	1.35	cps
Beryllium	9-1	128012	129996	128444	128817	0.81	cps
Bismuth	209-1	11176586	10940487	11183837	11100303	1.25	cps
Bismuth	209-2	5066891	5112523	5029558	5069657	0.82	cps
Bromine	81-1	5715	6255	6328	6099	5.49	cps
Cadmium	108-1	10841	10564	10594	10666	1.42	cps
Cadmium	106-1	14014	14074	13914	14001	0.58	cps
Cadmium	111-1	85069	85593	86526	85729	0.86	cps
Calcium	43-1	5702841	5789850	5673675	5722122	1.06	cps
Calcium	44-1	93107429	93152752	92955119	93071766	0.11	cps
Carbon	12-1	52774528	54527928	54655228	53985894	1.95	cps
Carbon	12-2	362334	361954	361636	361975	0.10	cps
Chlorine	35-1	93502669	98580719	100008949	97364112	3.51	cps
Chlorine	35-2	451855	451203	455910	452989	0.56	cps
Chromium	52-2	159147	160613	162811	160857	1.15	cps
Cobalt	59-2	160709	161315	161329	161118	0.22	cps
Copper	63-2	166779	167562	166118	166820	0.43	cps
Dysprosium	156-1	70	100	50	73	34.32	cps
Dysprosium	156-2	57	27	33	39	40.51	cps
Erbium	164-1	160	173	183	172	6.80	cps
Erbium	164-2	57	53	57	56	3.47	cps
Gadolinium	160-1	137	167	170	158	11.63	cps
Gadolinium	160-2	47	50	57	51	9.96	cps
Holmium	165-1	18796972	19030827	19155313	18994371	0.96	cps
Holmium	165-2	7260506	7221328	7297098	7259644	0.52	cps
Indium	115-1	14812455	14655522	14723732	14730570	0.53	cps
Indium	115-2	1653435	1633711	1629502	1638883	0.78	cps
Iron	54-2	16687413	16607129	16559618	16618054	0.39	cps
Iron	56-2	307803629	305771895	301844456	305139993	0.99	cps
Iron	57-2	7653686	7577037	7722691	7651138	0.95	cps
Krypton	83-1	277	283	277	279	1.38	cps
Lead	206-1	309943	314306	312931	312393	0.71	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	260468	260371	259344	260061	0.24	cps
Lead	208-1	1199348	1209465	1215397	1208070	0.67	cps
Lithium	6-1	8638275	8293689	8306303	8412755	2.32	cps
Magnesium	24-2	25786905	25181964	25226530	25398466	1.33	cps
Manganese	55-2	45238	44783	45298	45106	0.62	cps
Molybdenum	94-1	9690633	9826086	9727658	9748125	0.72	cps
Molybdenum	95-1	16822254	17045416	16719572	16862414	0.99	cps
Molybdenum	96-1	18121868	18334331	18051926	18169375	0.81	cps
Molybdenum	97-1	10542876	10481167	10484970	10503004	0.33	cps
Molybdenum	98-1	27131755	27119481	27275070	27175436	0.32	cps
Neodymium	150-1	130	57	100	96	38.58	cps
Neodymium	150-2	10	23	23	19	40.75	cps
Nickel	60-2	52583	52282	51854	52240	0.70	cps
Phosphorus	31-2	384053	382721	383575	383450	0.18	cps
Potassium	39-2	15887542	15469901	15600244	15652563	1.37	cps
Rhodium	103-1	13908495	13464495	13756532	13709841	1.65	cps
Rhodium	103-2	5765074	5739275	5733814	5746054	0.29	cps
Scandium	45-1	11068882	10910051	11003241	10994058	0.73	cps
Scandium	45-2	228726	227205	231255	229062	0.89	cps
Selenium	82-1	5071	5268	5078	5139	2.17	cps
Selenium	77-2	77	127	90	98	26.48	cps
Selenium	78-2	377	267	337	327	17.05	cps
Silicon	28-1	1021497	1030312	1027209	1026339	0.44	cps
Silver	107-1	380417	388037	389975	386143	1.31	cps
Silver	109-1	365615	372483	368581	368893	0.93	cps
Sodium	23-2	54787568	54438874	54287316	54504586	0.47	cps
Strontium	86-1	181597	185405	185036	184013	1.14	cps
Strontium	88-1	1619604	1675915	1651182	1648900	1.71	cps
Sulfur	34-1	8250877	8192721	8132155	8191918	0.72	cps
Terbium	159-1	19489428	19315901	19373018	19392782	0.46	cps
Terbium	159-2	6969874	6934673	7008196	6970914	0.53	cps
Thallium	203-1	311922	316283	318426	315544	1.05	cps
Thallium	205-1	747800	754012	761881	754564	0.94	cps
Tin	118-1	4211	4007	4461	4226	5.38	cps
Titanium	47-1	5522398	5685325	5582789	5596837	1.47	cps
Uranium	238-1	890	890	870	883	1.31	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 12:57:49	DataFile Name :	015ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63567	63115	63306	63329	0.36	cps
Ytterbium	172-1	103	140	120	121	15.16	cps
Ytterbium	172-2	40	57	30	42	31.91	cps
Ytterbium	176-1	1703	1707	1720	1710	0.52	cps
Ytterbium	176-2	353	367	383	368	4.09	cps
Yttrium	89-1	27248974	27116162	27602468	27322535	0.92	cps
Yttrium	89-2	2132882	2129712	2106566	2123053	0.68	cps
Zinc	66-2	19610	19974	19874	19820	0.95	cps
Zirconium	90-1	1287	1263	1350	1300	3.45	cps
Zirconium	91-1	307	320	373	333	10.58	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3763862	3711136	3773573	3749524	0.90	cps
Antimony	121-1	7930877	8027619	7966222	7974906	0.61	cps
Arsenic	75-2	178120	177257	174229	176536	1.16	cps
Barium	135-1	9583480	9663649	9459569	9568899	1.07	cps
Barium	137-1	16464958	16378187	16776408	16539851	1.27	cps
Beryllium	9-1	2910114	2999355	3050456	2986641	2.38	cps
Bismuth	209-1	10886758	10542559	10799237	10742851	1.67	cps
Bismuth	209-2	4897807	4826511	4768993	4831103	1.34	cps
Bromine	81-1	5274	5248	5334	5285	0.84	cps
Cadmium	108-1	152810	153039	153036	152962	0.09	cps
Cadmium	106-1	221131	220802	226420	222784	1.42	cps
Cadmium	111-1	1933508	1967062	1938610	1946393	0.93	cps
Calcium	43-1	13250886	13307612	13116804	13225101	0.74	cps
Calcium	44-1	210947197	217653510	214152690	214251132	1.57	cps
Carbon	12-1	7078415	7113476	7270463	7154118	1.43	cps
Carbon	12-2	54611	53942	53841	54131	0.77	cps
Chlorine	35-1	5905612	5580695	5305726	5597344	5.36	cps
Chlorine	35-2	20451	19503	18776	19577	4.29	cps
Chromium	52-2	2004546	2028955	2008053	2013851	0.66	cps
Cobalt	59-2	3663922	3651368	3643175	3652821	0.29	cps
Copper	63-2	27473506	26930190	27527336	27310344	1.21	cps
Dysprosium	156-1	373	450	440	421	9.90	cps
Dysprosium	156-2	77	120	110	102	22.19	cps
Erbium	164-1	467	407	453	442	7.12	cps
Erbium	164-2	143	137	170	150	11.76	cps
Gadolinium	160-1	433	387	403	408	5.80	cps
Gadolinium	160-2	167	187	153	169	9.93	cps
Holmium	165-1	18299857	18358628	18249461	18302649	0.30	cps
Holmium	165-2	7083253	7185012	7069934	7112733	0.89	cps
Indium	115-1	14316458	14153921	14162698	14211026	0.64	cps
Indium	115-2	1555728	1570702	1505658	1544029	2.21	cps
Iron	54-2	19521302	19386534	19658035	19521957	0.70	cps
Iron	56-2	355398848	363850061	358595301	359281404	1.19	cps
Iron	57-2	9006501	9096973	9013904	9039126	0.56	cps
Krypton	83-1	333	343	370	349	5.43	cps
Lead	206-1	30927175	30908899	30896405	30910826	0.05	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26542556	26686206	26719469	26649410	0.35	cps
Lead	208-1	121630011	122079112	123054077	122254400	0.60	cps
Lithium	6-1	8080961	7940882	8182281	8068041	1.50	cps
Magnesium	24-2	64710474	63381276	63370579	63820776	1.21	cps
Manganese	55-2	8018723	8139063	7984819	8047535	1.01	cps
Molybdenum	94-1	28794053	29553650	29145011	29164238	1.30	cps
Molybdenum	95-1	41397957	41686527	41691787	41592090	0.40	cps
Molybdenum	96-1	45669406	45065314	46122608	45619109	1.16	cps
Molybdenum	97-1	25733332	25471170	25873570	25692691	0.79	cps
Molybdenum	98-1	67318019	67066862	67368079	67250987	0.24	cps
Neodymium	150-1	747	717	847	770	8.84	cps
Neodymium	150-2	53	63	73	63	15.79	cps
Nickel	60-2	944880	935053	949446	943126	0.78	cps
Phosphorus	31-2	37047	37198	37074	37106	0.22	cps
Potassium	39-2	18965852	18787498	18698163	18817171	0.72	cps
Rhodium	103-1	13186325	12768150	12972928	12975801	1.61	cps
Rhodium	103-2	5457585	5470222	5396710	5441505	0.72	cps
Scandium	45-1	10651784	10642451	10362683	10552306	1.56	cps
Scandium	45-2	223363	225411	223590	224121	0.50	cps
Selenium	82-1	117164	117725	118388	117759	0.52	cps
Selenium	77-2	2080	2340	2287	2236	6.14	cps
Selenium	78-2	7652	7999	7889	7847	2.26	cps
Silicon	28-1	6965901	7234358	7123795	7108018	1.90	cps
Silver	107-1	9761820	9711282	9813949	9762350	0.53	cps
Silver	109-1	9074883	9323197	9189399	9195826	1.35	cps
Sodium	23-2	127536931	127759275	125828788	127041665	0.83	cps
Strontium	86-1	2704748	2739242	2680384	2708125	1.09	cps
Strontium	88-1	23099945	22914363	23282475	23098928	0.80	cps
Sulfur	34-1	1460776	1492838	1454105	1469240	1.41	cps
Terbium	159-1	19283933	18802443	18927049	19004475	1.31	cps
Terbium	159-2	6896460	6872883	6751658	6840334	1.14	cps
Thallium	203-1	7643084	7481068	7531692	7551948	1.10	cps
Thallium	205-1	17825105	18120162	18502878	18149382	1.87	cps
Tin	118-1	6451894	6379096	6522706	6451232	1.11	cps
Titanium	47-1	12932408	13017495	13331315	13093739	1.60	cps
Uranium	238-1	25049370	25333704	25399673	25260915	0.74	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:00:52	DataFile Name :	016CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1576781	1585499	1597145	1586475	0.64	cps
Ytterbium	172-1	460	487	447	464	4.39	cps
Ytterbium	172-2	177	257	210	214	18.74	cps
Ytterbium	176-1	37914	38279	38636	38276	0.94	cps
Ytterbium	176-2	14912	13937	15039	14629	4.12	cps
Yttrium	89-1	26431508	26148174	25947996	26175893	0.93	cps
Yttrium	89-2	2093314	2080646	2048069	2074009	1.13	cps
Zinc	66-2	2956796	2972406	2980151	2969784	0.40	cps
Zirconium	90-1	14387992	14791581	14414542	14531372	1.55	cps
Zirconium	91-1	3223980	3285539	3299612	3269710	1.23	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110	140	120	123	12.39	cps
Antimony	121-1	663	620	633	639	3.47	cps
Arsenic	75-2	0	0	7	2	173.21	cps
Barium	135-1	73	100	67	80	22.05	cps
Barium	137-1	180	147	93	140	31.23	cps
Beryllium	9-1	910	811	791	837	7.59	cps
Bismuth	209-1	12687735	12449702	12250210	12462549	1.76	cps
Bismuth	209-2	5639684	5667635	5678338	5661886	0.35	cps
Bromine	81-1	4557	4497	4571	4542	0.86	cps
Cadmium	108-1	3	30	17	17	80.01	cps
Cadmium	106-1	7846	7896	7849	7863	0.36	cps
Cadmium	111-1	5576	5553	5526	5552	0.45	cps
Calcium	43-1	463	477	430	457	5.26	cps
Calcium	44-1	32774	31454	32607	32278	2.23	cps
Carbon	12-1	6046317	6033953	5968175	6016149	0.70	cps
Carbon	12-2	39466	39192	39373	39344	0.35	cps
Chlorine	35-1	1711772	1624496	1530929	1622399	5.57	cps
Chlorine	35-2	5631	5765	5878	5758	2.15	cps
Chromium	52-2	973	1070	1053	1032	5.01	cps
Cobalt	59-2	80	83	117	93	21.73	cps
Copper	63-2	4104	3974	3974	4017	1.87	cps
Dysprosium	156-1	17	10	7	11	45.82	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	80	73	77	77	4.35	cps
Erbium	164-2	37	17	30	28	36.66	cps
Gadolinium	160-1	110	123	133	122	9.58	cps
Gadolinium	160-2	27	30	20	26	19.92	cps
Holmium	165-1	20253311	19486379	19470456	19736715	2.27	cps
Holmium	165-2	7559469	7560559	7510926	7543651	0.38	cps
Indium	115-1	16666898	16285347	15879046	16277097	2.42	cps
Indium	115-2	1768221	1766806	1766136	1767054	0.06	cps
Iron	54-2	817	750	703	757	7.53	cps
Iron	56-2	10504	10647	10377	10510	1.29	cps
Iron	57-2	267	293	183	248	23.16	cps
Krypton	83-1	347	317	263	309	13.66	cps
Lead	206-1	3651	3484	3644	3593	2.63	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3167	2990	3074	3077	2.87	cps
Lead	208-1	14703	14047	14006	14252	2.75	cps
Lithium	6-1	9517773	9066234	9080038	9221348	2.78	cps
Magnesium	24-2	1467	1393	1473	1445	3.07	cps
Manganese	55-2	173	140	150	154	11.08	cps
Molybdenum	94-1	680	617	663	653	5.02	cps
Molybdenum	95-1	610	427	403	480	23.58	cps
Molybdenum	96-1	703	563	470	579	20.29	cps
Molybdenum	97-1	393	243	270	302	26.48	cps
Molybdenum	98-1	913	587	677	726	23.26	cps
Neodymium	150-1	30	10	10	17	69.28	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	567	567	613	582	4.63	cps
Phosphorus	31-2	80	107	113	100	17.64	cps
Potassium	39-2	16733	16406	16510	16550	1.01	cps
Rhodium	103-1	15721478	15366128	15459801	15515802	1.19	cps
Rhodium	103-2	6493436	6475338	6408284	6459019	0.69	cps
Scandium	45-1	11903849	11495228	11193861	11530979	3.09	cps
Scandium	45-2	238698	240262	237524	238828	0.58	cps
Selenium	82-1	-120	67	-10	-21	-444.43	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	10	7	8	24.71	cps
Silicon	28-1	640066	639586	637348	639000	0.23	cps
Silver	107-1	613	530	597	580	7.60	cps
Silver	109-1	510	427	367	434	16.57	cps
Sodium	23-2	77025	74784	74921	75577	1.66	cps
Strontium	86-1	510	497	543	517	4.65	cps
Strontium	88-1	467	463	447	459	2.34	cps
Sulfur	34-1	794236	792681	794624	793847	0.13	cps
Terbium	159-1	20305190	20134037	20267002	20235410	0.44	cps
Terbium	159-2	7314061	7324170	7256596	7298275	0.50	cps
Thallium	203-1	730	827	817	791	6.72	cps
Thallium	205-1	1860	1980	1827	1889	4.27	cps
Tin	118-1	2050	2234	2090	2125	4.54	cps
Titanium	47-1	397	353	303	351	13.30	cps
Uranium	238-1	120	107	97	108	10.86	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:07:19	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	17	10	16	32.73	cps
Ytterbium	172-1	107	103	107	106	1.83	cps
Ytterbium	172-2	53	43	43	47	12.37	cps
Ytterbium	176-1	1954	1977	1913	1948	1.64	cps
Ytterbium	176-2	303	400	367	357	13.77	cps
Yttrium	89-1	29107087	28201123	28057046	28455085	2.00	cps
Yttrium	89-2	2217029	2236739	2185684	2213151	1.16	cps
Zinc	66-2	247	333	270	283	15.83	cps
Zirconium	90-1	1117	1090	1243	1150	7.12	cps
Zirconium	91-1	243	240	237	240	1.39	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1119341	1180186	1118715	1139414	3.10	cps
Antimony	121-1	40921	41613	41743	41426	1.07	cps
Arsenic	75-2	16954	16843	16980	16926	0.43	cps
Barium	135-1	2804625	2844943	2850787	2833452	0.89	cps
Barium	137-1	4841018	4860664	4905870	4869184	0.68	cps
Beryllium	9-1	25311	25089	25083	25161	0.52	cps
Bismuth	209-1	12539607	12205765	12164311	12303228	1.67	cps
Bismuth	209-2	5746520	5198740	5597640	5514300	5.14	cps
Bromine	81-1	15822	16844	17421	16696	4.85	cps
Cadmium	108-1	5855	5948	5648	5817	2.64	cps
Cadmium	106-1	17338	16523	16770	16877	2.47	cps
Cadmium	111-1	89867	88483	90235	89528	1.03	cps
Calcium	43-1	9265118	9401100	9248202	9304806	0.90	cps
Calcium	44-1	153245711	149222841	148803728	150424093	1.63	cps
Carbon	12-1	9508055	9770160	9673285	9650500	1.37	cps
Carbon	12-2	62114	62810	62716	62547	0.60	cps
Chlorine	35-1	157461128	168455764	174975137	166964010	5.30	cps
Chlorine	35-2	773257	792771	793048	786359	1.44	cps
Chromium	52-2	256441	257207	256471	256706	0.17	cps
Cobalt	59-2	152716	153376	152638	152910	0.27	cps
Copper	63-2	2426968	2374719	2335850	2379179	1.92	cps
Dysprosium	156-1	152889	153591	153904	153461	0.34	cps
Dysprosium	156-2	53262	53577	52864	53234	0.67	cps
Erbium	164-1	126498	126639	126858	126665	0.14	cps
Erbium	164-2	46732	46508	47371	46870	0.96	cps
Gadolinium	160-1	141157	140006	139628	140264	0.57	cps
Gadolinium	160-2	63222	62978	63004	63068	0.21	cps
Holmium	165-1	20367438	19409315	19927956	19901569	2.41	cps
Holmium	165-2	7815578	7067311	7542309	7475066	5.07	cps
Indium	115-1	16237477	15647403	15728784	15871221	2.01	cps
Indium	115-2	1795348	1607559	1727095	1710001	5.56	cps
Iron	54-2	6265642	6222299	6185042	6224328	0.65	cps
Iron	56-2	114254432	114302042	114113022	114223165	0.09	cps
Iron	57-2	2944492	2931103	2866009	2913868	1.44	cps
Krypton	83-1	537	603	513	551	8.47	cps
Lead	206-1	20749792	20832399	20560482	20714224	0.67	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17305998	17464471	17420646	17397038	0.47	cps
Lead	208-1	81020147	81083323	81086785	81063418	0.05	cps
Lithium	6-1	9256185	9038471	9146113	9146923	1.19	cps
Magnesium	24-2	3287450	3351236	3351567	3330084	1.11	cps
Manganese	55-2	10731987	10632454	10656136	10673526	0.49	cps
Molybdenum	94-1	56832	58097	57190	57373	1.14	cps
Molybdenum	95-1	20672	20652	20262	20529	1.13	cps
Molybdenum	96-1	29157	29324	29632	29371	0.82	cps
Molybdenum	97-1	12462	12753	12636	12617	1.16	cps
Molybdenum	98-1	33206	33721	32642	33190	1.63	cps
Neodymium	150-1	223225	223311	224203	223579	0.24	cps
Neodymium	150-2	59900	60468	59354	59907	0.93	cps
Nickel	60-2	157178	155968	154772	155973	0.77	cps
Phosphorus	31-2	11491	11908	11728	11709	1.79	cps
Potassium	39-2	984279	991959	981386	985875	0.55	cps
Rhodium	103-1	15174507	14749571	14600963	14841680	2.01	cps
Rhodium	103-2	6381820	5856351	6207580	6148584	4.35	cps
Scandium	45-1	11878937	11676332	11552659	11702643	1.41	cps
Scandium	45-2	251275	223250	243418	239314	6.04	cps
Selenium	82-1	3177	3187	3130	3165	0.96	cps
Selenium	77-2	337	383	357	359	6.52	cps
Selenium	78-2	393	340	390	374	7.98	cps
Silicon	28-1	135965361	138646201	139101525	137904362	1.23	cps
Silver	107-1	164566	163587	165611	164588	0.61	cps
Silver	109-1	155621	156275	154087	155328	0.72	cps
Sodium	23-2	396650	401176	397744	398523	0.59	cps
Strontium	86-1	3380532	3321658	3277681	3326624	1.55	cps
Strontium	88-1	29075906	29220288	28416727	28904307	1.48	cps
Sulfur	34-1	885273	888826	886259	886786	0.21	cps
Terbium	159-1	20842165	20102052	20020745	20321654	2.23	cps
Terbium	159-2	7529777	6762680	7259151	7183869	5.42	cps
Thallium	203-1	11529	12102	12289	11973	3.31	cps
Thallium	205-1	27409	28996	29554	28653	3.88	cps
Tin	118-1	190595	189979	190484	190353	0.17	cps
Titanium	47-1	650346	651516	656835	652899	0.53	cps
Uranium	238-1	202500	205314	202750	203521	0.77	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1177-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GW9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:10:39	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	216377	220507	219749	218877	1.00	cps
Ytterbium	172-1	38970	39151	38656	38926	0.64	cps
Ytterbium	172-2	17592	17512	17488	17531	0.31	cps
Ytterbium	176-1	26163	26206	26293	26220	0.25	cps
Ytterbium	176-2	11755	11819	11028	11534	3.81	cps
Yttrium	89-1	31634635	30186344	29917500	30579493	3.02	cps
Yttrium	89-2	2445634	2179409	2383709	2336251	5.96	cps
Zinc	66-2	2892217	2886801	2864740	2881253	0.51	cps
Zirconium	90-1	124849	126584	124587	125340	0.87	cps
Zirconium	91-1	27394	27687	27901	27661	0.92	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1746109	1737788	1746329	1743409	0.28	cps
Antimony	121-1	66802	66434	66923	66719	0.38	cps
Arsenic	75-2	30426	30807	30667	30633	0.63	cps
Barium	135-1	11243330	11206024	11011643	11153666	1.12	cps
Barium	137-1	19322899	19725472	19241546	19429972	1.33	cps
Beryllium	9-1	23204	23417	23096	23239	0.70	cps
Bismuth	209-1	12101827	12144962	12318499	12188429	0.94	cps
Bismuth	209-2	5576351	5286161	5537993	5466835	2.88	cps
Bromine	81-1	18786	20599	20802	20062	5.53	cps
Cadmium	108-1	23637	23567	23099	23434	1.25	cps
Cadmium	106-1	40650	40656	41151	40819	0.70	cps
Cadmium	111-1	361773	360963	361996	361578	0.15	cps
Calcium	43-1	8110788	8043335	7974666	8042930	0.85	cps
Calcium	44-1	130226071	131607698	129149011	130327594	0.95	cps
Carbon	12-1	9759555	9885148	9987226	9877309	1.15	cps
Carbon	12-2	64671	64547	63195	64138	1.28	cps
Chlorine	35-1	179991724	189770677	193266284	187676228	3.67	cps
Chlorine	35-2	857186	860895	869472	862518	0.73	cps
Chromium	52-2	186202	185668	187440	186437	0.49	cps
Cobalt	59-2	296529	297497	298647	297558	0.36	cps
Copper	63-2	3908618	3955584	3914907	3926370	0.65	cps
Dysprosium	156-1	198952	202290	200209	200484	0.84	cps
Dysprosium	156-2	70789	70789	68612	70063	1.79	cps
Erbium	164-1	162060	163195	159854	161703	1.05	cps
Erbium	164-2	60744	59891	60527	60387	0.73	cps
Gadolinium	160-1	182974	179479	180295	180916	1.01	cps
Gadolinium	160-2	81674	82664	80615	81651	1.26	cps
Holmium	165-1	19327954	19778474	19800293	19635573	1.36	cps
Holmium	165-2	7528474	7201175	7488501	7406050	2.41	cps
Indium	115-1	15891871	16014169	16043328	15983123	0.50	cps
Indium	115-2	1743075	1658616	1750188	1717293	2.97	cps
Iron	54-2	19254810	19170786	19220135	19215244	0.22	cps
Iron	56-2	356084968	353670875	353693821	354483221	0.39	cps
Iron	57-2	8947265	8902495	8947217	8932326	0.29	cps
Krypton	83-1	513	687	607	602	14.41	cps
Lead	206-1	24561190	24243673	24460033	24421632	0.66	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	20547285	20580606	20582706	20570199	0.10	cps
Lead	208-1	95820293	95273226	95952839	95682119	0.38	cps
Lithium	6-1	8884337	9217571	9313809	9138572	2.47	cps
Magnesium	24-2	4061801	3923320	3904203	3963108	2.17	cps
Manganese	55-2	11997135	11920464	11972647	11963415	0.33	cps
Molybdenum	94-1	65071	66063	64696	65277	1.08	cps
Molybdenum	95-1	46063	45942	45939	45981	0.15	cps
Molybdenum	96-1	56196	55882	56260	56113	0.36	cps
Molybdenum	97-1	28923	28232	28660	28605	1.22	cps
Molybdenum	98-1	72749	73403	74184	73445	0.98	cps
Neodymium	150-1	302693	303183	299294	301724	0.70	cps
Neodymium	150-2	80935	80965	80855	80919	0.07	cps
Nickel	60-2	1099489	1095432	1096155	1097025	0.20	cps
Phosphorus	31-2	16306	16066	15672	16014	2.00	cps
Potassium	39-2	1297764	1290333	1296642	1294913	0.31	cps
Rhodium	103-1	14715717	14772164	14869383	14785755	0.53	cps
Rhodium	103-2	6142312	5968999	6114640	6075317	1.53	cps
Scandium	45-1	11797367	11687799	11914627	11799931	0.96	cps
Scandium	45-2	244275	231080	239514	238290	2.80	cps
Selenium	82-1	3194	3381	3431	3335	3.74	cps
Selenium	77-2	420	387	440	416	6.48	cps
Selenium	78-2	423	367	417	402	7.70	cps
Silicon	28-1	78356856	79932860	78526329	78938682	1.10	cps
Silver	107-1	199130	199292	200702	199708	0.43	cps
Silver	109-1	187647	189090	188603	188447	0.39	cps
Sodium	23-2	591965	595879	593290	593711	0.34	cps
Strontium	86-1	3098583	3032219	3140833	3090545	1.77	cps
Strontium	88-1	26879896	26328118	26355454	26521156	1.17	cps
Sulfur	34-1	931405	941082	954049	942179	1.21	cps
Terbium	159-1	20127310	20136594	20291880	20185261	0.46	cps
Terbium	159-2	7307601	6999090	7299389	7202026	2.44	cps
Thallium	203-1	18951	19501	19708	19387	2.02	cps
Thallium	205-1	45155	45954	46874	45995	1.87	cps
Tin	118-1	411420	410544	410488	410817	0.13	cps
Titanium	47-1	949801	942387	951372	947853	0.51	cps
Uranium	238-1	242150	240582	238633	240455	0.73	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1178-01A	Instrumnet Name :	P8
Client Sample ID :	MH2GX0A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:14:50	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	365057	368840	370662	368186	0.78	cps
Ytterbium	172-1	49385	49087	48776	49083	0.62	cps
Ytterbium	172-2	22242	22876	21678	22266	2.69	cps
Ytterbium	176-1	32326	32607	32520	32484	0.44	cps
Ytterbium	176-2	14451	14365	14438	14418	0.32	cps
Yttrium	89-1	30859453	30870769	31813432	31181218	1.76	cps
Yttrium	89-2	2421463	2328244	2417102	2388936	2.20	cps
Zinc	66-2	3722532	3833096	3718668	3758099	1.73	cps
Zirconium	90-1	105985	106681	107624	106763	0.77	cps
Zirconium	91-1	23834	24475	24041	24116	1.36	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	63	90	87	80	18.17	cps
Antimony	121-1	117	123	140	127	9.49	cps
Arsenic	75-2	7	20	0	9	114.55	cps
Barium	135-1	50	83	103	79	34.16	cps
Barium	137-1	140	130	107	126	13.62	cps
Beryllium	9-1	460	510	501	490	5.45	cps
Bismuth	209-1	10863462	12310310	12111873	11761881	6.67	cps
Bismuth	209-2	5583388	5624053	5604913	5604118	0.36	cps
Bromine	81-1	4874	4607	4654	4712	3.02	cps
Cadmium	108-1	27	37	27	30	19.24	cps
Cadmium	106-1	6945	7565	7952	7488	6.79	cps
Cadmium	111-1	4890	5310	5585	5261	6.65	cps
Calcium	43-1	487	507	407	467	11.34	cps
Calcium	44-1	31758	31391	31458	31536	0.62	cps
Carbon	12-1	5861273	5916810	5938433	5905505	0.67	cps
Carbon	12-2	38801	38116	37354	38090	1.90	cps
Chlorine	35-1	3898801	3639708	3465990	3668166	5.94	cps
Chlorine	35-2	13777	13206	12953	13312	3.17	cps
Chromium	52-2	870	943	1017	943	7.77	cps
Cobalt	59-2	107	83	77	89	17.72	cps
Copper	63-2	3424	3537	3367	3443	2.52	cps
Dysprosium	156-1	20	20	3	14	66.64	cps
Dysprosium	156-2	10	0	3	4	114.60	cps
Erbium	164-1	87	137	97	107	24.80	cps
Erbium	164-2	43	43	40	42	4.55	cps
Gadolinium	160-1	130	103	130	121	12.71	cps
Gadolinium	160-2	20	27	13	20	33.35	cps
Holmium	165-1	17353067	19378846	19321544	18684486	6.17	cps
Holmium	165-2	7458484	7576075	7509909	7514823	0.78	cps
Indium	115-1	14230652	15437642	15718794	15129029	5.23	cps
Indium	115-2	1779595	1771642	1795272	1782170	0.67	cps
Iron	54-2	703	690	660	684	3.24	cps
Iron	56-2	10307	9667	9500	9825	4.34	cps
Iron	57-2	213	240	183	212	13.36	cps
Krypton	83-1	307	297	377	327	13.35	cps
Lead	206-1	3007	3164	3124	3098	2.63	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2677	2537	2694	2636	3.27	cps
Lead	208-1	12229	12302	11892	12141	1.80	cps
Lithium	6-1	8343571	9021798	9143483	8836284	4.88	cps
Magnesium	24-2	1370	1327	1393	1363	2.48	cps
Manganese	55-2	237	233	130	200	30.32	cps
Molybdenum	94-1	377	373	360	370	2.38	cps
Molybdenum	95-1	147	137	183	156	15.80	cps
Molybdenum	96-1	187	277	210	224	20.81	cps
Molybdenum	97-1	80	87	103	90	13.35	cps
Molybdenum	98-1	247	250	243	247	1.35	cps
Neodymium	150-1	3	10	7	7	50.03	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	617	570	553	580	5.66	cps
Phosphorus	31-2	67	80	87	78	13.09	cps
Potassium	39-2	14464	15091	14808	14788	2.12	cps
Rhodium	103-1	13453285	15050751	15406396	14636810	7.11	cps
Rhodium	103-2	6438582	6393302	6433576	6421820	0.39	cps
Scandium	45-1	10348564	11388537	11601654	11112918	6.03	cps
Scandium	45-2	240833	241559	239522	240638	0.43	cps
Selenium	82-1	-3	-33	-90	-42	-104.25	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	17	3	11	62.48	cps
Silicon	28-1	650024	643746	642919	645563	0.60	cps
Silver	107-1	393	393	393	393	0.00	cps
Silver	109-1	287	230	277	264	11.44	cps
Sodium	23-2	64070	63189	63417	63559	0.72	cps
Strontium	86-1	570	467	580	539	11.64	cps
Strontium	88-1	413	493	463	457	8.85	cps
Sulfur	34-1	801939	804757	806736	804477	0.30	cps
Terbium	159-1	18058650	19451948	20104590	19205063	5.44	cps
Terbium	159-2	7214004	7219515	7408205	7280574	1.52	cps
Thallium	203-1	683	660	673	672	1.74	cps
Thallium	205-1	1553	1467	1547	1522	3.17	cps
Tin	118-1	1970	1920	1997	1962	1.98	cps
Titanium	47-1	300	300	260	287	8.06	cps
Uranium	238-1	40	33	27	33	20.00	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BL	Instrumnet Name :	P8
Client Sample ID :	PBS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:22:47	DataFile Name :	022CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	20	23	20	16.65	cps
Ytterbium	172-1	77	100	160	112	38.31	cps
Ytterbium	172-2	30	43	33	36	19.51	cps
Ytterbium	176-1	1830	1944	2007	1927	4.65	cps
Ytterbium	176-2	277	390	370	346	17.51	cps
Yttrium	89-1	25615652	27558259	28245612	27139841	5.03	cps
Yttrium	89-2	2229964	2263090	2228083	2240379	0.88	cps
Zinc	66-2	233	297	273	268	11.96	cps
Zirconium	90-1	810	883	1033	909	12.53	cps
Zirconium	91-1	160	160	183	168	8.03	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3274	3400	3227	3300	2.72	cps
Antimony	121-1	64659	64458	64759	64625	0.24	cps
Arsenic	75-2	793	733	803	777	4.88	cps
Barium	135-1	74369	75593	75931	75298	1.09	cps
Barium	137-1	130644	132471	131185	131433	0.71	cps
Beryllium	9-1	13783	13721	13761	13755	0.23	cps
Bismuth	209-1	12116603	12359152	12290629	12255461	1.02	cps
Bismuth	209-2	5550786	5554413	5628784	5577994	0.79	cps
Bromine	81-1	4647	4611	4698	4652	0.94	cps
Cadmium	108-1	663	550	607	607	9.34	cps
Cadmium	106-1	8896	8733	9040	8890	1.73	cps
Cadmium	111-1	13545	13914	14242	13901	2.51	cps
Calcium	43-1	69791	70535	70264	70197	0.54	cps
Calcium	44-1	1056740	1076058	1059652	1064150	0.98	cps
Carbon	12-1	6318796	6366188	6324486	6336490	0.41	cps
Carbon	12-2	40994	40412	41308	40905	1.11	cps
Chlorine	35-1	3779954	3854570	3868246	3834257	1.24	cps
Chlorine	35-2	16162	16123	16666	16317	1.86	cps
Chromium	52-2	17007	16199	16506	16571	2.46	cps
Cobalt	59-2	15368	15826	15669	15621	1.49	cps
Copper	63-2	30252	29364	29721	29779	1.50	cps
Dysprosium	156-1	27	27	37	30	19.24	cps
Dysprosium	156-2	3	3	10	6	69.34	cps
Erbium	164-1	103	127	93	108	15.87	cps
Erbium	164-2	40	53	43	46	15.23	cps
Gadolinium	160-1	143	100	100	114	21.86	cps
Gadolinium	160-2	23	23	33	27	21.65	cps
Holmium	165-1	19253498	19517638	19340149	19370428	0.70	cps
Holmium	165-2	7416905	7593457	7494892	7501751	1.18	cps
Indium	115-1	15657101	16045059	15963969	15888710	1.29	cps
Indium	115-2	1717998	1793015	1767522	1759512	2.17	cps
Iron	54-2	67187	68135	66383	67235	1.30	cps
Iron	56-2	1229361	1214243	1233494	1225699	0.83	cps
Iron	57-2	30693	30543	30593	30610	0.25	cps
Krypton	83-1	317	293	297	302	4.18	cps
Lead	206-1	27579	27382	27008	27323	1.06	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23902	24059	24012	23991	0.34	cps
Lead	208-1	109645	109491	109502	109546	0.08	cps
Lithium	6-1	9183663	9085588	9072901	9114051	0.67	cps
Magnesium	24-2	260177	263001	259430	260869	0.72	cps
Manganese	55-2	3627	3447	3484	3519	2.70	cps
Molybdenum	94-1	67727	68169	68430	68109	0.52	cps
Molybdenum	95-1	81155	81598	82630	81794	0.93	cps
Molybdenum	96-1	90549	91526	91076	91050	0.54	cps
Molybdenum	97-1	50632	51656	50813	51033	1.07	cps
Molybdenum	98-1	128593	131509	131237	130446	1.24	cps
Neodymium	150-1	20	33	20	24	31.49	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	5018	4781	4878	4892	2.43	cps
Phosphorus	31-2	310	297	300	302	2.30	cps
Potassium	39-2	170215	168784	172002	170334	0.95	cps
Rhodium	103-1	15230346	15372071	15046093	15216170	1.07	cps
Rhodium	103-2	6435186	6416861	6433471	6428506	0.16	cps
Scandium	45-1	11534989	11539592	11604306	11559629	0.34	cps
Scandium	45-2	241964	241534	243539	242346	0.44	cps
Selenium	82-1	2410	2330	2830	2524	10.64	cps
Selenium	77-2	57	60	30	49	33.63	cps
Selenium	78-2	167	173	183	174	4.81	cps
Silicon	28-1	918820	914795	896801	910138	1.29	cps
Silver	107-1	41155	40647	41773	41191	1.37	cps
Silver	109-1	37581	39172	38246	38333	2.08	cps
Sodium	23-2	606646	597761	601383	601930	0.74	cps
Strontium	86-1	2405112	2403385	2450534	2419677	1.10	cps
Strontium	88-1	20334471	20753947	20254269	20447562	1.31	cps
Sulfur	34-1	821558	818173	826185	821972	0.49	cps
Terbium	159-1	19728958	20023628	19552347	19768311	1.20	cps
Terbium	159-2	7173674	7371543	7271304	7272174	1.36	cps
Thallium	203-1	31321	30730	31064	31038	0.96	cps
Thallium	205-1	73614	74472	73832	73973	0.60	cps
Tin	118-1	131046	130595	131096	130913	0.21	cps
Titanium	47-1	6568	6718	6655	6647	1.13	cps
Uranium	238-1	92726	94834	94364	93975	1.18	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166302BS	Instrumnet Name :	P8
Client Sample ID :	LCS302	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:26:08	DataFile Name :	023LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	31769	32614	32333	32239	1.34	cps
Ytterbium	172-1	73	83	103	87	17.63	cps
Ytterbium	172-2	57	57	53	56	3.47	cps
Ytterbium	176-1	2140	2090	2100	2110	1.25	cps
Ytterbium	176-2	400	377	410	396	4.32	cps
Yttrium	89-1	28068479	28499932	28233161	28267191	0.77	cps
Yttrium	89-2	2249290	2232527	2230263	2237360	0.46	cps
Zinc	66-2	6795	7045	7085	6975	2.25	cps
Zirconium	90-1	55239	57582	56112	56311	2.10	cps
Zirconium	91-1	12679	12589	12899	12723	1.25	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1745831	1739619	1753633	1746361	0.40	cps
Antimony	121-1	19000	19941	19751	19564	2.54	cps
Arsenic	75-2	22395	21289	22097	21927	2.61	cps
Barium	135-1	929620	942139	941045	937601	0.74	cps
Barium	137-1	1709249	1707702	1728554	1715168	0.68	cps
Beryllium	9-1	7276	7362	7147	7262	1.49	cps
Bismuth	209-1	12367087	12208424	11922114	12165875	1.85	cps
Bismuth	209-2	5562356	5461533	5438884	5487591	1.20	cps
Bromine	81-1	8222	8593	8996	8604	4.50	cps
Cadmium	108-1	167	167	183	172	5.59	cps
Cadmium	106-1	8329	8176	7966	8157	2.24	cps
Cadmium	111-1	6514	6363	6308	6395	1.67	cps
Calcium	43-1	341380	345488	342408	343092	0.62	cps
Calcium	44-1	5711776	5718151	5664838	5698255	0.51	cps
Carbon	12-1	6764127	6946198	7000041	6903455	1.79	cps
Carbon	12-2	44337	44664	44885	44629	0.62	cps
Chlorine	35-1	190148251	208984690	218897470	206010137	7.09	cps
Chlorine	35-2	958065	960269	963823	960719	0.30	cps
Chromium	52-2	211472	213309	213262	212681	0.49	cps
Cobalt	59-2	224299	221944	223460	223234	0.53	cps
Copper	63-2	589878	593144	589227	590750	0.36	cps
Dysprosium	156-1	68313	70484	69415	69404	1.56	cps
Dysprosium	156-2	29068	28744	27769	28527	2.37	cps
Erbium	164-1	66160	67383	67222	66922	0.99	cps
Erbium	164-2	24930	24810	25381	25040	1.20	cps
Gadolinium	160-1	73270	74272	73813	73785	0.68	cps
Gadolinium	160-2	33612	33632	33155	33466	0.81	cps
Holmium	165-1	19778823	19497161	19257355	19511113	1.34	cps
Holmium	165-2	7515765	7491881	7457653	7488433	0.39	cps
Indium	115-1	16328076	15822934	15825733	15992248	1.82	cps
Indium	115-2	1741415	1678549	1724898	1714954	1.90	cps
Iron	54-2	10229255	10226228	10217131	10224205	0.06	cps
Iron	56-2	192123244	189571537	189007371	190234051	0.87	cps
Iron	57-2	4826589	4868687	4754849	4816708	1.19	cps
Krypton	83-1	400	467	317	394	19.05	cps
Lead	206-1	329196	334159	331329	331561	0.75	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	273623	275366	272563	273851	0.52	cps
Lead	208-1	1279234	1295407	1287870	1287504	0.63	cps
Lithium	6-1	9728153	9447441	9491867	9555820	1.58	cps
Magnesium	24-2	3112749	3033313	3029312	3058458	1.54	cps
Manganese	55-2	829779	831306	828288	829791	0.18	cps
Molybdenum	94-1	17137	17154	17171	17154	0.10	cps
Molybdenum	95-1	10791	11245	11568	11201	3.49	cps
Molybdenum	96-1	14224	14307	14281	14271	0.30	cps
Molybdenum	97-1	6518	7342	6992	6951	5.95	cps
Molybdenum	98-1	17761	17985	17781	17843	0.69	cps
Neodymium	150-1	74167	74612	74090	74290	0.38	cps
Neodymium	150-2	19865	20299	19938	20034	1.16	cps
Nickel	60-2	160497	162698	160601	161266	0.77	cps
Phosphorus	31-2	2514	2634	2754	2634	4.56	cps
Potassium	39-2	111318	109437	109558	110105	0.96	cps
Rhodium	103-1	15567395	15197186	15169258	15311280	1.45	cps
Rhodium	103-2	6423459	6160690	6354411	6312853	2.16	cps
Scandium	45-1	12388229	12062567	12199588	12216795	1.34	cps
Scandium	45-2	247663	243425	242493	244527	1.13	cps
Selenium	82-1	213	160	347	240	40.06	cps
Selenium	77-2	143	127	107	126	14.62	cps
Selenium	78-2	113	87	107	102	13.57	cps
Silicon	28-1	82702867	83037547	82947939	82896118	0.21	cps
Silver	107-1	9410	8964	7886	8753	8.95	cps
Silver	109-1	8760	7605	7069	7811	11.06	cps
Sodium	23-2	118771	119884	120095	119583	0.59	cps
Strontium	86-1	301260	303384	300985	301876	0.43	cps
Strontium	88-1	2734052	2714745	2677598	2708798	1.06	cps
Sulfur	34-1	730754	702343	688487	707195	3.05	cps
Terbium	159-1	20555127	20275380	19773473	20201327	1.96	cps
Terbium	159-2	7347072	7388351	7167744	7301055	1.61	cps
Thallium	203-1	3494	3731	3734	3653	3.77	cps
Thallium	205-1	8379	8656	9090	8709	4.11	cps
Tin	118-1	6365	6218	6572	6385	2.78	cps
Titanium	47-1	64477	64357	64725	64520	0.29	cps
Uranium	238-1	23959	24317	23913	24063	0.92	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:29:24	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	210630	209405	209367	209801	0.34	cps
Ytterbium	172-1	19194	19201	18987	19127	0.64	cps
Ytterbium	172-2	8690	8446	8590	8575	1.43	cps
Ytterbium	176-1	13467	13841	13477	13595	1.57	cps
Ytterbium	176-2	5698	5851	5948	5832	2.16	cps
Yttrium	89-1	30693239	29634201	29299505	29875648	2.44	cps
Yttrium	89-2	2349651	2251254	2271014	2290639	2.27	cps
Zinc	66-2	87565	86438	86998	87000	0.65	cps
Zirconium	90-1	28703	29411	28963	29026	1.23	cps
Zirconium	91-1	6502	6508	6558	6523	0.48	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1730578	1748498	1703314	1727464	1.32	cps
Antimony	121-1	17852	18145	17568	17855	1.62	cps
Arsenic	75-2	21353	21203	21707	21421	1.21	cps
Barium	135-1	930081	943585	937372	937013	0.72	cps
Barium	137-1	1662805	1681762	1688044	1677537	0.78	cps
Beryllium	9-1	7236	7112	7300	7216	1.32	cps
Bismuth	209-1	12330949	12163881	12211511	12235447	0.70	cps
Bismuth	209-2	5415605	5514438	5531173	5487072	1.14	cps
Bromine	81-1	7856	8096	8649	8200	4.96	cps
Cadmium	108-1	157	163	147	156	5.39	cps
Cadmium	106-1	7515	7932	7786	7744	2.73	cps
Cadmium	111-1	5971	6308	6137	6139	2.75	cps
Calcium	43-1	337552	340213	341638	339801	0.61	cps
Calcium	44-1	5506491	5638026	5607871	5584130	1.23	cps
Carbon	12-1	7009135	6922890	6968374	6966800	0.62	cps
Carbon	12-2	44989	44935	44049	44658	1.18	cps
Chlorine	35-1	208527370	225113817	227999010	220546732	4.76	cps
Chlorine	35-2	991874	993503	1007139	997506	0.84	cps
Chromium	52-2	212406	213043	211314	212254	0.41	cps
Cobalt	59-2	224448	223605	221900	223317	0.58	cps
Copper	63-2	593734	590620	587671	590675	0.51	cps
Dysprosium	156-1	68940	69908	69325	69391	0.70	cps
Dysprosium	156-2	28317	28390	27979	28229	0.78	cps
Erbium	164-1	67523	68117	67208	67616	0.68	cps
Erbium	164-2	25845	24620	25381	25282	2.45	cps
Gadolinium	160-1	72881	73317	73591	73263	0.49	cps
Gadolinium	160-2	34404	33241	32937	33528	2.31	cps
Holmium	165-1	19835758	19641555	19851167	19776160	0.59	cps
Holmium	165-2	7683949	7431959	7473391	7529766	1.79	cps
Indium	115-1	16047856	15969816	15763247	15926973	0.92	cps
Indium	115-2	1743624	1711153	1697138	1717305	1.39	cps
Iron	54-2	10155342	10380408	10123045	10219598	1.37	cps
Iron	56-2	187466857	189705264	190561104	189244408	0.84	cps
Iron	57-2	4808968	4745966	4687421	4747452	1.28	cps
Krypton	83-1	427	433	417	426	1.97	cps
Lead	206-1	333348	332114	335246	333569	0.47	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	272065	272360	272003	272143	0.07	cps
Lead	208-1	1285593	1287742	1291155	1288164	0.22	cps
Lithium	6-1	9360916	9493849	9301394	9385387	1.05	cps
Magnesium	24-2	3045472	3022748	3080531	3049584	0.95	cps
Manganese	55-2	818554	828289	814348	820397	0.87	cps
Molybdenum	94-1	16306	16583	16827	16572	1.57	cps
Molybdenum	95-1	10714	11028	11241	10994	2.41	cps
Molybdenum	96-1	14151	13557	13623	13777	2.36	cps
Molybdenum	97-1	6715	6632	7019	6788	3.00	cps
Molybdenum	98-1	17371	17391	17378	17380	0.06	cps
Neodymium	150-1	73362	73560	73835	73586	0.32	cps
Neodymium	150-2	20075	19391	20182	19883	2.16	cps
Nickel	60-2	162081	161161	160099	161114	0.62	cps
Phosphorus	31-2	2434	2594	2647	2558	4.34	cps
Potassium	39-2	108578	107963	108987	108509	0.47	cps
Rhodium	103-1	15183770	15285020	15205302	15224697	0.35	cps
Rhodium	103-2	6230789	6238997	6266669	6245485	0.30	cps
Scandium	45-1	11847289	11943483	11911652	11900808	0.41	cps
Scandium	45-2	243850	243367	242660	243292	0.25	cps
Selenium	82-1	360	220	107	229	55.44	cps
Selenium	77-2	100	140	130	123	16.88	cps
Selenium	78-2	130	107	87	108	20.12	cps
Silicon	28-1	85237515	84111012	84819730	84722753	0.67	cps
Silver	107-1	7135	7592	7666	7464	3.85	cps
Silver	109-1	6898	7032	7079	7003	1.33	cps
Sodium	23-2	119336	120469	120734	120179	0.62	cps
Strontium	86-1	297829	297756	300403	298663	0.50	cps
Strontium	88-1	2688495	2692233	2643071	2674600	1.02	cps
Sulfur	34-1	638302	621797	612870	624323	2.07	cps
Terbium	159-1	20065968	20273168	20355997	20231711	0.74	cps
Terbium	159-2	7378496	7299334	7360302	7346044	0.56	cps
Thallium	203-1	3464	3447	3501	3470	0.79	cps
Thallium	205-1	7909	8343	9070	8441	6.95	cps
Tin	118-1	5938	5738	5778	5818	1.82	cps
Titanium	47-1	60852	61461	61180	61164	0.50	cps
Uranium	238-1	24317	24651	24343	24437	0.76	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-02	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:32:40	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	208830	207606	206968	207801	0.46	cps
Ytterbium	172-1	19241	19050	19605	19299	1.46	cps
Ytterbium	172-2	9073	8590	8890	8851	2.76	cps
Ytterbium	176-1	13280	13751	13904	13645	2.38	cps
Ytterbium	176-2	5575	5805	5941	5774	3.21	cps
Yttrium	89-1	29699067	29654790	29193750	29515869	0.95	cps
Yttrium	89-2	2323999	2240467	2324232	2296233	2.10	cps
Zinc	66-2	85989	86113	86086	86062	0.08	cps
Zirconium	90-1	27958	28579	28529	28356	1.22	cps
Zirconium	91-1	6715	6715	6502	6644	1.85	cps

1300

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	337980	334034	334637	335550	0.63	cps
Antimony	121-1	4107	4307	4021	4145	3.55	cps
Arsenic	75-2	4151	4291	4137	4193	2.03	cps
Barium	135-1	181522	184641	185100	183755	1.06	cps
Barium	137-1	319382	324672	320450	321501	0.87	cps
Beryllium	9-1	1667	1664	1662	1664	0.16	cps
Bismuth	209-1	12309079	11903371	12236157	12149536	1.78	cps
Bismuth	209-2	5615341	5564071	5517966	5565793	0.88	cps
Bromine	81-1	5338	5494	5391	5408	1.47	cps
Cadmium	108-1	67	57	57	60	9.62	cps
Cadmium	106-1	7162	7315	7545	7341	2.63	cps
Cadmium	111-1	5160	5301	5422	5294	2.48	cps
Calcium	43-1	66278	67517	66975	66923	0.93	cps
Calcium	44-1	1100936	1110849	1110683	1107489	0.51	cps
Carbon	12-1	6274038	6427696	6360316	6354017	1.21	cps
Carbon	12-2	40790	40425	40459	40558	0.50	cps
Chlorine	35-1	50806958	53197633	53051444	52352011	2.56	cps
Chlorine	35-2	229066	226728	227067	227620	0.56	cps
Chromium	52-2	45372	44857	45328	45186	0.63	cps
Cobalt	59-2	44924	44355	44225	44502	0.83	cps
Copper	63-2	120045	119655	120522	120074	0.36	cps
Dysprosium	156-1	13594	13373	13627	13531	1.02	cps
Dysprosium	156-2	5568	5478	5655	5567	1.59	cps
Erbium	164-1	13097	13353	13253	13234	0.98	cps
Erbium	164-2	5018	5361	4941	5107	4.38	cps
Gadolinium	160-1	14248	14638	14641	14509	1.56	cps
Gadolinium	160-2	6862	6605	6892	6786	2.32	cps
Holmium	165-1	19489226	19348707	19395963	19411299	0.37	cps
Holmium	165-2	7471267	7562461	7413469	7482399	1.00	cps
Indium	115-1	15837411	15301313	15951274	15696666	2.21	cps
Indium	115-2	1709885	1722488	1748508	1726961	1.14	cps
Iron	54-2	2064665	2047138	2089622	2067142	1.03	cps
Iron	56-2	37324027	37067674	37760298	37384000	0.94	cps
Iron	57-2	913591	908876	917733	913400	0.49	cps
Krypton	83-1	323	330	343	332	3.07	cps
Lead	206-1	67638	68201	68158	67999	0.46	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	55073	56513	56124	55903	1.33	cps
Lead	208-1	258354	262477	261679	260837	0.84	cps
Lithium	6-1	9249331	9195619	9275852	9240267	0.44	cps
Magnesium	24-2	589488	591754	591539	590927	0.21	cps
Manganese	55-2	164371	162948	164493	163937	0.52	cps
Molybdenum	94-1	3734	3857	3617	3736	3.21	cps
Molybdenum	95-1	2260	2464	2427	2384	4.55	cps
Molybdenum	96-1	2794	3160	3350	3101	9.13	cps
Molybdenum	97-1	1343	1570	1560	1491	8.59	cps
Molybdenum	98-1	3877	3701	4001	3859	3.91	cps
Neodymium	150-1	14408	14495	14972	14625	2.08	cps
Neodymium	150-2	3884	4047	3804	3912	3.17	cps
Nickel	60-2	31999	31976	33052	32342	1.90	cps
Phosphorus	31-2	647	653	490	597	15.49	cps
Potassium	39-2	32493	32680	32583	32586	0.29	cps
Rhodium	103-1	15409576	15182919	15177809	15256768	0.87	cps
Rhodium	103-2	6347515	6290771	6482216	6373501	1.54	cps
Scandium	45-1	11692247	11549627	11613779	11618551	0.61	cps
Scandium	45-2	238796	237870	238820	238495	0.23	cps
Selenium	82-1	0	27	-23	1	2247.18	cps
Selenium	77-2	30	20	43	31	37.62	cps
Selenium	78-2	30	17	40	29	40.51	cps
Silicon	28-1	16367544	16722109	16365314	16484989	1.25	cps
Silver	107-1	1810	1857	1770	1812	2.39	cps
Silver	109-1	1567	1473	1533	1525	3.10	cps
Sodium	23-2	76988	75996	76157	76380	0.70	cps
Strontium	86-1	57879	59208	58485	58524	1.14	cps
Strontium	88-1	497520	508064	502928	502837	1.05	cps
Sulfur	34-1	594496	593645	593281	593807	0.10	cps
Terbium	159-1	20703488	20023937	20155433	20294286	1.78	cps
Terbium	159-2	7335941	7172999	7215774	7241571	1.17	cps
Thallium	203-1	1207	1117	1187	1170	4.04	cps
Thallium	205-1	2900	2757	2717	2791	3.45	cps
Tin	118-1	2834	2580	2534	2649	6.09	cps
Titanium	47-1	12435	12479	12516	12477	0.32	cps
Uranium	238-1	4858	4798	4648	4768	2.27	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01LX5	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 13:35:53	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	41430	40781	41259	41157	0.82	cps
Ytterbium	172-1	3774	3911	3574	3753	4.51	cps
Ytterbium	172-2	1700	1663	1787	1717	3.69	cps
Ytterbium	176-1	4277	4117	4337	4244	2.68	cps
Ytterbium	176-2	1377	1397	1483	1419	4.00	cps
Yttrium	89-1	28647396	28097670	28649041	28464702	1.12	cps
Yttrium	89-2	2239219	2235474	2228305	2234333	0.25	cps
Zinc	66-2	17561	17431	17364	17452	0.57	cps
Zirconium	90-1	6271	6291	6535	6366	2.30	cps
Zirconium	91-1	1317	1440	1403	1387	4.57	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1762488	1788228	1803263	1784659	1.16	cps
Antimony	121-1	364549	371925	369127	368534	1.01	cps
Arsenic	75-2	24695	24271	24157	24375	1.16	cps
Barium	135-1	2594845	2652408	2638873	2628709	1.14	cps
Barium	137-1	4462798	4578681	4524044	4521841	1.28	cps
Beryllium	9-1	72897	74184	73589	73557	0.88	cps
Bismuth	209-1	12286055	12223434	12202502	12237330	0.36	cps
Bismuth	209-2	5484142	5548184	5481323	5504550	0.69	cps
Bromine	81-1	7862	8486	8116	8155	3.85	cps
Cadmium	108-1	3017	3287	3260	3188	4.67	cps
Cadmium	106-1	11565	11101	11462	11376	2.14	cps
Cadmium	111-1	47633	47116	47852	47534	0.79	cps
Calcium	43-1	394188	400362	403521	399357	1.19	cps
Calcium	44-1	6245770	6386683	6392226	6341560	1.31	cps
Carbon	12-1	6847622	7055577	6986207	6963135	1.52	cps
Carbon	12-2	44427	45517	45493	45146	1.38	cps
Chlorine	35-1	213483563	227933837	232241843	224553081	4.38	cps
Chlorine	35-2	1010907	1023508	1031147	1021854	1.00	cps
Chromium	52-2	383963	384948	383500	384137	0.19	cps
Cobalt	59-2	1036248	1024623	1036290	1032387	0.65	cps
Copper	63-2	903870	903207	899971	902349	0.23	cps
Dysprosium	156-1	68371	70240	69298	69303	1.35	cps
Dysprosium	156-2	28307	28480	28607	28465	0.53	cps
Erbium	164-1	66345	66947	67098	66797	0.60	cps
Erbium	164-2	24890	24940	24930	24920	0.11	cps
Gadolinium	160-1	72938	74335	74671	73981	1.24	cps
Gadolinium	160-2	33863	34124	33780	33922	0.53	cps
Holmium	165-1	19883601	19847788	19622215	19784535	0.72	cps
Holmium	165-2	7485804	7369839	7492251	7449298	0.92	cps
Indium	115-1	16140984	16058698	15991810	16063831	0.47	cps
Indium	115-2	1726234	1731777	1750538	1736183	0.73	cps
Iron	54-2	10261014	10149811	10251219	10220681	0.60	cps
Iron	56-2	189504231	187783984	188663631	188650615	0.46	cps
Iron	57-2	4926716	4770378	4805427	4834174	1.70	cps
Krypton	83-1	523	490	447	487	7.90	cps
Lead	206-1	380528	387880	388492	385633	1.15	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	313538	316918	318589	316348	0.81	cps
Lead	208-1	1467180	1495210	1499787	1487392	1.19	cps
Lithium	6-1	9554666	9452501	9502196	9503121	0.54	cps
Magnesium	24-2	3047230	3031210	3011265	3029902	0.59	cps
Manganese	55-2	992916	997680	1000223	996940	0.37	cps
Molybdenum	94-1	570082	583598	581532	578404	1.26	cps
Molybdenum	95-1	964386	976000	986721	975703	1.14	cps
Molybdenum	96-1	1033204	1055957	1042723	1043961	1.09	cps
Molybdenum	97-1	601866	618077	607847	609263	1.35	cps
Molybdenum	98-1	1639148	1641827	1648769	1643248	0.30	cps
Neodymium	150-1	72032	75668	74401	74034	2.49	cps
Neodymium	150-2	20392	20202	19881	20159	1.28	cps
Nickel	60-2	383151	382666	384503	383440	0.25	cps
Phosphorus	31-2	2717	2627	2627	2657	1.96	cps
Potassium	39-2	110919	111392	112799	111703	0.88	cps
Rhodium	103-1	15530934	15331961	15383473	15415456	0.67	cps
Rhodium	103-2	6486487	6339533	6362515	6396178	1.24	cps
Scandium	45-1	12227882	12035901	12029445	12097743	0.93	cps
Scandium	45-2	246025	245223	244175	245141	0.38	cps
Selenium	82-1	1080	1070	1160	1103	4.47	cps
Selenium	77-2	150	150	103	134	20.04	cps
Selenium	78-2	173	163	153	163	6.12	cps
Silicon	28-1	84884799	89305352	87809672	87333274	2.57	cps
Silver	107-1	212861	220654	218849	217455	1.88	cps
Silver	109-1	201956	208063	207121	205713	1.60	cps
Sodium	23-2	118567	120898	121241	120235	1.21	cps
Strontium	86-1	11749688	11667563	11455947	11624399	1.30	cps
Strontium	88-1	101568328	101082138	100299619	100983362	0.63	cps
Sulfur	34-1	596225	588764	586871	590620	0.84	cps
Terbium	159-1	20566569	20413694	20300203	20426822	0.65	cps
Terbium	159-2	7279333	7368131	7299808	7315758	0.64	cps
Thallium	203-1	156283	159999	161585	159289	1.71	cps
Thallium	205-1	380318	382762	383225	382102	0.41	cps
Tin	118-1	8090	5585	5478	6384	23.16	cps
Titanium	47-1	59349	60366	61113	60276	1.47	cps
Uranium	238-1	24267	24751	24450	24489	1.00	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-03	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:39:12	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	540010	534311	540650	538323	0.65	cps
Ytterbium	172-1	18970	19144	19765	19293	2.17	cps
Ytterbium	172-2	9016	8820	9033	8956	1.33	cps
Ytterbium	176-1	13200	13437	13767	13468	2.12	cps
Ytterbium	176-2	5831	5855	5658	5781	1.86	cps
Yttrium	89-1	30158977	29321116	29133224	29537772	1.85	cps
Yttrium	89-2	2289907	2315143	2287693	2297581	0.66	cps
Zinc	66-2	153777	155310	152585	153891	0.89	cps
Zirconium	90-1	27257	27808	28309	27791	1.89	cps
Zirconium	91-1	6245	6281	6322	6283	0.61	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2274	2207	2317	2266	2.45	cps
Antimony	121-1	153	103	107	121	23.08	cps
Arsenic	75-2	0	7	0	2	173.21	cps
Barium	135-1	433	353	360	382	11.61	cps
Barium	137-1	537	403	423	454	15.82	cps
Beryllium	9-1	379	409	382	390	4.19	cps
Bismuth	209-1	12032972	12078667	12278667	12130102	1.08	cps
Bismuth	209-2	5622515	5634914	5736073	5664501	1.10	cps
Bromine	81-1	4758	4631	4691	4693	1.35	cps
Cadmium	108-1	23	13	23	20	28.87	cps
Cadmium	106-1	7352	7152	7335	7280	1.53	cps
Cadmium	111-1	5177	5034	5152	5121	1.49	cps
Calcium	43-1	510	467	490	489	4.44	cps
Calcium	44-1	33519	33192	32216	32976	2.06	cps
Carbon	12-1	6348860	6370376	6439226	6386154	0.74	cps
Carbon	12-2	42568	41692	42548	42269	1.18	cps
Chlorine	35-1	13994164	12702634	11513723	12736840	9.74	cps
Chlorine	35-2	41984	40590	37726	40100	5.41	cps
Chromium	52-2	1073	1250	1273	1199	9.12	cps
Cobalt	59-2	163	160	147	157	5.63	cps
Copper	63-2	5621	5698	5835	5718	1.89	cps
Dysprosium	156-1	27	23	20	23	14.29	cps
Dysprosium	156-2	7	7	3	6	34.70	cps
Erbium	164-1	100	93	90	94	5.39	cps
Erbium	164-2	33	37	37	36	5.42	cps
Gadolinium	160-1	113	130	123	122	6.86	cps
Gadolinium	160-2	13	10	20	14	35.26	cps
Holmium	165-1	19528713	19446176	19343748	19439546	0.48	cps
Holmium	165-2	7650811	7542383	7522175	7571789	0.91	cps
Indium	115-1	16088011	15851424	15622206	15853880	1.47	cps
Indium	115-2	1779436	1789784	1791852	1787024	0.37	cps
Iron	54-2	1193	1170	1040	1135	7.28	cps
Iron	56-2	19507	18563	16036	18035	9.95	cps
Iron	57-2	507	423	480	470	9.06	cps
Krypton	83-1	310	347	257	304	14.87	cps
Lead	206-1	2414	2367	2230	2337	4.08	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2057	1987	1810	1951	6.52	cps
Lead	208-1	9465	9238	8681	9128	4.42	cps
Lithium	6-1	9128261	9261173	9068561	9152665	1.08	cps
Magnesium	24-2	1910	1797	1827	1845	3.18	cps
Manganese	55-2	230	200	190	207	10.07	cps
Molybdenum	94-1	453	480	493	476	4.28	cps
Molybdenum	95-1	357	343	197	299	29.70	cps
Molybdenum	96-1	387	380	393	387	1.72	cps
Molybdenum	97-1	207	200	217	208	4.04	cps
Molybdenum	98-1	480	430	543	484	11.72	cps
Neodymium	150-1	20	20	30	23	24.74	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	733	917	877	842	11.45	cps
Phosphorus	31-2	93	107	107	102	7.53	cps
Potassium	39-2	13386	13573	13980	13647	2.23	cps
Rhodium	103-1	15444821	15414268	15178296	15345795	0.95	cps
Rhodium	103-2	6399306	6400496	6493278	6431027	0.84	cps
Scandium	45-1	11533108	11255375	11458275	11415586	1.26	cps
Scandium	45-2	238427	235446	236182	236685	0.66	cps
Selenium	82-1	-53	-100	47	-36	-210.75	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	7	10	37	18	92.48	cps
Silicon	28-1	662494	665371	666144	664670	0.29	cps
Silver	107-1	563	513	480	519	8.08	cps
Silver	109-1	420	433	363	406	9.17	cps
Sodium	23-2	69571	68500	68825	68965	0.80	cps
Strontium	86-1	1483	1480	1283	1416	8.09	cps
Strontium	88-1	8420	8794	6382	7865	16.51	cps
Sulfur	34-1	595609	595989	598289	596629	0.24	cps
Terbium	159-1	20076648	19797390	19872422	19915487	0.73	cps
Terbium	159-2	7380266	7316542	7325484	7340764	0.47	cps
Thallium	203-1	760	673	607	680	11.31	cps
Thallium	205-1	1760	1823	1670	1751	4.40	cps
Tin	118-1	2064	1980	1963	2002	2.68	cps
Titanium	47-1	323	250	317	297	13.67	cps
Uranium	238-1	47	27	33	36	28.64	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:42:22	DataFile Name :	028CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43	47	57	49	14.20	cps
Ytterbium	172-1	107	127	93	109	15.41	cps
Ytterbium	172-2	23	47	53	41	38.32	cps
Ytterbium	176-1	1873	1787	1830	1830	2.37	cps
Ytterbium	176-2	337	280	353	323	11.89	cps
Yttrium	89-1	28121682	28208851	28051239	28127257	0.28	cps
Yttrium	89-2	2227866	2234095	2254717	2238893	0.63	cps
Zinc	66-2	353	323	347	341	4.62	cps
Zirconium	90-1	1033	1120	983	1046	6.61	cps
Zirconium	91-1	163	157	203	174	14.47	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3640	3347	3510	3499	4.20	cps
Antimony	121-1	71314	72883	72605	72267	1.16	cps
Arsenic	75-2	870	830	707	802	10.61	cps
Barium	135-1	82312	83331	84008	83217	1.03	cps
Barium	137-1	145251	145361	145257	145290	0.04	cps
Beryllium	9-1	14688	14813	14670	14724	0.53	cps
Bismuth	209-1	12568279	12031134	12368924	12322779	2.20	cps
Bismuth	209-2	5580530	5631957	5612088	5608192	0.46	cps
Bromine	81-1	4838	4818	4921	4859	1.13	cps
Cadmium	108-1	667	743	807	739	9.49	cps
Cadmium	106-1	8199	8122	8429	8250	1.94	cps
Cadmium	111-1	14149	14205	14199	14184	0.22	cps
Calcium	43-1	61705	61641	62200	61849	0.49	cps
Calcium	44-1	1025915	1028159	1032511	1028862	0.33	cps
Carbon	12-1	6552620	6758098	6770214	6693644	1.83	cps
Carbon	12-2	44634	44795	44741	44723	0.18	cps
Chlorine	35-1	7399696	7425849	7294941	7373495	0.94	cps
Chlorine	35-2	29012	28041	28141	28398	1.88	cps
Chromium	52-2	18559	18188	18876	18541	1.86	cps
Cobalt	59-2	17578	17568	17261	17469	1.03	cps
Copper	63-2	34652	34104	34255	34337	0.82	cps
Dysprosium	156-1	27	40	27	31	24.74	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Erbium	164-1	110	90	100	100	10.00	cps
Erbium	164-2	43	37	33	38	13.48	cps
Gadolinium	160-1	100	117	157	124	23.40	cps
Gadolinium	160-2	7	20	13	13	49.99	cps
Holmium	165-1	19565556	19119774	19347311	19344214	1.15	cps
Holmium	165-2	7542050	7575041	7408020	7508370	1.18	cps
Indium	115-1	15938629	15898064	15933164	15923285	0.14	cps
Indium	115-2	1766506	1752352	1751740	1756866	0.48	cps
Iron	54-2	74175	73548	73029	73584	0.78	cps
Iron	56-2	1352827	1335482	1335979	1341429	0.74	cps
Iron	57-2	33633	33974	33880	33829	0.52	cps
Krypton	83-1	273	300	263	279	6.80	cps
Lead	206-1	28996	29978	29477	29484	1.67	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25979	25535	25298	25604	1.35	cps
Lead	208-1	116400	117189	116997	116862	0.35	cps
Lithium	6-1	9087727	8915022	9006826	9003192	0.96	cps
Magnesium	24-2	282291	286409	283872	284191	0.73	cps
Manganese	55-2	3744	3877	3764	3795	1.90	cps
Molybdenum	94-1	74706	76603	76405	75904	1.37	cps
Molybdenum	95-1	89264	89009	89758	89344	0.43	cps
Molybdenum	96-1	99842	100020	99735	99866	0.14	cps
Molybdenum	97-1	56384	56063	56809	56418	0.66	cps
Molybdenum	98-1	142146	144591	144295	143677	0.93	cps
Neodymium	150-1	33	17	33	28	34.63	cps
Neodymium	150-2	0	3	10	4	114.60	cps
Nickel	60-2	6015	5364	5791	5723	5.77	cps
Phosphorus	31-2	347	317	240	301	18.27	cps
Potassium	39-2	183011	181253	183554	182606	0.66	cps
Rhodium	103-1	15579752	15348210	15443813	15457258	0.75	cps
Rhodium	103-2	6370986	6404574	6325934	6367165	0.62	cps
Scandium	45-1	11678578	11337941	11398066	11471528	1.58	cps
Scandium	45-2	236732	235470	237652	236618	0.46	cps
Selenium	82-1	2747	2607	2684	2679	2.62	cps
Selenium	77-2	63	47	57	56	15.09	cps
Selenium	78-2	197	157	223	192	17.46	cps
Silicon	28-1	954422	937278	932889	941529	1.21	cps
Silver	107-1	44712	44869	45388	44990	0.79	cps
Silver	109-1	42134	42238	43318	42563	1.54	cps
Sodium	23-2	650408	648104	646365	648292	0.31	cps
Strontium	86-1	12012	12182	12652	12282	2.70	cps
Strontium	88-1	101529	103050	101163	101914	0.98	cps
Sulfur	34-1	647022	655053	653621	651898	0.66	cps
Terbium	159-1	20057137	19976593	20327728	20120486	0.91	cps
Terbium	159-2	7251669	7239077	7255008	7248585	0.12	cps
Thallium	203-1	33577	34690	34536	34267	1.76	cps
Thallium	205-1	82356	83121	82218	82565	0.59	cps
Tin	118-1	144954	146056	147222	146077	0.78	cps
Titanium	47-1	7245	7322	7242	7270	0.62	cps
Uranium	238-1	104230	104916	104435	104527	0.34	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:45:42	DataFile Name :	029LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	35123	35564	35414	35367	0.63	cps
Ytterbium	172-1	77	103	77	86	18.00	cps
Ytterbium	172-2	70	40	60	57	26.96	cps
Ytterbium	176-1	1840	1977	2027	1948	4.96	cps
Ytterbium	176-2	383	447	447	426	8.59	cps
Yttrium	89-1	28897440	28102754	27997130	28332441	1.74	cps
Yttrium	89-2	2222919	2205757	2182960	2203879	0.91	cps
Zinc	66-2	7425	7339	7505	7423	1.12	cps
Zirconium	90-1	62513	62265	63092	62623	0.68	cps
Zirconium	91-1	14064	13407	13914	13795	2.50	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	713	733	757	734	2.95	cps
Antimony	121-1	913	917	823	884	5.99	cps
Arsenic	75-2	190	190	127	169	21.65	cps
Barium	135-1	72818	74041	73609	73489	0.84	cps
Barium	137-1	126976	128682	128087	127915	0.68	cps
Beryllium	9-1	354	389	319	354	9.90	cps
Bismuth	209-1	11060901	11161145	11207896	11143314	0.67	cps
Bismuth	209-2	5074105	5082522	5039946	5065524	0.45	cps
Bromine	81-1	96966	110182	118334	108494	9.94	cps
Cadmium	108-1	37	23	40	33	26.47	cps
Cadmium	106-1	7365	7629	7602	7532	1.93	cps
Cadmium	111-1	5173	5351	5317	5280	1.78	cps
Calcium	43-1	20993106	21348236	21150193	21163845	0.84	cps
Calcium	44-1	343637182	345102355	339585088	342774875	0.83	cps
Carbon	12-1	9440204	10063204	10378838	9960749	4.80	cps
Carbon	12-2	72266	70418	71968	71551	1.39	cps
Chlorine	35-1	5456261	5691753	5665600	5604538	2.30	cps
Chlorine	35-2	23763	23720	22768	23417	2.40	cps
Chromium	52-2	1700	1827	1727	1751	3.81	cps
Cobalt	59-2	273	303	267	281	6.95	cps
Copper	63-2	3781	4094	3717	3864	5.22	cps
Dysprosium	156-1	207	263	210	227	14.03	cps
Dysprosium	156-2	93	73	90	86	12.53	cps
Erbium	164-1	313	293	380	329	13.80	cps
Erbium	164-2	97	80	137	104	27.88	cps
Gadolinium	160-1	337	303	300	313	6.47	cps
Gadolinium	160-2	90	140	117	116	21.65	cps
Holmium	165-1	18700440	18967538	19081408	18916462	1.03	cps
Holmium	165-2	7140163	7167668	7077194	7128342	0.65	cps
Indium	115-1	14809087	14944932	15117456	14957158	1.03	cps
Indium	115-2	1609065	1621669	1578635	1603123	1.38	cps
Iron	54-2	131341	131277	130197	130938	0.49	cps
Iron	56-2	2504404	2498158	2526374	2509645	0.59	cps
Iron	57-2	60705	61649	60738	61031	0.88	cps
Krypton	83-1	350	313	280	314	11.13	cps
Lead	206-1	2307	2374	2237	2306	2.96	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2040	1947	1847	1945	4.97	cps
Lead	208-1	9015	9068	8458	8847	3.82	cps
Lithium	6-1	8584584	8687979	8528139	8600234	0.94	cps
Magnesium	24-2	30844900	30425172	30850059	30706710	0.79	cps
Manganese	55-2	41610	41360	42068	41679	0.86	cps
Molybdenum	94-1	3060	2870	2810	2914	4.48	cps
Molybdenum	95-1	3134	2994	3314	3147	5.10	cps
Molybdenum	96-1	3484	3530	3507	3507	0.67	cps
Molybdenum	97-1	1923	1913	1974	1937	1.66	cps
Molybdenum	98-1	4848	4794	4774	4805	0.79	cps
Neodymium	150-1	323	290	303	306	5.49	cps
Neodymium	150-2	77	67	73	72	7.05	cps
Nickel	60-2	767	657	713	712	7.72	cps
Phosphorus	31-2	147	87	107	113	26.96	cps
Potassium	39-2	568699	561432	558594	562908	0.93	cps
Rhodium	103-1	13848901	13999196	13903264	13917120	0.55	cps
Rhodium	103-2	5693400	5750669	5607111	5683727	1.27	cps
Scandium	45-1	11188921	11147883	11019732	11118845	0.79	cps
Scandium	45-2	223118	221066	222076	222087	0.46	cps
Selenium	82-1	30	80	113	74	56.34	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	7	10	10	9	21.63	cps
Silicon	28-1	82371377	82534159	82075294	82326943	0.28	cps
Silver	107-1	793	747	613	718	13.01	cps
Silver	109-1	577	440	437	484	16.49	cps
Sodium	23-2	16920482	16536877	16925226	16794195	1.33	cps
Strontium	86-1	78065329	77585579	78677424	78109444	0.70	cps
Strontium	88-1	664228417	674460937	680102630	672930661	1.20	cps
Sulfur	34-1	32700710	32903475	32707637	32770607	0.35	cps
Terbium	159-1	19474668	19383788	19034938	19297798	1.20	cps
Terbium	159-2	6984218	6943341	6964783	6964114	0.29	cps
Thallium	203-1	490	490	453	478	4.43	cps
Thallium	205-1	1290	1200	1137	1209	6.37	cps
Tin	118-1	12643	12412	13026	12694	2.44	cps
Titanium	47-1	1647	1807	1827	1760	5.61	cps
Uranium	238-1	11132	10858	10928	10973	1.30	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:48:59	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	343	340	363	349	3.62	cps
Ytterbium	172-1	237	203	203	214	8.97	cps
Ytterbium	172-2	63	100	117	93	29.24	cps
Ytterbium	176-1	1747	2064	1873	1895	8.41	cps
Ytterbium	176-2	307	327	300	311	4.46	cps
Yttrium	89-1	26874901	27453738	27049205	27125948	1.09	cps
Yttrium	89-2	2055193	2092624	2029857	2059225	1.53	cps
Zinc	66-2	737	657	723	706	6.07	cps
Zirconium	90-1	3584	3357	3234	3392	5.24	cps
Zirconium	91-1	833	743	663	747	11.39	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	523	473	497	498	5.03	cps
Antimony	121-1	90	123	110	108	15.57	cps
Arsenic	75-2	27	20	13	20	33.35	cps
Barium	135-1	33575	33979	34350	33968	1.14	cps
Barium	137-1	59460	60274	60675	60136	1.03	cps
Beryllium	9-1	451	417	461	443	5.17	cps
Bismuth	209-1	10984404	10257383	11344865	10862217	5.10	cps
Bismuth	209-2	4815334	4960863	4858719	4878306	1.53	cps
Bromine	81-1	125910	156551	172912	151791	15.72	cps
Cadmium	108-1	17	27	33	26	32.81	cps
Cadmium	106-1	7435	7025	7532	7331	3.67	cps
Cadmium	111-1	5233	4929	5286	5149	3.74	cps
Calcium	43-1	20483136	20303502	20206702	20331113	0.69	cps
Calcium	44-1	325659608	329150735	326440842	327083728	0.56	cps
Carbon	12-1	9726294	10453586	10830430	10336770	5.43	cps
Carbon	12-2	73727	73422	73931	73693	0.35	cps
Chlorine	35-1	19653239	21770171	22599989	21341133	7.12	cps
Chlorine	35-2	97740	99069	100767	99192	1.53	cps
Chromium	52-2	1530	1727	1777	1678	7.77	cps
Cobalt	59-2	393	410	407	403	2.19	cps
Copper	63-2	5368	5561	5635	5521	2.50	cps
Dysprosium	156-1	20	23	27	23	14.29	cps
Dysprosium	156-2	23	7	7	12	78.69	cps
Erbium	164-1	123	137	80	113	26.14	cps
Erbium	164-2	43	47	40	43	7.70	cps
Gadolinium	160-1	163	137	110	137	19.51	cps
Gadolinium	160-2	33	7	20	20	66.65	cps
Holmium	165-1	18031290	17412389	18916480	18120053	4.17	cps
Holmium	165-2	6963575	7129561	7006983	7033373	1.22	cps
Indium	115-1	14471368	13736966	14909671	14372668	4.12	cps
Indium	115-2	1480660	1583820	1483929	1516136	3.87	cps
Iron	54-2	4974	4311	4461	4582	7.59	cps
Iron	56-2	78809	80814	79956	79860	1.26	cps
Iron	57-2	2530	2740	2637	2636	3.98	cps
Krypton	83-1	323	287	297	302	6.27	cps
Lead	206-1	2344	2270	2504	2372	5.03	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1974	1837	1870	1893	3.76	cps
Lead	208-1	9245	8544	9025	8938	4.01	cps
Lithium	6-1	8533961	8137563	8522171	8397898	2.69	cps
Magnesium	24-2	30858075	30135922	30394406	30462801	1.20	cps
Manganese	55-2	12682	12609	12969	12754	1.49	cps
Molybdenum	94-1	837	813	867	839	3.19	cps
Molybdenum	95-1	377	377	387	380	1.52	cps
Molybdenum	96-1	510	407	480	466	11.42	cps
Molybdenum	97-1	193	227	203	208	8.23	cps
Molybdenum	98-1	460	510	557	509	9.50	cps
Neodymium	150-1	37	40	30	36	14.32	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	857	753	900	837	9.01	cps
Phosphorus	31-2	117	123	107	116	7.26	cps
Potassium	39-2	658358	659628	659397	659128	0.10	cps
Rhodium	103-1	13064168	12735043	13712441	13170551	3.78	cps
Rhodium	103-2	5441097	5630827	5456815	5509580	1.91	cps
Scandium	45-1	10689411	10155671	11083534	10642872	4.38	cps
Scandium	45-2	214507	218034	217487	216676	0.88	cps
Selenium	82-1	50	107	170	109	55.13	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	3	13	12	68.66	cps
Silicon	28-1	92715532	94303445	92937772	93318916	0.92	cps
Silver	107-1	697	683	683	688	1.12	cps
Silver	109-1	427	410	523	453	13.50	cps
Sodium	23-2	64888739	63816136	64469472	64391449	0.84	cps
Strontium	86-1	80297955	80248672	80583327	80376652	0.22	cps
Strontium	88-1	678042390	681476897	682714083	680744457	0.36	cps
Sulfur	34-1	27856648	28219558	27674691	27916966	0.99	cps
Terbium	159-1	18892779	17903127	19210079	18668662	3.65	cps
Terbium	159-2	6710216	6739669	6600633	6683506	1.10	cps
Thallium	203-1	453	363	310	376	19.29	cps
Thallium	205-1	913	1033	980	976	6.16	cps
Tin	118-1	7302	7802	7495	7533	3.35	cps
Titanium	47-1	2594	2747	2567	2636	3.69	cps
Uranium	238-1	850	907	997	918	8.06	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-02	Instrumnet Name :	P8
Client Sample ID :	ME2949	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:52:13	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	130	117	157	134	15.15	cps
Ytterbium	172-1	80	93	90	88	7.90	cps
Ytterbium	172-2	27	37	30	31	16.37	cps
Ytterbium	176-1	1790	1613	1890	1765	7.94	cps
Ytterbium	176-2	283	297	260	280	6.63	cps
Yttrium	89-1	25980760	24847527	26727865	25852051	3.66	cps
Yttrium	89-2	1995050	2042909	1977404	2005121	1.69	cps
Zinc	66-2	773	870	787	810	6.47	cps
Zirconium	90-1	1877	1840	2034	1917	5.36	cps
Zirconium	91-1	400	410	410	407	1.42	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	119883	118968	120241	119697	0.55	cps
Antimony	121-1	5044	4888	4934	4955	1.62	cps
Arsenic	75-2	100	77	107	94	16.68	cps
Barium	135-1	58643	60849	60079	59857	1.87	cps
Barium	137-1	102220	105403	107315	104979	2.45	cps
Beryllium	9-1	450	431	456	446	2.92	cps
Bismuth	209-1	11497410	11509020	11526747	11511059	0.13	cps
Bismuth	209-2	5240706	5266331	5109231	5205423	1.62	cps
Bromine	81-1	134357	150613	164468	149813	10.06	cps
Cadmium	108-1	23	40	20	28	38.58	cps
Cadmium	106-1	7626	7382	7922	7643	3.54	cps
Cadmium	111-1	5382	5206	5595	5394	3.61	cps
Calcium	43-1	15522474	15594621	16103739	15740278	2.01	cps
Calcium	44-1	247459310	249814156	253759463	250344310	1.27	cps
Carbon	12-1	9638216	10335418	10666827	10213487	5.14	cps
Carbon	12-2	71292	71693	72601	71862	0.93	cps
Chlorine	35-1	6419174	6672249	6776469	6622631	2.77	cps
Chlorine	35-2	28258	28117	27980	28119	0.49	cps
Chromium	52-2	2067	2114	1967	2049	3.66	cps
Cobalt	59-2	520	587	533	547	6.45	cps
Copper	63-2	16046	16012	16660	16239	2.24	cps
Dysprosium	156-1	40	103	107	83	45.08	cps
Dysprosium	156-2	27	30	43	33	26.45	cps
Erbium	164-1	157	153	137	149	7.20	cps
Erbium	164-2	63	43	67	58	21.85	cps
Gadolinium	160-1	177	163	217	186	14.96	cps
Gadolinium	160-2	57	43	63	54	18.71	cps
Holmium	165-1	18900685	19579221	19277649	19252518	1.77	cps
Holmium	165-2	7478323	7447402	7284851	7403525	1.40	cps
Indium	115-1	15064203	15149165	15322352	15178573	0.87	cps
Indium	115-2	1657927	1675331	1618105	1650454	1.78	cps
Iron	54-2	108156	109643	110839	109546	1.23	cps
Iron	56-2	2105779	2117282	2086692	2103251	0.73	cps
Iron	57-2	50807	50680	51944	51143	1.36	cps
Krypton	83-1	273	303	263	280	7.43	cps
Lead	206-1	7549	7659	7252	7487	2.81	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6235	6305	6805	6448	4.82	cps
Lead	208-1	29046	29076	29900	29341	1.65	cps
Lithium	6-1	8469482	8964466	8687646	8707198	2.85	cps
Magnesium	24-2	20794708	20483311	20928117	20735379	1.10	cps
Manganese	55-2	96829	94523	95584	95645	1.21	cps
Molybdenum	94-1	5975	5831	6098	5968	2.24	cps
Molybdenum	95-1	8243	8733	8726	8567	3.28	cps
Molybdenum	96-1	9166	9663	9617	9482	2.89	cps
Molybdenum	97-1	5128	5398	5638	5388	4.74	cps
Molybdenum	98-1	13877	14047	14054	13993	0.72	cps
Neodymium	150-1	100	77	73	83	17.44	cps
Neodymium	150-2	20	17	27	21	24.12	cps
Nickel	60-2	1227	1220	1373	1273	6.81	cps
Phosphorus	31-2	187	117	140	148	24.12	cps
Potassium	39-2	627720	622361	631410	627164	0.73	cps
Rhodium	103-1	13853351	14237046	13963742	14018046	1.41	cps
Rhodium	103-2	6041111	5907249	5866660	5938340	1.54	cps
Scandium	45-1	11009712	11213972	11128669	11117451	0.92	cps
Scandium	45-2	230323	231201	224661	228728	1.55	cps
Selenium	82-1	77	70	167	104	51.69	cps
Selenium	77-2	0	10	3	4	114.60	cps
Selenium	78-2	13	7	10	10	33.30	cps
Silicon	28-1	90327949	92645875	92409562	91794462	1.39	cps
Silver	107-1	1757	1703	1777	1746	2.17	cps
Silver	109-1	1293	1383	1363	1347	3.51	cps
Sodium	23-2	16338285	16639583	16565942	16514603	0.95	cps
Strontium	86-1	78712070	81358182	83140359	81070204	2.75	cps
Strontium	88-1	693201203	705609616	721699456	706836758	2.02	cps
Sulfur	34-1	21007613	21433635	21393714	21278321	1.11	cps
Terbium	159-1	19521631	19754525	19734325	19670160	0.66	cps
Terbium	159-2	7225026	7190883	6958798	7124902	2.03	cps
Thallium	203-1	430	457	343	410	14.45	cps
Thallium	205-1	953	940	810	901	8.79	cps
Tin	118-1	9940	10588	10788	10439	4.24	cps
Titanium	47-1	2540	2757	2900	2733	6.63	cps
Uranium	238-1	41715	43006	42698	42473	1.59	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-03	Instrumnet Name :	P8
Client Sample ID :	ME2955	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:55:28	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	700	677	677	684	1.97	cps
Ytterbium	172-1	103	127	127	119	11.33	cps
Ytterbium	172-2	77	60	77	71	13.53	cps
Ytterbium	176-1	1980	1840	1803	1875	4.97	cps
Ytterbium	176-2	317	347	313	326	5.64	cps
Yttrium	89-1	26910361	27307144	27274842	27164116	0.81	cps
Yttrium	89-2	2188947	2139098	2083492	2137179	2.47	cps
Zinc	66-2	44975	46138	45784	45632	1.31	cps
Zirconium	90-1	2664	2954	3047	2888	6.92	cps
Zirconium	91-1	563	523	730	606	18.10	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	427	483	380	430	12.03	cps
Antimony	121-1	230	217	247	231	6.50	cps
Arsenic	75-2	80	103	107	97	15.03	cps
Barium	135-1	63012	65108	64503	64208	1.68	cps
Barium	137-1	107990	112798	111777	110855	2.29	cps
Beryllium	9-1	400	437	482	440	9.39	cps
Bismuth	209-1	11508043	12041298	11780436	11776592	2.26	cps
Bismuth	209-2	5147984	5192788	5201106	5180626	0.55	cps
Bromine	81-1	133618	158893	171302	154604	12.42	cps
Cadmium	108-1	23	33	30	29	17.63	cps
Cadmium	106-1	7455	8099	7719	7758	4.17	cps
Cadmium	111-1	5229	5666	5416	5437	4.03	cps
Calcium	43-1	16073916	16581526	16356552	16337331	1.56	cps
Calcium	44-1	262613936	263761863	262786023	263053941	0.24	cps
Carbon	12-1	9587627	10073710	10442651	10034663	4.27	cps
Carbon	12-2	70575	71858	70535	70989	1.06	cps
Chlorine	35-1	5667892	6234124	6222819	6041612	5.36	cps
Chlorine	35-2	26481	25743	26488	26237	1.63	cps
Chromium	52-2	2937	2807	2857	2867	2.29	cps
Cobalt	59-2	867	803	780	817	5.49	cps
Copper	63-2	5041	5504	5351	5299	4.46	cps
Dysprosium	156-1	53	87	47	62	34.44	cps
Dysprosium	156-2	10	10	30	17	69.28	cps
Erbium	164-1	163	180	163	169	5.70	cps
Erbium	164-2	30	67	60	52	37.40	cps
Gadolinium	160-1	203	143	137	161	22.79	cps
Gadolinium	160-2	47	30	53	43	27.73	cps
Holmium	165-1	19383548	20284386	19641353	19769762	2.35	cps
Holmium	165-2	7374790	7403033	7194581	7324134	1.54	cps
Indium	115-1	15025781	16104330	15471443	15533851	3.49	cps
Indium	115-2	1656477	1683027	1656169	1665225	0.93	cps
Iron	54-2	97131	98214	95792	97046	1.25	cps
Iron	56-2	1856296	1867964	1783438	1835900	2.50	cps
Iron	57-2	44760	44653	44262	44558	0.59	cps
Krypton	83-1	327	330	330	329	0.59	cps
Lead	206-1	2760	2787	2614	2720	3.43	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2317	2350	2370	2346	1.15	cps
Lead	208-1	10458	10698	10635	10597	1.17	cps
Lithium	6-1	8985521	9314300	8983361	9094394	2.09	cps
Magnesium	24-2	21060697	21163149	20535256	20919701	1.61	cps
Manganese	55-2	105248	104465	102582	104098	1.32	cps
Molybdenum	94-1	5718	5778	5781	5759	0.62	cps
Molybdenum	95-1	8609	9403	9350	9121	4.87	cps
Molybdenum	96-1	9603	9800	10114	9839	2.62	cps
Molybdenum	97-1	5321	5905	5681	5636	5.22	cps
Molybdenum	98-1	14337	14855	14735	14642	1.85	cps
Neodymium	150-1	57	80	63	67	18.03	cps
Neodymium	150-2	7	7	13	9	43.25	cps
Nickel	60-2	1637	1413	1490	1513	7.50	cps
Phosphorus	31-2	100	103	120	108	9.94	cps
Potassium	39-2	637399	631154	627776	632110	0.77	cps
Rhodium	103-1	14284734	14838344	14500477	14541185	1.92	cps
Rhodium	103-2	5946298	5958602	5977436	5960779	0.26	cps
Scandium	45-1	10956576	11864650	11389855	11403694	3.98	cps
Scandium	45-2	228421	231965	230480	230289	0.77	cps
Selenium	82-1	60	13	33	36	65.87	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	10	7	8	24.71	cps
Silicon	28-1	94684519	97068812	94522492	95425274	1.49	cps
Silver	107-1	563	553	623	580	6.53	cps
Silver	109-1	330	307	307	314	4.29	cps
Sodium	23-2	17136335	16899601	16611906	16882614	1.56	cps
Strontium	86-1	82337987	85721495	84634077	84231187	2.05	cps
Strontium	88-1	705678229	735343269	724033163	721684887	2.07	cps
Sulfur	34-1	21542676	22571123	22052080	22055293	2.33	cps
Terbium	159-1	19483662	20441727	20104427	20009938	2.43	cps
Terbium	159-2	7124202	7011645	7144622	7093490	1.01	cps
Thallium	203-1	380	367	403	383	4.84	cps
Thallium	205-1	850	913	907	890	3.91	cps
Tin	118-1	8950	9173	8950	9024	1.43	cps
Titanium	47-1	1743	1850	1920	1838	4.84	cps
Uranium	238-1	43176	44969	45347	44498	2.61	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-04	Instrumnet Name :	P8
Client Sample ID :	ME2956	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 13:58:43	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	87	100	127	104	19.50	cps
Ytterbium	172-1	157	160	127	148	12.42	cps
Ytterbium	172-2	30	70	70	57	40.75	cps
Ytterbium	176-1	1790	1977	1957	1908	5.37	cps
Ytterbium	176-2	287	373	353	338	13.43	cps
Yttrium	89-1	27362686	29085396	28229610	28225897	3.05	cps
Yttrium	89-2	2153141	2131134	2114837	2133037	0.90	cps
Zinc	66-2	757	773	710	747	4.40	cps
Zirconium	90-1	1820	1960	1903	1895	3.72	cps
Zirconium	91-1	360	413	363	379	7.88	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1020	967	1070	1019	5.07	cps
Antimony	121-1	530	587	597	571	6.30	cps
Arsenic	75-2	150	110	140	133	15.61	cps
Barium	135-1	178412	179190	183921	180508	1.65	cps
Barium	137-1	310422	314799	319335	314852	1.42	cps
Beryllium	9-1	441	495	460	465	5.86	cps
Bismuth	209-1	11292016	10993296	10589719	10958344	3.22	cps
Bismuth	209-2	4978505	5012901	4984951	4992119	0.37	cps
Bromine	81-1	168063	196416	213583	192688	11.93	cps
Cadmium	108-1	83	67	67	72	13.32	cps
Cadmium	106-1	7976	7846	7355	7726	4.23	cps
Cadmium	111-1	5598	5549	5182	5443	4.17	cps
Calcium	43-1	26933713	27298275	27957231	27396407	1.89	cps
Calcium	44-1	435301767	436590820	447116273	439669620	1.47	cps
Carbon	12-1	9798828	10408902	10829579	10345770	5.01	cps
Carbon	12-2	73057	73429	74189	73558	0.78	cps
Chlorine	35-1	33783871	37277539	39333788	36798399	7.62	cps
Chlorine	35-2	170005	171985	171800	171263	0.64	cps
Chromium	52-2	2807	2557	2737	2700	4.78	cps
Cobalt	59-2	7369	7435	7399	7401	0.45	cps
Copper	63-2	6908	6842	7462	7071	4.82	cps
Dysprosium	156-1	67	53	57	59	11.79	cps
Dysprosium	156-2	10	20	27	19	44.42	cps
Erbium	164-1	150	133	167	150	11.11	cps
Erbium	164-2	57	47	50	51	9.96	cps
Gadolinium	160-1	140	207	173	173	19.23	cps
Gadolinium	160-2	33	53	37	41	26.06	cps
Holmium	165-1	19039955	19241046	18282372	18854458	2.68	cps
Holmium	165-2	7335150	7373349	7206199	7304899	1.20	cps
Indium	115-1	15227355	15265529	14605958	15032947	2.46	cps
Indium	115-2	1620607	1622794	1624700	1622700	0.13	cps
Iron	54-2	139729	140109	140779	140206	0.38	cps
Iron	56-2	2703222	2701677	2628404	2677767	1.60	cps
Iron	57-2	65536	64920	66337	65598	1.08	cps
Krypton	83-1	277	307	383	322	17.07	cps
Lead	206-1	2924	3014	2907	2948	1.95	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2297	2564	2587	2482	6.49	cps
Lead	208-1	11302	11562	11769	11544	2.03	cps
Lithium	6-1	8834809	8982057	8615206	8810691	2.10	cps
Magnesium	24-2	27407382	27965641	27211668	27528230	1.42	cps
Manganese	55-2	43205	43653	43329	43396	0.53	cps
Molybdenum	94-1	59527	61455	62704	61229	2.61	cps
Molybdenum	95-1	99909	101994	102354	101419	1.30	cps
Molybdenum	96-1	108684	108956	111348	109663	1.34	cps
Molybdenum	97-1	63789	64231	63896	63972	0.36	cps
Molybdenum	98-1	160952	161629	167586	163389	2.23	cps
Neodymium	150-1	60	77	97	78	23.61	cps
Neodymium	150-2	10	30	20	20	50.00	cps
Nickel	60-2	9126	9403	9340	9290	1.56	cps
Phosphorus	31-2	123	107	107	112	8.58	cps
Potassium	39-2	941574	952410	949605	947863	0.59	cps
Rhodium	103-1	13526850	13748416	13384916	13553394	1.35	cps
Rhodium	103-2	5724503	5797681	5707717	5743300	0.83	cps
Scandium	45-1	11284679	11083379	10714477	11027512	2.62	cps
Scandium	45-2	231025	230397	225355	228926	1.36	cps
Selenium	82-1	163	190	100	151	30.59	cps
Selenium	77-2	0	3	7	3	100.05	cps
Selenium	78-2	3	10	13	9	57.30	cps
Silicon	28-1	95487445	97111295	97358255	96652332	1.05	cps
Silver	107-1	753	897	933	861	11.05	cps
Silver	109-1	417	533	667	539	23.21	cps
Sodium	23-2	99358899	100409765	99328312	99698992	0.62	cps
Strontium	86-1	78778374	79855604	80566402	79733460	1.13	cps
Strontium	88-1	675057350	686979776	695805750	685947625	1.52	cps
Sulfur	34-1	29788503	30250264	30579175	30205981	1.31	cps
Terbium	159-1	19988796	19497008	19103424	19529743	2.27	cps
Terbium	159-2	6954418	7022923	6936954	6971431	0.65	cps
Thallium	203-1	553	570	603	576	4.42	cps
Thallium	205-1	1327	1330	1267	1308	2.73	cps
Tin	118-1	11668	11468	11678	11605	1.02	cps
Titanium	47-1	2137	2114	2170	2140	1.33	cps
Uranium	238-1	3854	3817	3981	3884	2.21	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-05	Instrumnet Name :	P8
Client Sample ID :	ME2957	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:01:56	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	800	700	713	738	7.36	cps
Ytterbium	172-1	120	143	107	123	15.05	cps
Ytterbium	172-2	57	27	57	47	37.11	cps
Ytterbium	176-1	1984	1933	1800	1906	4.97	cps
Ytterbium	176-2	277	270	290	279	3.65	cps
Yttrium	89-1	27530004	27441994	26031005	27001001	3.12	cps
Yttrium	89-2	2120330	2153211	2101610	2125051	1.23	cps
Zinc	66-2	883	787	823	831	5.87	cps
Zirconium	90-1	5494	5344	5798	5546	4.17	cps
Zirconium	91-1	1177	1123	1257	1186	5.66	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	537	570	653	587	10.24	cps
Antimony	121-1	210	237	240	229	7.19	cps
Arsenic	75-2	1863	1707	1700	1757	5.26	cps
Barium	135-1	203669	204065	206434	204722	0.73	cps
Barium	137-1	354859	358079	354554	355831	0.55	cps
Beryllium	9-1	424	431	394	416	4.77	cps
Bismuth	209-1	11453884	11600410	11481657	11511984	0.68	cps
Bismuth	209-2	4936954	4944720	4754465	4878713	2.21	cps
Bromine	81-1	171739	190681	201296	187906	7.97	cps
Cadmium	108-1	53	23	37	38	39.79	cps
Cadmium	106-1	8426	8343	7986	8251	2.83	cps
Cadmium	111-1	5891	5883	5641	5805	2.45	cps
Calcium	43-1	24024487	23693829	23715646	23811321	0.78	cps
Calcium	44-1	383556114	379233008	379387368	380725497	0.64	cps
Carbon	12-1	14005492	14584386	14717826	14435902	2.62	cps
Carbon	12-2	100024	101363	100464	100617	0.68	cps
Chlorine	35-1	7902030	8044034	7942119	7962728	0.92	cps
Chlorine	35-2	32727	32777	31995	32500	1.35	cps
Chromium	52-2	6251	6278	6255	6261	0.23	cps
Cobalt	59-2	1003	1033	1010	1016	1.55	cps
Copper	63-2	5111	5054	5284	5150	2.33	cps
Dysprosium	156-1	347	303	317	322	6.89	cps
Dysprosium	156-2	93	97	113	101	10.60	cps
Erbium	164-1	327	367	313	336	8.27	cps
Erbium	164-2	120	130	73	108	28.07	cps
Gadolinium	160-1	340	370	353	354	4.24	cps
Gadolinium	160-2	157	127	107	130	19.36	cps
Holmium	165-1	19151474	19942226	19456810	19516837	2.04	cps
Holmium	165-2	7089274	7075827	6833184	6999428	2.06	cps
Indium	115-1	15288214	15719264	15133989	15380489	1.97	cps
Indium	115-2	1594670	1578756	1468518	1547315	4.44	cps
Iron	54-2	837963	852817	840076	843619	0.95	cps
Iron	56-2	15915137	15984187	16129155	16009493	0.68	cps
Iron	57-2	389608	391412	388768	389929	0.35	cps
Krypton	83-1	330	330	310	323	3.57	cps
Lead	206-1	3417	3270	3370	3353	2.24	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2927	3260	2740	2976	8.85	cps
Lead	208-1	13770	13826	13250	13615	2.34	cps
Lithium	6-1	8936505	9293694	8935806	9055335	2.28	cps
Magnesium	24-2	31463958	31592842	31069033	31375278	0.87	cps
Manganese	55-2	767388	769605	769905	768966	0.18	cps
Molybdenum	94-1	14875	14074	14114	14354	3.14	cps
Molybdenum	95-1	22251	22471	22078	22267	0.89	cps
Molybdenum	96-1	23417	23867	24108	23797	1.47	cps
Molybdenum	97-1	13910	13870	14197	13993	1.27	cps
Molybdenum	98-1	34941	35251	35181	35124	0.46	cps
Neodymium	150-1	463	390	387	413	10.48	cps
Neodymium	150-2	103	113	90	102	11.45	cps
Nickel	60-2	2080	2050	2090	2074	1.00	cps
Phosphorus	31-2	177	190	153	173	10.71	cps
Potassium	39-2	2400848	2390286	2361195	2384109	0.86	cps
Rhodium	103-1	14124256	14477624	14222274	14274718	1.28	cps
Rhodium	103-2	5720162	5662140	5481738	5621347	2.21	cps
Scandium	45-1	11407048	11565458	11585359	11519288	0.85	cps
Scandium	45-2	222710	221192	214098	219333	2.10	cps
Selenium	82-1	90	213	93	132	53.14	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	3	0	7	3	100.05	cps
Silicon	28-1	102931185	102440535	101656108	102342610	0.63	cps
Silver	107-1	590	647	667	634	6.27	cps
Silver	109-1	377	400	327	368	10.19	cps
Sodium	23-2	47043948	46712304	46150856	46635703	0.97	cps
Strontium	86-1	64915496	65433892	65066991	65138793	0.41	cps
Strontium	88-1	558085418	563248592	556923538	559419183	0.60	cps
Sulfur	34-1	39679428	38802644	39350538	39277537	1.13	cps
Terbium	159-1	19964390	20494511	20086385	20181762	1.38	cps
Terbium	159-2	6877537	6816988	6625342	6773289	1.94	cps
Thallium	203-1	457	390	380	409	10.19	cps
Thallium	205-1	933	837	843	871	6.20	cps
Tin	118-1	8356	8833	8566	8585	2.78	cps
Titanium	47-1	2254	2044	2057	2118	5.55	cps
Uranium	238-1	26591	26554	26478	26541	0.22	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-06	Instrumnet Name :	P8
Client Sample ID :	ME2960	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:05:12	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	633	580	620	611	4.54	cps
Ytterbium	172-1	210	213	270	231	14.59	cps
Ytterbium	172-2	113	83	67	88	26.94	cps
Ytterbium	176-1	1904	1924	1890	1906	0.88	cps
Ytterbium	176-2	350	307	343	333	7.00	cps
Yttrium	89-1	27512784	28697857	27826656	28012432	2.19	cps
Yttrium	89-2	2108562	2044107	1963205	2038625	3.57	cps
Zinc	66-2	713	730	730	724	1.33	cps
Zirconium	90-1	3957	4147	4091	4065	2.40	cps
Zirconium	91-1	930	900	897	909	2.02	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1883	2054	1777	1905	7.33	cps
Antimony	121-1	390	400	470	420	10.38	cps
Arsenic	75-2	40	30	23	31	26.97	cps
Barium	135-1	43443	44051	43590	43695	0.73	cps
Barium	137-1	76334	75972	76780	76362	0.53	cps
Beryllium	9-1	424	424	360	402	9.14	cps
Bismuth	209-1	11420111	11540604	10912225	11290980	2.95	cps
Bismuth	209-2	4605428	5010280	4989070	4868259	4.68	cps
Bromine	81-1	119838	137573	146189	134534	9.99	cps
Cadmium	108-1	23	30	57	37	48.11	cps
Cadmium	106-1	8072	8186	7896	8051	1.82	cps
Cadmium	111-1	5684	5746	5551	5660	1.76	cps
Calcium	43-1	21980765	22033064	22572381	22195403	1.48	cps
Calcium	44-1	361590421	352107781	359769861	357822688	1.41	cps
Carbon	12-1	9685022	10354977	10804694	10281564	5.48	cps
Carbon	12-2	72156	72460	73891	72836	1.27	cps
Chlorine	35-1	5370430	5507420	5751743	5543198	3.48	cps
Chlorine	35-2	23643	24144	23850	23879	1.05	cps
Chromium	52-2	2604	2790	2810	2735	4.17	cps
Cobalt	59-2	420	433	440	431	2.36	cps
Copper	63-2	4994	5001	5108	5034	1.26	cps
Dysprosium	156-1	250	183	227	220	15.38	cps
Dysprosium	156-2	67	83	80	77	11.50	cps
Erbium	164-1	313	307	257	292	10.60	cps
Erbium	164-2	87	113	100	100	13.33	cps
Gadolinium	160-1	290	337	327	318	7.73	cps
Gadolinium	160-2	87	103	103	98	9.84	cps
Holmium	165-1	19295868	19403658	18691055	19130194	2.01	cps
Holmium	165-2	6644312	7045441	7101835	6930529	3.60	cps
Indium	115-1	15394770	15326438	14711260	15144156	2.49	cps
Indium	115-2	1417127	1576420	1572419	1521989	5.97	cps
Iron	54-2	464239	467362	460171	463924	0.78	cps
Iron	56-2	8889437	8745378	8791820	8808878	0.83	cps
Iron	57-2	214713	213810	212044	213522	0.64	cps
Krypton	83-1	310	380	303	331	12.83	cps
Lead	206-1	2784	2634	2520	2646	4.99	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2317	2287	2197	2267	2.76	cps
Lead	208-1	10912	10522	10382	10605	2.59	cps
Lithium	6-1	8949891	8882250	8654019	8828720	1.76	cps
Magnesium	24-2	28233897	28128524	28084736	28149052	0.27	cps
Manganese	55-2	136676	132949	135284	134970	1.40	cps
Molybdenum	94-1	6008	6108	6158	6091	1.25	cps
Molybdenum	95-1	8493	8213	8529	8412	2.06	cps
Molybdenum	96-1	9400	9073	9053	9175	2.12	cps
Molybdenum	97-1	5464	5181	5191	5279	3.05	cps
Molybdenum	98-1	13367	13347	13914	13542	2.38	cps
Neodymium	150-1	273	327	283	294	9.63	cps
Neodymium	150-2	77	77	43	66	29.36	cps
Nickel	60-2	1297	1240	1283	1273	2.33	cps
Phosphorus	31-2	160	133	113	136	17.27	cps
Potassium	39-2	601883	601381	598076	600447	0.34	cps
Rhodium	103-1	14345074	14092556	13682428	14040019	2.38	cps
Rhodium	103-2	5277148	5660600	5689497	5542415	4.15	cps
Scandium	45-1	11251235	11350222	10797577	11133011	2.65	cps
Scandium	45-2	203807	221156	223539	216167	4.98	cps
Selenium	82-1	113	87	183	128	39.07	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	13	17	13	25.01	cps
Silicon	28-1	89210825	91137832	89180009	89842889	1.25	cps
Silver	107-1	503	510	523	512	1.99	cps
Silver	109-1	273	313	373	320	15.73	cps
Sodium	23-2	20203790	20030931	19744261	19992994	1.16	cps
Strontium	86-1	69778334	69102497	70785074	69888635	1.21	cps
Strontium	88-1	598901191	592488285	607447218	599612231	1.25	cps
Sulfur	34-1	32965025	33045159	33214188	33074790	0.38	cps
Terbium	159-1	19784679	19768324	19177242	19576748	1.77	cps
Terbium	159-2	6308692	6869562	6884654	6687636	4.91	cps
Thallium	203-1	393	427	407	409	4.10	cps
Thallium	205-1	917	883	933	911	2.79	cps
Tin	118-1	9380	8810	9297	9162	3.36	cps
Titanium	47-1	2964	3024	3200	3063	4.02	cps
Uranium	238-1	18116	17773	17379	17756	2.08	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-07	Instrumnet Name :	P8
Client Sample ID :	ME2961	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:08:26	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	433	490	383	436	12.25	cps
Ytterbium	172-1	123	223	160	169	29.95	cps
Ytterbium	172-2	57	80	60	66	19.25	cps
Ytterbium	176-1	1997	2030	1897	1975	3.51	cps
Ytterbium	176-2	307	353	303	321	8.71	cps
Yttrium	89-1	27695887	27863332	26793358	27450859	2.10	cps
Yttrium	89-2	1900596	2069892	2061003	2010497	4.74	cps
Zinc	66-2	663	750	647	687	8.08	cps
Zirconium	90-1	3014	3167	3187	3123	3.04	cps
Zirconium	91-1	650	607	600	619	4.39	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	710	730	793	744	5.84	cps
Antimony	121-1	393	417	423	411	3.83	cps
Arsenic	75-2	47	57	40	48	17.56	cps
Barium	135-1	61586	62678	63907	62723	1.85	cps
Barium	137-1	107795	109317	110463	109192	1.23	cps
Beryllium	9-1	435	441	449	442	1.56	cps
Bismuth	209-1	10321626	11958038	11325007	11201557	7.37	cps
Bismuth	209-2	5052147	5059972	5210429	5107516	1.75	cps
Bromine	81-1	109532	126602	137227	124453	11.23	cps
Cadmium	108-1	37	27	43	36	23.58	cps
Cadmium	106-1	7352	8643	7929	7975	8.11	cps
Cadmium	111-1	5147	6055	5550	5584	8.14	cps
Calcium	43-1	20250046	20677128	20871595	20599590	1.54	cps
Calcium	44-1	327146308	336833102	334011015	332663475	1.50	cps
Carbon	12-1	10303033	10924315	11420177	10882509	5.14	cps
Carbon	12-2	74919	76775	76018	75904	1.23	cps
Chlorine	35-1	5267512	5836310	5986102	5696641	6.65	cps
Chlorine	35-2	25342	25633	26120	25698	1.53	cps
Chromium	52-2	4321	4444	4424	4396	1.51	cps
Cobalt	59-2	480	553	440	491	11.70	cps
Copper	63-2	84569	85415	84747	84910	0.52	cps
Dysprosium	156-1	147	117	157	140	14.87	cps
Dysprosium	156-2	50	43	63	52	19.50	cps
Erbium	164-1	207	157	190	184	13.80	cps
Erbium	164-2	60	100	93	84	25.38	cps
Gadolinium	160-1	227	267	227	240	9.62	cps
Gadolinium	160-2	53	70	83	69	21.82	cps
Holmium	165-1	17353453	20530051	19444616	19109373	8.45	cps
Holmium	165-2	7207603	7185326	7319560	7237496	0.99	cps
Indium	115-1	13740483	15989628	15367136	15032416	7.73	cps
Indium	115-2	1612299	1630093	1644130	1628841	0.98	cps
Iron	54-2	252198	250825	253476	252166	0.53	cps
Iron	56-2	4744922	4785724	4790790	4773812	0.53	cps
Iron	57-2	115352	114404	117321	115692	1.29	cps
Krypton	83-1	313	323	303	313	3.19	cps
Lead	206-1	2790	2457	2577	2608	6.48	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2157	2204	2294	2218	3.13	cps
Lead	208-1	10382	10048	10258	10229	1.65	cps
Lithium	6-1	8083298	9402494	8883690	8789827	7.56	cps
Magnesium	24-2	25061122	25067699	25261883	25130235	0.45	cps
Manganese	55-2	75012	74781	76024	75272	0.88	cps
Molybdenum	94-1	3667	3741	3927	3778	3.55	cps
Molybdenum	95-1	4984	5168	4864	5005	3.05	cps
Molybdenum	96-1	5238	5338	5655	5410	4.02	cps
Molybdenum	97-1	3114	3114	3210	3146	1.77	cps
Molybdenum	98-1	7739	8122	8132	7998	2.81	cps
Neodymium	150-1	113	150	173	146	20.78	cps
Neodymium	150-2	47	40	30	39	21.57	cps
Nickel	60-2	5181	5058	5141	5127	1.23	cps
Phosphorus	31-2	160	147	107	138	20.14	cps
Potassium	39-2	971811	969687	987282	976260	0.98	cps
Rhodium	103-1	12523957	14754107	13890421	13722828	8.19	cps
Rhodium	103-2	5831812	5856421	5915406	5867880	0.73	cps
Scandium	45-1	10082761	11708710	11177847	10989773	7.54	cps
Scandium	45-2	229067	227666	230926	229220	0.71	cps
Selenium	82-1	77	67	177	107	57.02	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	13	13	14	13.35	cps
Silicon	28-1	77420187	78730399	79026445	78392344	1.09	cps
Silver	107-1	533	493	530	519	4.28	cps
Silver	109-1	300	323	323	316	4.27	cps
Sodium	23-2	24939539	24642702	25062691	24881644	0.87	cps
Strontium	86-1	74913721	75247119	76088974	75416604	0.80	cps
Strontium	88-1	649624190	640913964	652654124	647730759	0.94	cps
Sulfur	34-1	29505514	30195788	30124474	29941925	1.27	cps
Terbium	159-1	17716671	20591248	19515883	19274601	7.54	cps
Terbium	159-2	6935366	6894307	7110352	6980008	1.64	cps
Thallium	203-1	350	377	290	339	13.10	cps
Thallium	205-1	833	900	947	893	6.38	cps
Tin	118-1	10894	10828	11231	10984	1.97	cps
Titanium	47-1	1943	1813	2144	1967	8.46	cps
Uranium	238-1	5088	5104	5244	5146	1.67	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-08	Instrumnet Name :	P8
Client Sample ID :	ME2962	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:11:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	393	410	373	392	4.68	cps
Ytterbium	172-1	150	160	157	156	3.27	cps
Ytterbium	172-2	67	60	83	70	17.17	cps
Ytterbium	176-1	1713	2087	1837	1879	10.12	cps
Ytterbium	176-2	283	333	293	303	8.72	cps
Yttrium	89-1	24607664	29290129	27480495	27126096	8.70	cps
Yttrium	89-2	2091965	2108290	2130093	2110116	0.91	cps
Zinc	66-2	907	1037	943	962	6.97	cps
Zirconium	90-1	2644	2797	2887	2776	4.43	cps
Zirconium	91-1	573	583	567	574	1.46	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	390	363	400	384	4.93	cps
Antimony	121-1	270	223	220	238	11.76	cps
Arsenic	75-2	43	50	60	51	16.42	cps
Barium	135-1	64338	65507	61650	63832	3.10	cps
Barium	137-1	112668	114846	107970	111828	3.14	cps
Beryllium	9-1	397	441	396	412	6.22	cps
Bismuth	209-1	12091547	11698779	10609459	11466595	6.70	cps
Bismuth	209-2	4598529	4628865	4686028	4637807	0.96	cps
Bromine	81-1	121331	140391	147458	136393	9.91	cps
Cadmium	108-1	37	33	17	29	37.08	cps
Cadmium	106-1	8586	8172	7415	8058	7.37	cps
Cadmium	111-1	6028	5747	5206	5660	7.38	cps
Calcium	43-1	26239741	26668025	25892293	26266687	1.48	cps
Calcium	44-1	423886674	434292380	414337127	424172060	2.35	cps
Carbon	12-1	9347773	10056481	10262050	9888768	4.85	cps
Carbon	12-2	67752	69902	69966	69206	1.82	cps
Chlorine	35-1	32429565	36506462	35303846	34746624	6.03	cps
Chlorine	35-2	146627	151379	154838	150948	2.73	cps
Chromium	52-2	1723	1580	1640	1648	4.37	cps
Cobalt	59-2	473	493	483	483	2.07	cps
Copper	63-2	5548	5801	5861	5737	2.90	cps
Dysprosium	156-1	67	97	47	70	35.95	cps
Dysprosium	156-2	7	13	27	16	65.47	cps
Erbium	164-1	177	130	123	143	20.27	cps
Erbium	164-2	43	50	40	44	11.46	cps
Gadolinium	160-1	173	160	137	157	11.85	cps
Gadolinium	160-2	27	57	30	38	43.52	cps
Holmium	165-1	20812026	20294726	18380374	19829042	6.46	cps
Holmium	165-2	6688551	6768090	6782091	6746244	0.75	cps
Indium	115-1	16178632	15956761	14639949	15591781	5.33	cps
Indium	115-2	1421869	1456944	1466711	1448508	1.63	cps
Iron	54-2	206458	209473	208569	208167	0.74	cps
Iron	56-2	3899318	3921990	3957567	3926292	0.75	cps
Iron	57-2	94869	96735	98121	96575	1.69	cps
Krypton	83-1	307	353	403	354	13.64	cps
Lead	206-1	2810	2697	2674	2727	2.68	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2210	2297	2180	2229	2.72	cps
Lead	208-1	10405	10735	10685	10608	1.68	cps
Lithium	6-1	9414920	9338026	8520189	9091045	5.45	cps
Magnesium	24-2	36296656	37074544	37821639	37064279	2.06	cps
Manganese	55-2	75833	78950	79047	77943	2.35	cps
Molybdenum	94-1	4084	4421	4151	4218	4.23	cps
Molybdenum	95-1	6345	6618	5958	6307	5.26	cps
Molybdenum	96-1	6855	6995	6768	6873	1.67	cps
Molybdenum	97-1	3967	4021	4041	4010	0.95	cps
Molybdenum	98-1	10047	10164	9513	9908	3.50	cps
Neodymium	150-1	53	110	100	88	34.46	cps
Neodymium	150-2	17	7	10	11	45.82	cps
Nickel	60-2	1100	1150	1063	1104	3.94	cps
Phosphorus	31-2	133	137	127	132	3.85	cps
Potassium	39-2	711370	727594	733193	724052	1.57	cps
Rhodium	103-1	14954696	14495768	13258309	14236258	6.16	cps
Rhodium	103-2	5294756	5334697	5426815	5352089	1.27	cps
Scandium	45-1	12003018	11961223	10796075	11586772	5.91	cps
Scandium	45-2	209012	214829	212978	212273	1.40	cps
Selenium	82-1	120	107	70	99	26.18	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	13	13	7	11	34.61	cps
Silicon	28-1	116297262	116918638	112090528	115102143	2.28	cps
Silver	107-1	740	883	827	817	8.84	cps
Silver	109-1	340	393	557	430	26.25	cps
Sodium	23-2	94341755	96022435	97651345	96005179	1.72	cps
Strontium	86-1	79763912	80502514	77039196	79101874	2.31	cps
Strontium	88-1	677358430	697520070	662030257	678969585	2.62	cps
Sulfur	34-1	37398496	37967887	36259994	37208793	2.34	cps
Terbium	159-1	21123181	20564303	18810893	20166126	5.98	cps
Terbium	159-2	6452619	6588133	6535431	6525394	1.05	cps
Thallium	203-1	323	280	347	317	10.68	cps
Thallium	205-1	757	777	907	813	10.01	cps
Tin	118-1	9593	9680	8903	9392	4.53	cps
Titanium	47-1	2324	2190	2027	2180	6.82	cps
Uranium	238-1	12800	12640	11769	12403	4.47	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:14:56	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	87	93	93	91	4.22	cps
Ytterbium	172-1	143	117	117	126	12.26	cps
Ytterbium	172-2	47	43	57	49	14.20	cps
Ytterbium	176-1	2027	1807	1687	1840	9.37	cps
Ytterbium	176-2	263	350	310	308	14.09	cps
Yttrium	89-1	29748524	28699222	26001565	28149770	6.87	cps
Yttrium	89-2	1901231	2016515	1996416	1971387	3.12	cps
Zinc	66-2	660	587	717	654	9.96	cps
Zirconium	90-1	1707	1713	1633	1685	2.64	cps
Zirconium	91-1	347	360	423	377	10.87	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	393	427	353	391	9.39	cps
Antimony	121-1	243	287	247	259	9.31	cps
Arsenic	75-2	53	63	40	52	22.41	cps
Barium	135-1	64288	63411	62835	63511	1.15	cps
Barium	137-1	109865	110839	110661	110455	0.47	cps
Beryllium	9-1	417	404	374	398	5.62	cps
Bismuth	209-1	11488244	11067605	11040594	11198814	2.24	cps
Bismuth	209-2	4846419	4773802	4803074	4807765	0.76	cps
Bromine	81-1	118884	140519	148932	136112	11.39	cps
Cadmium	108-1	23	40	23	29	33.32	cps
Cadmium	106-1	8059	7532	7142	7578	6.07	cps
Cadmium	111-1	5658	5271	5026	5319	5.99	cps
Calcium	43-1	25880572	26261880	26056100	26066184	0.73	cps
Calcium	44-1	417344287	424249860	419678207	420424118	0.84	cps
Carbon	12-1	8947935	9646905	9974490	9523110	5.51	cps
Carbon	12-2	69279	69349	69550	69393	0.20	cps
Chlorine	35-1	34489229	37136003	37816341	36480524	4.82	cps
Chlorine	35-2	158976	161129	163664	161256	1.46	cps
Chromium	52-2	2074	2120	2057	2084	1.58	cps
Cobalt	59-2	480	433	420	444	7.09	cps
Copper	63-2	22805	23556	23056	23139	1.65	cps
Dysprosium	156-1	80	43	67	63	29.31	cps
Dysprosium	156-2	33	33	17	28	34.63	cps
Erbium	164-1	127	133	190	150	23.20	cps
Erbium	164-2	47	43	53	48	10.66	cps
Gadolinium	160-1	143	157	157	152	5.06	cps
Gadolinium	160-2	33	73	40	49	43.84	cps
Holmium	165-1	19636981	18999531	18822446	19152986	2.24	cps
Holmium	165-2	6992095	6948650	7039087	6993277	0.65	cps
Indium	115-1	15568992	15245598	14877988	15230860	2.27	cps
Indium	115-2	1559694	1492327	1584778	1545600	3.09	cps
Iron	54-2	234724	237397	239890	237337	1.09	cps
Iron	56-2	4563119	4490946	4538488	4530851	0.81	cps
Iron	57-2	109708	109358	110853	109973	0.71	cps
Krypton	83-1	270	377	373	340	17.84	cps
Lead	206-1	2307	2237	2350	2298	2.49	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1903	2037	1970	1970	3.38	cps
Lead	208-1	9251	8808	9145	9068	2.55	cps
Lithium	6-1	8805565	8708648	8545386	8686533	1.51	cps
Magnesium	24-2	38722446	38237239	38299022	38419569	0.69	cps
Manganese	55-2	80307	80760	80247	80438	0.35	cps
Molybdenum	94-1	3991	4227	3991	4070	3.36	cps
Molybdenum	95-1	6145	6368	6098	6204	2.33	cps
Molybdenum	96-1	6928	7045	6682	6885	2.70	cps
Molybdenum	97-1	3901	3881	3937	3906	0.74	cps
Molybdenum	98-1	9807	9924	9790	9840	0.74	cps
Neodymium	150-1	57	73	50	60	20.03	cps
Neodymium	150-2	27	17	23	22	22.91	cps
Nickel	60-2	1157	1193	1297	1216	5.97	cps
Phosphorus	31-2	117	153	113	128	17.37	cps
Potassium	39-2	742557	755233	752897	750229	0.90	cps
Rhodium	103-1	13961657	13762284	13493726	13739223	1.71	cps
Rhodium	103-2	5476418	5426815	5503827	5469020	0.71	cps
Scandium	45-1	11521136	11193215	10732133	11148828	3.56	cps
Scandium	45-2	223214	214832	223363	220470	2.21	cps
Selenium	82-1	170	43	40	84	87.77	cps
Selenium	77-2	3	0	7	3	100.05	cps
Selenium	78-2	13	7	10	10	33.30	cps
Silicon	28-1	110585728	112472508	111819805	111626014	0.86	cps
Silver	107-1	690	823	833	782	10.23	cps
Silver	109-1	443	620	647	570	19.39	cps
Sodium	23-2	100200772	98574182	98242329	99005761	1.06	cps
Strontium	86-1	77618397	77463226	77641569	77574397	0.13	cps
Strontium	88-1	667575830	670368870	673805337	670583346	0.47	cps
Sulfur	34-1	36387446	36158893	36215731	36254023	0.33	cps
Terbium	159-1	19804878	19352546	19194467	19450631	1.63	cps
Terbium	159-2	6802845	6778246	6822882	6801324	0.33	cps
Thallium	203-1	297	227	310	278	16.12	cps
Thallium	205-1	723	647	680	683	5.63	cps
Tin	118-1	8823	8813	9170	8935	2.27	cps
Titanium	47-1	2514	2134	2080	2242	10.54	cps
Uranium	238-1	12009	12463	12590	12354	2.47	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:18:14	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	90	93	73	86	12.53	cps
Ytterbium	172-1	133	123	103	120	12.73	cps
Ytterbium	172-2	23	50	37	37	36.37	cps
Ytterbium	176-1	1637	1647	1843	1709	6.82	cps
Ytterbium	176-2	307	257	260	274	10.19	cps
Yttrium	89-1	27613175	27630773	26580254	27274734	2.21	cps
Yttrium	89-2	2006804	2046762	2054186	2035917	1.25	cps
Zinc	66-2	890	863	897	883	2.00	cps
Zirconium	90-1	1563	1650	1693	1636	4.05	cps
Zirconium	91-1	320	407	367	364	11.90	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	360	407	393	387	6.22	cps
Antimony	121-1	100	97	100	99	1.94	cps
Arsenic	75-2	17	10	23	17	39.99	cps
Barium	135-1	13297	13373	13136	13269	0.91	cps
Barium	137-1	24379	23614	23517	23837	1.98	cps
Beryllium	9-1	421	391	375	396	5.93	cps
Bismuth	209-1	12406977	12149008	12098329	12218105	1.35	cps
Bismuth	209-2	5247704	5495003	5518656	5420454	2.77	cps
Bromine	81-1	55560	57742	56727	56676	1.93	cps
Cadmium	108-1	23	30	23	26	15.07	cps
Cadmium	106-1	8483	8236	8263	8327	1.63	cps
Cadmium	111-1	5952	5781	5787	5840	1.66	cps
Calcium	43-1	5559931	5559777	5431143	5516950	1.35	cps
Calcium	44-1	89225569	90558869	86990942	88925126	2.03	cps
Carbon	12-1	7729166	8016437	7680444	7808682	2.33	cps
Carbon	12-2	49630	49643	50881	50051	1.44	cps
Chlorine	35-1	9599397	10038212	9777244	9804951	2.25	cps
Chlorine	35-2	40914	42018	41526	41486	1.33	cps
Chromium	52-2	1380	1287	1447	1371	5.86	cps
Cobalt	59-2	157	137	217	170	24.49	cps
Copper	63-2	6815	7349	7279	7147	4.06	cps
Dysprosium	156-1	17	37	23	26	39.85	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	103	103	110	106	3.65	cps
Erbium	164-2	30	30	37	32	11.95	cps
Gadolinium	160-1	110	147	123	127	14.65	cps
Gadolinium	160-2	17	33	33	28	34.63	cps
Holmium	165-1	20525459	19972971	19850413	20116281	1.79	cps
Holmium	165-2	7277241	7611300	7881762	7590101	3.99	cps
Indium	115-1	16578952	16047541	15996097	16207530	1.99	cps
Indium	115-2	1703936	1764002	1807340	1758426	2.95	cps
Iron	54-2	46750	48188	48783	47907	2.18	cps
Iron	56-2	852717	881447	898704	877622	2.65	cps
Iron	57-2	21456	21617	22287	21787	2.02	cps
Krypton	83-1	277	297	300	291	4.34	cps
Lead	206-1	2177	2107	1944	2076	5.77	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1703	1693	1697	1698	0.30	cps
Lead	208-1	8028	7844	7878	7917	1.23	cps
Lithium	6-1	9492785	9442757	9262487	9399343	1.29	cps
Magnesium	24-2	8161746	8383805	8703461	8416337	3.24	cps
Manganese	55-2	21126	21977	22291	21798	2.77	cps
Molybdenum	94-1	1423	1460	1233	1372	8.87	cps
Molybdenum	95-1	1510	1613	1653	1592	4.65	cps
Molybdenum	96-1	1747	1703	1697	1716	1.58	cps
Molybdenum	97-1	1070	1030	890	997	9.48	cps
Molybdenum	98-1	2447	2490	2457	2465	0.92	cps
Neodymium	150-1	17	27	23	22	22.91	cps
Neodymium	150-2	7	10	7	8	24.71	cps
Nickel	60-2	973	997	1070	1013	4.98	cps
Phosphorus	31-2	100	73	77	83	17.44	cps
Potassium	39-2	171007	174906	178503	174805	2.14	cps
Rhodium	103-1	15176679	15213158	14880731	15090189	1.21	cps
Rhodium	103-2	6112382	6383641	6441505	6312509	2.78	cps
Scandium	45-1	12109780	12063662	11760891	11978111	1.58	cps
Scandium	45-2	232796	239121	242479	238132	2.06	cps
Selenium	82-1	77	40	57	58	31.78	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	3	7	13	8	65.47	cps
Silicon	28-1	24326429	24926240	24113761	24455477	1.72	cps
Silver	107-1	563	637	600	600	6.11	cps
Silver	109-1	420	320	307	349	17.75	cps
Sodium	23-2	20981466	21399614	21735156	21372079	1.77	cps
Strontium	86-1	16740636	16901665	16457973	16700091	1.34	cps
Strontium	88-1	143748191	145285855	141390125	143474723	1.37	cps
Sulfur	34-1	8437985	8575562	8289403	8434317	1.70	cps
Terbium	159-1	20969092	20884540	20363195	20738942	1.58	cps
Terbium	159-2	7170444	7322984	7456563	7316664	1.96	cps
Thallium	203-1	307	337	303	316	5.82	cps
Thallium	205-1	770	657	787	738	9.59	cps
Tin	118-1	4888	4598	4477	4654	4.53	cps
Titanium	47-1	747	680	743	723	5.19	cps
Uranium	238-1	2604	2760	2580	2648	3.70	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 14:21:29	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	20	43	28	48.49	cps
Ytterbium	172-1	127	133	120	127	5.27	cps
Ytterbium	172-2	63	33	87	61	43.76	cps
Ytterbium	176-1	1957	1940	1934	1944	0.62	cps
Ytterbium	176-2	320	310	333	321	3.64	cps
Yttrium	89-1	29690748	29738308	28739565	29389540	1.92	cps
Yttrium	89-2	2173982	2246527	2237155	2219221	1.78	cps
Zinc	66-2	647	723	727	699	6.48	cps
Zirconium	90-1	1143	1150	1230	1175	4.11	cps
Zirconium	91-1	213	200	213	209	3.69	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	150068	152193	152887	151716	0.97	cps
Antimony	121-1	1822016	1805463	1842762	1823413	1.02	cps
Arsenic	75-2	15636	15245	15355	15412	1.31	cps
Barium	135-1	8421172	8574788	8615105	8537022	1.20	cps
Barium	137-1	14540089	14743365	14774343	14685932	0.87	cps
Beryllium	9-1	321209	327191	327738	325380	1.11	cps
Bismuth	209-1	11318538	11626502	11245226	11396755	1.78	cps
Bismuth	209-2	5299446	5016962	5111537	5142648	2.80	cps
Bromine	81-1	108884	131937	144007	128276	13.91	cps
Cadmium	108-1	12869	13774	13273	13305	3.40	cps
Cadmium	106-1	26499	26886	26425	26604	0.93	cps
Cadmium	111-1	208151	208388	210457	208999	0.61	cps
Calcium	43-1	27056514	26993879	27494630	27181674	1.00	cps
Calcium	44-1	436109780	439281793	437190367	437527313	0.37	cps
Carbon	12-1	8775668	9613355	9870165	9419729	6.08	cps
Carbon	12-2	69714	70588	70029	70111	0.63	cps
Chlorine	35-1	65207399	71280364	73720412	70069392	6.26	cps
Chlorine	35-2	317233	319280	321839	319450	0.72	cps
Chromium	52-2	850001	861734	861291	857675	0.78	cps
Cobalt	59-2	4090756	4112263	4073445	4092155	0.48	cps
Copper	63-2	1562054	1476451	1485540	1508015	3.12	cps
Dysprosium	156-1	120	113	140	124	11.15	cps
Dysprosium	156-2	33	20	13	22	45.83	cps
Erbium	164-1	143	147	150	147	2.27	cps
Erbium	164-2	57	80	67	68	17.27	cps
Gadolinium	160-1	147	230	153	177	26.21	cps
Gadolinium	160-2	50	50	57	52	7.37	cps
Holmium	165-1	19749070	20244311	19106422	19699934	2.90	cps
Holmium	165-2	7675600	7318969	7464433	7486334	2.40	cps
Indium	115-1	15664274	16091858	15290967	15682366	2.56	cps
Indium	115-2	1726429	1651437	1651015	1676293	2.59	cps
Iron	54-2	425383	425820	430387	427197	0.65	cps
Iron	56-2	7609792	7527773	7566393	7567986	0.54	cps
Iron	57-2	184159	185375	185136	184890	0.35	cps
Krypton	83-1	350	353	327	343	4.23	cps
Lead	206-1	253583	257606	258639	256609	1.04	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	219111	218999	223016	220376	1.04	cps
Lead	208-1	1007486	1017182	1027910	1017526	1.00	cps
Lithium	6-1	9033348	9252075	8844763	9043395	2.25	cps
Magnesium	24-2	39780363	40266687	40382265	40143105	0.80	cps
Manganese	55-2	916877	921996	919020	919298	0.28	cps
Molybdenum	94-1	4467	4731	4501	4566	3.14	cps
Molybdenum	95-1	6522	6638	7075	6745	4.33	cps
Molybdenum	96-1	7422	7555	7312	7430	1.64	cps
Molybdenum	97-1	3981	4031	4217	4076	3.06	cps
Molybdenum	98-1	10564	10180	10934	10560	3.57	cps
Neodymium	150-1	687	657	613	652	5.65	cps
Neodymium	150-2	27	23	27	26	7.55	cps
Nickel	60-2	1052459	1057031	1053283	1054258	0.23	cps
Phosphorus	31-2	173	157	163	164	5.10	cps
Potassium	39-2	799719	805364	801104	802062	0.37	cps
Rhodium	103-1	14228182	14503136	13804968	14178762	2.48	cps
Rhodium	103-2	6109144	5772233	5910977	5930785	2.86	cps
Scandium	45-1	11524238	11963398	11434444	11640693	2.43	cps
Scandium	45-2	245391	233436	238232	239020	2.52	cps
Selenium	82-1	5118	5161	5134	5138	0.43	cps
Selenium	77-2	63	103	77	81	25.11	cps
Selenium	78-2	337	313	310	320	4.54	cps
Silicon	28-1	119629105	120293788	120329445	120084113	0.33	cps
Silver	107-1	978258	1003689	1008620	996855	1.63	cps
Silver	109-1	938201	946282	959422	947968	1.13	cps
Sodium	23-2	103554152	105094088	103826792	104158344	0.79	cps
Strontium	86-1	80014095	81091734	81432619	80846149	0.92	cps
Strontium	88-1	698152363	698478576	704889643	700506861	0.54	cps
Sulfur	34-1	37970750	38148034	38955184	38357989	1.37	cps
Terbium	159-1	20233530	21161967	20029703	20475067	2.95	cps
Terbium	159-2	7387912	7146429	7111027	7215123	2.09	cps
Thallium	203-1	779990	791130	793649	788256	0.92	cps
Thallium	205-1	2012993	2001264	2011215	2008491	0.31	cps
Tin	118-1	10174	10274	10077	10175	0.97	cps
Titanium	47-1	2314	2547	2340	2400	5.32	cps
Uranium	238-1	12850	12760	12696	12769	0.60	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:24:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1755876	1716500	1784744	1752374	1.95	cps
Ytterbium	172-1	123	130	173	142	19.09	cps
Ytterbium	172-2	37	43	53	44	18.87	cps
Ytterbium	176-1	1863	1873	1833	1857	1.12	cps
Ytterbium	176-2	343	283	280	302	11.79	cps
Yttrium	89-1	28969414	29309653	27874815	28717961	2.61	cps
Yttrium	89-2	2265221	2195389	2150044	2203551	2.63	cps
Zinc	66-2	305966	309465	307162	307531	0.58	cps
Zirconium	90-1	2460	2600	2494	2518	2.90	cps
Zirconium	91-1	607	733	670	670	9.45	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	49996	50457	50223	50225	0.46	cps
Antimony	121-1	1557	1900	1820	1759	10.21	cps
Arsenic	75-2	943	930	900	924	2.40	cps
Barium	135-1	177028	178338	178861	178076	0.53	cps
Barium	137-1	308432	310502	311324	310086	0.48	cps
Beryllium	9-1	551	510	522	528	4.01	cps
Bismuth	209-1	11324929	12497489	12351881	12058100	5.30	cps
Bismuth	209-2	5530582	5502276	5588671	5540510	0.79	cps
Bromine	81-1	237487	257911	269961	255119	6.43	cps
Cadmium	108-1	217	193	213	208	6.07	cps
Cadmium	106-1	8256	9036	8579	8624	4.55	cps
Cadmium	111-1	5907	6453	6110	6157	4.48	cps
Calcium	43-1	8781310	8733553	8821218	8778694	0.50	cps
Calcium	44-1	140521018	141703541	143963531	142062697	1.23	cps
Carbon	12-1	17960326	19192138	19746037	18966167	4.82	cps
Carbon	12-2	128502	129804	131058	129788	0.98	cps
Chlorine	35-1	6583423	6361854	6166254	6370510	3.28	cps
Chlorine	35-2	23676	23149	22421	23082	2.73	cps
Chromium	52-2	1963	2020	1900	1961	3.06	cps
Cobalt	59-2	1237	1380	1337	1318	5.58	cps
Copper	63-2	10180	9773	9897	9950	2.10	cps
Dysprosium	156-1	33	67	37	46	40.30	cps
Dysprosium	156-2	23	20	10	18	39.03	cps
Erbium	164-1	100	160	153	138	23.87	cps
Erbium	164-2	37	53	47	46	18.41	cps
Gadolinium	160-1	160	140	150	150	6.67	cps
Gadolinium	160-2	23	33	30	29	17.63	cps
Holmium	165-1	19050571	20245340	20426649	19907520	3.76	cps
Holmium	165-2	7727450	7839739	7762897	7776695	0.74	cps
Indium	115-1	15036435	16372502	16511717	15973551	5.10	cps
Indium	115-2	1789892	1761518	1765304	1772238	0.87	cps
Iron	54-2	3627	3931	3601	3719	4.93	cps
Iron	56-2	66902	66481	65436	66273	1.14	cps
Iron	57-2	2010	1997	2070	2026	1.93	cps
Krypton	83-1	250	293	300	281	9.66	cps
Lead	206-1	4367	4361	4344	4357	0.28	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3524	3624	3811	3653	3.98	cps
Lead	208-1	16598	16568	16898	16688	1.09	cps
Lithium	6-1	9323565	9696331	9907557	9642484	3.07	cps
Magnesium	24-2	11491	12115	11585	11730	2.87	cps
Manganese	55-2	3590	3771	3714	3692	2.49	cps
Molybdenum	94-1	230556	232890	234473	232640	0.85	cps
Molybdenum	95-1	398031	402589	401857	400826	0.61	cps
Molybdenum	96-1	425983	431372	431279	429544	0.72	cps
Molybdenum	97-1	247748	252237	251268	250418	0.94	cps
Molybdenum	98-1	638214	638053	643951	640073	0.52	cps
Neodymium	150-1	43	30	47	40	22.05	cps
Neodymium	150-2	13	0	20	11	91.66	cps
Nickel	60-2	361620	360109	359447	360392	0.31	cps
Phosphorus	31-2	1553	1670	1700	1641	4.72	cps
Potassium	39-2	10534088	10479176	10249369	10420878	1.45	cps
Rhodium	103-1	14292120	15574468	15499634	15122074	4.76	cps
Rhodium	103-2	6392339	6319563	6323536	6345146	0.64	cps
Scandium	45-1	11272161	12052771	12290786	11871906	4.49	cps
Scandium	45-2	245200	246687	245425	245771	0.33	cps
Selenium	82-1	493	467	473	478	2.90	cps
Selenium	77-2	0	17	10	9	94.38	cps
Selenium	78-2	20	33	33	29	26.64	cps
Silicon	28-1	34224025	35203359	35256569	34894651	1.67	cps
Silver	107-1	1147	887	913	982	14.56	cps
Silver	109-1	870	963	770	868	11.14	cps
Sodium	23-2	17856761	17773911	17890473	17840382	0.34	cps
Strontium	86-1	7957234	8064803	8034892	8018977	0.69	cps
Strontium	88-1	69516806	69353392	69843062	69571087	0.36	cps
Sulfur	34-1	1949773	1942937	1970520	1954410	0.73	cps
Terbium	159-1	19518132	20738338	21340173	20532214	4.52	cps
Terbium	159-2	7598246	7550106	7371014	7506455	1.60	cps
Thallium	203-1	630	533	537	567	9.68	cps
Thallium	205-1	1203	1320	1197	1240	5.59	cps
Tin	118-1	8323	8846	8636	8602	3.06	cps
Titanium	47-1	2307	2120	2000	2142	7.21	cps
Uranium	238-1	120	70	57	82	40.61	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-12	Instrumnet Name :	P8
Client Sample ID :	ME2963	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:28:11	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9310	9433	9210	9318	1.20	cps
Ytterbium	172-1	123	117	123	121	3.18	cps
Ytterbium	172-2	83	60	70	71	16.46	cps
Ytterbium	176-1	2267	2130	2204	2200	3.11	cps
Ytterbium	176-2	333	410	347	363	11.27	cps
Yttrium	89-1	27806540	29934507	30480595	29407214	4.80	cps
Yttrium	89-2	2303674	2302109	2245262	2283681	1.46	cps
Zinc	66-2	1250	1227	1220	1232	1.28	cps
Zirconium	90-1	1337	1327	1313	1326	0.88	cps
Zirconium	91-1	267	293	310	290	7.54	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4744	4471	4437	4551	3.70	cps
Antimony	121-1	3644	3487	3490	3540	2.53	cps
Arsenic	75-2	473	607	493	524	13.71	cps
Barium	135-1	91999	94241	93359	93200	1.21	cps
Barium	137-1	161138	162244	160865	161416	0.45	cps
Beryllium	9-1	381	464	435	427	9.81	cps
Bismuth	209-1	11643701	12167888	12420971	12077520	3.28	cps
Bismuth	209-2	5413220	5388088	6336363	5712557	9.46	cps
Bromine	81-1	228515	267491	294124	263377	12.53	cps
Cadmium	108-1	137	227	170	178	25.59	cps
Cadmium	106-1	8173	9040	8713	8642	5.07	cps
Cadmium	111-1	5978	6459	6307	6248	3.93	cps
Calcium	43-1	1124550	1134180	1127985	1128905	0.43	cps
Calcium	44-1	18772795	18560585	18470700	18601360	0.83	cps
Carbon	12-1	11988525	12603654	12952846	12515008	3.90	cps
Carbon	12-2	84089	83475	84893	84152	0.85	cps
Chlorine	35-1	5853502	6415722	6545471	6271565	5.86	cps
Chlorine	35-2	27242	27493	26865	27200	1.16	cps
Chromium	52-2	1813	1580	1687	1693	6.90	cps
Cobalt	59-2	1033	917	1010	987	6.26	cps
Copper	63-2	27781	27951	26588	27440	2.71	cps
Dysprosium	156-1	43	23	33	33	30.00	cps
Dysprosium	156-2	7	3	10	7	50.03	cps
Erbium	164-1	77	140	117	111	28.83	cps
Erbium	164-2	33	40	53	42	24.12	cps
Gadolinium	160-1	147	167	183	166	11.09	cps
Gadolinium	160-2	17	47	60	41	53.98	cps
Holmium	165-1	18768578	20188387	20235899	19730955	4.23	cps
Holmium	165-2	7473225	7661340	8810440	7981668	9.07	cps
Indium	115-1	15117094	16550659	16569817	16079190	5.18	cps
Indium	115-2	1700662	1704121	1973107	1792630	8.72	cps
Iron	54-2	22234	21900	21383	21839	1.96	cps
Iron	56-2	399118	395031	388887	394345	1.31	cps
Iron	57-2	9813	10057	10344	10071	2.64	cps
Krypton	83-1	297	283	293	291	2.38	cps
Lead	206-1	2877	2510	2424	2604	9.24	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2284	2214	2237	2245	1.59	cps
Lead	208-1	10475	9895	9768	10046	3.75	cps
Lithium	6-1	9271784	9757659	9906701	9645381	3.44	cps
Magnesium	24-2	129482	131695	127545	129574	1.60	cps
Manganese	55-2	14237	14381	14247	14288	0.56	cps
Molybdenum	94-1	177011	176213	178418	177214	0.63	cps
Molybdenum	95-1	305247	307406	308922	307192	0.60	cps
Molybdenum	96-1	327459	329813	328244	328505	0.36	cps
Molybdenum	97-1	189840	190851	192769	191153	0.78	cps
Molybdenum	98-1	490577	490729	491064	490790	0.05	cps
Neodymium	150-1	33	67	47	49	34.32	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	58500	58128	56244	57624	2.10	cps
Phosphorus	31-2	593	517	630	580	9.97	cps
Potassium	39-2	13412647	13312261	13067958	13264289	1.34	cps
Rhodium	103-1	14697973	15026924	15248159	14991019	1.85	cps
Rhodium	103-2	6271518	6153881	7154166	6526522	8.38	cps
Scandium	45-1	11252091	12108082	11925701	11761958	3.83	cps
Scandium	45-2	235171	235952	269427	246850	7.92	cps
Selenium	82-1	287	297	300	294	2.36	cps
Selenium	77-2	7	7	0	4	86.60	cps
Selenium	78-2	30	23	30	28	13.86	cps
Silicon	28-1	29029458	29273052	29403806	29235439	0.65	cps
Silver	107-1	593	700	443	579	22.27	cps
Silver	109-1	403	450	487	447	9.35	cps
Sodium	23-2	29918416	30059963	29536404	29838261	0.91	cps
Strontium	86-1	2980021	3085862	2997691	3021191	1.88	cps
Strontium	88-1	26044379	25366828	26100017	25837075	1.58	cps
Sulfur	34-1	1954003	1935262	1901918	1930395	1.37	cps
Terbium	159-1	19587379	20952645	20616179	20385401	3.49	cps
Terbium	159-2	7249789	7195956	8430562	7625436	9.15	cps
Thallium	203-1	453	417	417	429	4.94	cps
Thallium	205-1	967	1000	1017	994	2.56	cps
Tin	118-1	8329	8122	8039	8164	1.83	cps
Titanium	47-1	1303	1323	1397	1341	3.66	cps
Uranium	238-1	6405	6682	6535	6541	2.12	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-13	Instrumnet Name :	P8
Client Sample ID :	ME2967	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:31:25	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5985	6095	5625	5901	4.17	cps
Ytterbium	172-1	117	113	143	124	13.22	cps
Ytterbium	172-2	43	37	73	51	38.21	cps
Ytterbium	176-1	1833	2117	2040	1997	7.34	cps
Ytterbium	176-2	317	240	367	308	20.73	cps
Yttrium	89-1	27429296	29220805	28997486	28549196	3.42	cps
Yttrium	89-2	2236872	2195223	2486068	2306054	6.82	cps
Zinc	66-2	3170	3057	3190	3139	2.29	cps
Zirconium	90-1	1173	1430	1270	1291	10.04	cps
Zirconium	91-1	243	250	220	238	6.63	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	62514	62694	61171	62126	1.34	cps
Antimony	121-1	1980	2050	1937	1989	2.88	cps
Arsenic	75-2	2000	1813	2050	1955	6.38	cps
Barium	135-1	212455	214621	216939	214672	1.04	cps
Barium	137-1	365263	376343	375072	372226	1.63	cps
Beryllium	9-1	412	380	427	407	5.97	cps
Bismuth	209-1	10591205	11669891	12014463	11425186	6.50	cps
Bismuth	209-2	5407267	5884795	6051968	5781343	5.79	cps
Bromine	81-1	668386	783182	852360	767976	12.10	cps
Cadmium	108-1	413	427	397	412	3.65	cps
Cadmium	106-1	7349	8553	8469	8124	8.28	cps
Cadmium	111-1	5291	6188	6091	5857	8.40	cps
Calcium	43-1	6940115	7029121	7057323	7008853	0.87	cps
Calcium	44-1	113220705	112258308	114206062	113228358	0.86	cps
Carbon	12-1	38159030	41967954	44863266	41663417	8.07	cps
Carbon	12-2	303980	302616	305233	303943	0.43	cps
Chlorine	35-1	13854778	15202272	15695998	14917683	6.39	cps
Chlorine	35-2	67684	66703	68240	67542	1.15	cps
Chromium	52-2	4097	4091	4101	4096	0.12	cps
Cobalt	59-2	1493	1227	1330	1350	9.96	cps
Copper	63-2	20398	20171	20832	20467	1.64	cps
Dysprosium	156-1	23	27	30	27	12.51	cps
Dysprosium	156-2	7	3	7	6	34.70	cps
Erbium	164-1	90	100	87	92	7.52	cps
Erbium	164-2	33	33	43	37	15.75	cps
Gadolinium	160-1	147	127	107	127	15.79	cps
Gadolinium	160-2	33	27	27	29	13.31	cps
Holmium	165-1	17987597	19738326	20420075	19381999	6.47	cps
Holmium	165-2	7590483	8344642	8675376	8203500	6.78	cps
Indium	115-1	13989369	15617905	16177382	15261552	7.45	cps
Indium	115-2	1693749	1891616	1965399	1850255	7.59	cps
Iron	54-2	3374	3257	3280	3304	1.87	cps
Iron	56-2	57345	57050	56123	56839	1.12	cps
Iron	57-2	1710	1707	1617	1678	3.16	cps
Krypton	83-1	290	310	307	302	3.54	cps
Lead	206-1	2080	2120	2054	2085	1.61	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1687	1670	1710	1689	1.19	cps
Lead	208-1	7984	8148	8061	8064	1.01	cps
Lithium	6-1	8699331	9695893	9744388	9379871	6.29	cps
Magnesium	24-2	3327	3040	3290	3219	4.85	cps
Manganese	55-2	1583	1657	1650	1630	2.49	cps
Molybdenum	94-1	443870	450113	447547	447177	0.70	cps
Molybdenum	95-1	766521	773749	777706	772659	0.73	cps
Molybdenum	96-1	826205	830296	838383	831628	0.75	cps
Molybdenum	97-1	476091	488086	491463	485213	1.66	cps
Molybdenum	98-1	1243957	1250341	1250475	1248258	0.30	cps
Neodymium	150-1	53	20	50	41	44.65	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	986881	981558	975251	981230	0.59	cps
Phosphorus	31-2	2357	2564	2497	2472	4.27	cps
Potassium	39-2	32710202	31994172	31973149	32225841	1.30	cps
Rhodium	103-1	13236829	14590518	14953567	14260305	6.34	cps
Rhodium	103-2	6186944	6765814	7020375	6657711	6.42	cps
Scandium	45-1	10463550	11554511	11890123	11302728	6.60	cps
Scandium	45-2	239386	260944	275502	258611	7.03	cps
Selenium	82-1	507	460	580	516	11.73	cps
Selenium	77-2	7	10	13	10	33.30	cps
Selenium	78-2	23	27	20	23	14.29	cps
Silicon	28-1	41705029	41958328	42604594	42089317	1.10	cps
Silver	107-1	460	450	467	459	1.83	cps
Silver	109-1	300	363	303	322	11.06	cps
Sodium	23-2	67864687	67750297	67699744	67771576	0.12	cps
Strontium	86-1	13003204	13078919	12845514	12975879	0.92	cps
Strontium	88-1	112375592	113377805	112211982	112655126	0.56	cps
Sulfur	34-1	1918342	1906489	1877644	1900825	1.10	cps
Terbium	159-1	18285196	20634076	20864885	19928052	7.16	cps
Terbium	159-2	7433297	8022962	8297950	7918070	5.58	cps
Thallium	203-1	303	383	313	333	13.08	cps
Thallium	205-1	877	750	783	803	8.17	cps
Tin	118-1	9106	9173	9764	9348	3.87	cps
Titanium	47-1	2420	2430	2264	2371	3.94	cps
Uranium	238-1	33	53	33	40	28.87	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-14	Instrumnet Name :	P8
Client Sample ID :	ME2965	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:34:37	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9890	9833	9823	9849	0.37	cps
Ytterbium	172-1	110	120	107	112	6.18	cps
Ytterbium	172-2	47	63	73	61	22.04	cps
Ytterbium	176-1	1733	1967	2144	1948	10.56	cps
Ytterbium	176-2	290	437	347	358	20.67	cps
Yttrium	89-1	25897125	28879908	29163520	27980184	6.47	cps
Yttrium	89-2	2226202	2462613	2513651	2400822	6.39	cps
Zinc	66-2	1107	1043	997	1049	5.26	cps
Zirconium	90-1	1083	1053	1167	1101	5.33	cps
Zirconium	91-1	203	190	247	213	13.89	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3827241	3795000	3839696	3820646	0.60	cps
Antimony	121-1	8525720	8530642	8539083	8531815	0.08	cps
Arsenic	75-2	180716	180916	181955	181196	0.37	cps
Barium	135-1	10218199	10311993	10151618	10227270	0.79	cps
Barium	137-1	17343108	17861529	17623989	17609542	1.47	cps
Beryllium	9-1	3151277	3200127	3197006	3182803	0.86	cps
Bismuth	209-1	11259982	11475697	11430372	11388684	1.00	cps
Bismuth	209-2	4999912	4998433	4886906	4961750	1.31	cps
Bromine	81-1	133037	122570	113518	123042	7.94	cps
Cadmium	108-1	163193	166293	165291	164926	0.96	cps
Cadmium	106-1	237425	244822	241928	241392	1.54	cps
Cadmium	111-1	2014161	2091356	2083876	2063131	2.06	cps
Calcium	43-1	14255671	14299266	14306740	14287226	0.19	cps
Calcium	44-1	231915337	229181677	232777517	231291510	0.81	cps
Carbon	12-1	10537287	10222388	9999194	10252956	2.64	cps
Carbon	12-2	66342	65689	64551	65527	1.38	cps
Chlorine	35-1	1876699	1790921	1729447	1799022	4.11	cps
Chlorine	35-2	6582	6178	5818	6192	6.17	cps
Chromium	52-2	2095717	2112936	2054208	2087621	1.45	cps
Cobalt	59-2	3780112	3817097	3909533	3835581	1.74	cps
Copper	63-2	28464765	27909425	27920701	28098297	1.13	cps
Dysprosium	156-1	440	467	487	464	5.04	cps
Dysprosium	156-2	113	77	127	106	24.53	cps
Erbium	164-1	437	433	413	428	2.95	cps
Erbium	164-2	147	167	177	163	9.35	cps
Gadolinium	160-1	377	400	443	407	8.32	cps
Gadolinium	160-2	173	177	150	167	8.72	cps
Holmium	165-1	19907348	19882995	20055802	19948715	0.47	cps
Holmium	165-2	7423167	7274415	7294512	7330698	1.10	cps
Indium	115-1	15075422	15025633	15462418	15187824	1.57	cps
Indium	115-2	1581563	1600029	1623284	1601625	1.31	cps
Iron	54-2	20147296	19843578	19955762	19982212	0.77	cps
Iron	56-2	374951541	367199208	366534088	369561612	1.27	cps
Iron	57-2	9555127	9316153	9236978	9369419	1.77	cps
Krypton	83-1	293	300	327	307	5.75	cps
Lead	206-1	32091449	33190189	32335410	32539016	1.77	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27833795	28496280	28072915	28134330	1.19	cps
Lead	208-1	126607836	131062139	129579769	129083248	1.76	cps
Lithium	6-1	8773920	8813411	8800202	8795844	0.23	cps
Magnesium	24-2	66417937	65911867	66947216	66425673	0.78	cps
Manganese	55-2	8430265	8221327	8186490	8279361	1.59	cps
Molybdenum	94-1	30728650	31012688	31221695	30987677	0.80	cps
Molybdenum	95-1	43982319	44410924	44623508	44338917	0.74	cps
Molybdenum	96-1	48049444	48953611	49425084	48809380	1.43	cps
Molybdenum	97-1	26679065	27492105	27655895	27275688	1.92	cps
Molybdenum	98-1	69836914	71746469	72085171	71222851	1.70	cps
Neodymium	150-1	810	787	803	800	1.50	cps
Neodymium	150-2	57	130	57	81	52.19	cps
Nickel	60-2	975389	970941	980311	975547	0.48	cps
Phosphorus	31-2	37525	37171	36914	37203	0.83	cps
Potassium	39-2	19353680	19338522	19592075	19428092	0.73	cps
Rhodium	103-1	13875961	13924240	14095701	13965301	0.83	cps
Rhodium	103-2	5578127	5727040	5725763	5676977	1.51	cps
Scandium	45-1	11399834	11465868	11452604	11439436	0.31	cps
Scandium	45-2	230475	229170	231538	230395	0.51	cps
Selenium	82-1	123850	126191	124920	124987	0.94	cps
Selenium	77-2	2514	2324	2354	2397	4.26	cps
Selenium	78-2	7862	7545	8006	7804	3.02	cps
Silicon	28-1	7934581	7994577	8152390	8027182	1.40	cps
Silver	107-1	10322022	10320102	10336717	10326280	0.09	cps
Silver	109-1	9637519	9723701	9842715	9734645	1.06	cps
Sodium	23-2	134129905	133112958	133029731	133424198	0.46	cps
Strontium	86-1	2860180	2880358	2881952	2874163	0.42	cps
Strontium	88-1	24391000	24722185	24887892	24667026	1.03	cps
Sulfur	34-1	1661319	1662187	1631635	1651714	1.05	cps
Terbium	159-1	20291500	20454764	20206186	20317483	0.62	cps
Terbium	159-2	7083453	7036573	6996043	7038690	0.62	cps
Thallium	203-1	7976792	8066918	7972922	8005544	0.66	cps
Thallium	205-1	18729730	19204949	19124372	19019684	1.34	cps
Tin	118-1	6825596	6862119	6929753	6872489	0.77	cps
Titanium	47-1	13726913	14108048	14169193	14001385	1.71	cps
Uranium	238-1	25977270	26566225	26737976	26427157	1.51	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:37:49	DataFile Name :	045CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1659087	1649655	1647611	1652118	0.37	cps
Ytterbium	172-1	487	457	467	470	3.25	cps
Ytterbium	172-2	263	203	263	243	14.24	cps
Ytterbium	176-1	40522	40596	41502	40873	1.33	cps
Ytterbium	176-2	14668	14972	14835	14825	1.03	cps
Yttrium	89-1	28144511	28039385	28230071	28137989	0.34	cps
Yttrium	89-2	2098740	2129270	2150638	2126216	1.23	cps
Zinc	66-2	3124970	3047765	3023617	3065451	1.73	cps
Zirconium	90-1	15378462	15552926	15632206	15521198	0.84	cps
Zirconium	91-1	3510028	3507249	3505504	3507594	0.07	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	207	190	193	197	4.48	cps
Antimony	121-1	2857	2377	2254	2496	12.77	cps
Arsenic	75-2	3	10	10	8	49.52	cps
Barium	135-1	570	427	410	469	18.76	cps
Barium	137-1	867	723	710	767	11.33	cps
Beryllium	9-1	1457	1285	1236	1326	8.77	cps
Bismuth	209-1	13281951	12973106	13212939	13155998	1.23	cps
Bismuth	209-2	5633515	5598113	5742499	5658042	1.33	cps
Bromine	81-1	51745	49042	45473	48753	6.45	cps
Cadmium	108-1	40	40	33	38	10.19	cps
Cadmium	106-1	8413	8870	8366	8549	3.26	cps
Cadmium	111-1	6044	6354	5966	6121	3.35	cps
Calcium	43-1	1373	1160	1083	1206	12.47	cps
Calcium	44-1	48893	44993	44388	46092	5.30	cps
Carbon	12-1	6931603	6750086	6731453	6804381	1.62	cps
Carbon	12-2	42020	41064	40419	41168	1.96	cps
Chlorine	35-1	1269731	1214427	1176810	1220323	3.83	cps
Chlorine	35-2	4327	4144	4224	4232	2.17	cps
Chromium	52-2	1050	1023	1157	1077	6.55	cps
Cobalt	59-2	250	203	187	213	15.39	cps
Copper	63-2	5601	5474	5381	5486	2.01	cps
Dysprosium	156-1	13	0	10	8	89.21	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	83	113	97	98	15.38	cps
Erbium	164-2	47	47	47	47	0.00	cps
Gadolinium	160-1	137	127	150	138	8.50	cps
Gadolinium	160-2	30	20	20	23	24.74	cps
Holmium	165-1	21053191	20952545	20903635	20969790	0.36	cps
Holmium	165-2	7504774	7639654	7518924	7554451	0.98	cps
Indium	115-1	17142670	17172315	17225699	17180228	0.24	cps
Indium	115-2	1781169	1745818	1708219	1745068	2.09	cps
Iron	54-2	1223	1030	1150	1135	8.60	cps
Iron	56-2	17775	17364	17334	17491	1.41	cps
Iron	57-2	483	503	363	450	16.83	cps
Krypton	83-1	300	257	307	288	9.43	cps
Lead	206-1	6468	5561	5178	5736	11.55	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5318	4658	4441	4805	9.51	cps
Lead	208-1	24726	21991	20260	22326	10.09	cps
Lithium	6-1	9810327	9604632	9571485	9662148	1.34	cps
Magnesium	24-2	3260	3227	3104	3197	2.58	cps
Manganese	55-2	343	340	300	328	7.36	cps
Molybdenum	94-1	2730	2127	2027	2295	16.59	cps
Molybdenum	95-1	3220	2537	2277	2678	18.20	cps
Molybdenum	96-1	3487	2877	2527	2964	16.40	cps
Molybdenum	97-1	1843	1523	1400	1589	14.40	cps
Molybdenum	98-1	5038	4157	3350	4182	20.18	cps
Neodymium	150-1	17	13	23	18	28.64	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	487	520	590	532	9.91	cps
Phosphorus	31-2	80	83	87	83	4.00	cps
Potassium	39-2	20281	19620	19954	19952	1.66	cps
Rhodium	103-1	16400165	15949787	16140800	16163584	1.40	cps
Rhodium	103-2	6531504	6589666	6515472	6545547	0.60	cps
Scandium	45-1	12013755	12023312	12105893	12047653	0.42	cps
Scandium	45-2	237067	239375	236902	237782	0.58	cps
Selenium	82-1	37	40	-10	22	125.80	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	0	3	27	10	145.32	cps
Silicon	28-1	870862	830159	808845	836622	3.77	cps
Silver	107-1	1850	1717	1413	1660	13.48	cps
Silver	109-1	1700	1423	1243	1456	15.80	cps
Sodium	23-2	90394	88710	88496	89200	1.17	cps
Strontium	86-1	857	687	703	749	12.51	cps
Strontium	88-1	3350	2797	2264	2804	19.38	cps
Sulfur	34-1	820580	819317	827874	822590	0.56	cps
Terbium	159-1	21581134	21467081	21008493	21352236	1.42	cps
Terbium	159-2	7488079	7307892	7521036	7439002	1.54	cps
Thallium	203-1	1190	1193	1107	1163	4.22	cps
Thallium	205-1	2917	2470	2290	2559	12.61	cps
Tin	118-1	2644	2640	2380	2555	5.91	cps
Titanium	47-1	1157	770	720	882	27.09	cps
Uranium	238-1	1513	1087	1050	1217	21.17	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:40:31	DataFile Name :	046CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	77	63	60	30.93	cps
Ytterbium	172-1	123	127	113	121	5.73	cps
Ytterbium	172-2	43	60	37	47	25.75	cps
Ytterbium	176-1	1950	1917	1934	1934	0.86	cps
Ytterbium	176-2	263	290	333	296	11.95	cps
Yttrium	89-1	29865627	29927303	29980621	29924517	0.19	cps
Yttrium	89-2	2270431	2253518	2191760	2238570	1.85	cps
Zinc	66-2	353	300	283	312	11.71	cps
Zirconium	90-1	2190	1910	1820	1973	9.78	cps
Zirconium	91-1	457	393	367	406	11.40	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	61027	60766	61415	61070	0.53	cps
Antimony	121-1	2124	2234	2184	2180	2.53	cps
Arsenic	75-2	1767	1730	1917	1805	5.48	cps
Barium	135-1	203769	207885	208260	206638	1.21	cps
Barium	137-1	358699	364058	362751	361836	0.77	cps
Beryllium	9-1	734	732	691	719	3.36	cps
Bismuth	209-1	11407524	11816926	11896199	11706883	2.24	cps
Bismuth	209-2	5395165	5232151	5224227	5283848	1.83	cps
Bromine	81-1	638034	760570	836333	744979	13.43	cps
Cadmium	108-1	373	373	353	367	3.15	cps
Cadmium	106-1	7952	8579	8379	8304	3.86	cps
Cadmium	111-1	5749	6174	6135	6019	3.91	cps
Calcium	43-1	6774953	6683098	6727098	6728383	0.68	cps
Calcium	44-1	108697085	109627968	109605102	109310052	0.49	cps
Carbon	12-1	36319601	39823144	43005168	39715971	8.42	cps
Carbon	12-2	287814	293552	294791	292052	1.27	cps
Chlorine	35-1	11971814	13340500	13861264	13057859	7.47	cps
Chlorine	35-2	60583	60576	61674	60944	1.04	cps
Chromium	52-2	2003	1960	2013	1992	1.42	cps
Cobalt	59-2	1373	1437	1323	1378	4.12	cps
Copper	63-2	7025	6912	7129	7022	1.54	cps
Dysprosium	156-1	57	23	20	33	60.84	cps
Dysprosium	156-2	3	3	10	6	69.34	cps
Erbium	164-1	140	147	103	130	17.95	cps
Erbium	164-2	53	40	60	51	19.92	cps
Gadolinium	160-1	163	127	127	139	15.24	cps
Gadolinium	160-2	53	37	20	37	45.45	cps
Holmium	165-1	19235021	20244788	19884887	19788232	2.59	cps
Holmium	165-2	7571439	7513863	7492583	7525961	0.54	cps
Indium	115-1	15229495	15934343	15783806	15649214	2.37	cps
Indium	115-2	1728523	1684853	1697033	1703470	1.32	cps
Iron	54-2	2480	2560	2507	2516	1.62	cps
Iron	56-2	43081	43306	43239	43209	0.27	cps
Iron	57-2	1273	1310	1363	1316	3.44	cps
Krypton	83-1	287	307	327	307	6.52	cps
Lead	206-1	3117	2974	3007	3033	2.47	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2557	2774	2670	2667	4.06	cps
Lead	208-1	11919	12022	12129	12023	0.87	cps
Lithium	6-1	9273181	9511054	9424988	9403075	1.28	cps
Magnesium	24-2	2957	2990	3187	3045	4.08	cps
Manganese	55-2	1287	1153	1130	1190	7.10	cps
Molybdenum	94-1	429579	431679	437265	432841	0.92	cps
Molybdenum	95-1	733009	739370	756810	743063	1.66	cps
Molybdenum	96-1	792248	793647	811676	799191	1.36	cps
Molybdenum	97-1	460016	468690	466733	465146	0.98	cps
Molybdenum	98-1	1183586	1199358	1208061	1197002	1.04	cps
Neodymium	150-1	57	37	47	47	21.43	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	957095	959596	960359	959016	0.18	cps
Phosphorus	31-2	2420	2464	2450	2445	0.91	cps
Potassium	39-2	31092781	31372660	31497500	31320981	0.66	cps
Rhodium	103-1	13895113	14729899	14592517	14405843	3.11	cps
Rhodium	103-2	6118578	6056898	6060924	6078800	0.57	cps
Scandium	45-1	11218646	11884523	11768695	11623955	3.06	cps
Scandium	45-2	240553	236864	234540	237319	1.28	cps
Selenium	82-1	537	563	540	547	2.66	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	10	7	17	11	45.82	cps
Silicon	28-1	39972646	40592579	40895569	40486932	1.16	cps
Silver	107-1	773	703	710	729	5.30	cps
Silver	109-1	527	537	523	529	1.31	cps
Sodium	23-2	66918876	66721107	66667052	66769012	0.20	cps
Strontium	86-1	12559414	12821699	12549864	12643659	1.22	cps
Strontium	88-1	108401195	108677822	109910645	108996554	0.74	cps
Sulfur	34-1	1822084	1808163	1768395	1799547	1.55	cps
Terbium	159-1	19642974	20651356	19981053	20091795	2.55	cps
Terbium	159-2	7397311	7371762	7211832	7326968	1.37	cps
Thallium	203-1	493	597	543	544	9.49	cps
Thallium	205-1	1320	1230	1160	1237	6.49	cps
Tin	118-1	8626	8679	9043	8783	2.58	cps
Titanium	47-1	2167	2314	2177	2219	3.69	cps
Uranium	238-1	417	390	440	416	6.02	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-15	Instrumnet Name :	P8
Client Sample ID :	ME2966	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:44:21	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9647	9417	9410	9491	1.42	cps
Ytterbium	172-1	113	133	120	122	8.33	cps
Ytterbium	172-2	43	53	33	43	23.08	cps
Ytterbium	176-1	1810	2077	1913	1933	6.95	cps
Ytterbium	176-2	243	343	310	299	17.04	cps
Yttrium	89-1	27963299	29427411	28930001	28773570	2.59	cps
Yttrium	89-2	2255466	2191864	2182355	2209895	1.80	cps
Zinc	66-2	1133	1240	1313	1229	7.37	cps
Zirconium	90-1	2447	2517	2174	2379	7.63	cps
Zirconium	91-1	647	497	423	522	21.80	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	317	243	227	262	18.26	cps
Antimony	121-1	360	313	320	331	7.62	cps
Arsenic	75-2	17	20	27	21	24.12	cps
Barium	135-1	19978	19387	19437	19601	1.67	cps
Barium	137-1	34200	33963	34240	34134	0.44	cps
Beryllium	9-1	644	620	627	630	1.93	cps
Bismuth	209-1	14247924	13519359	13364702	13710661	3.44	cps
Bismuth	209-2	5907661	5891675	5942885	5914073	0.44	cps
Bromine	81-1	156441	147799	137974	147405	6.27	cps
Cadmium	108-1	20	40	17	26	49.38	cps
Cadmium	106-1	9277	9176	9350	9268	0.94	cps
Cadmium	111-1	6540	6456	6573	6523	0.93	cps
Calcium	43-1	10174750	9845097	9686110	9901986	2.52	cps
Calcium	44-1	163562664	157859154	156160994	159194271	2.44	cps
Carbon	12-1	9817247	9641164	9460803	9639738	1.85	cps
Carbon	12-2	59165	59239	58158	58854	1.03	cps
Chlorine	35-1	10872328	12101810	12693973	11889370	7.82	cps
Chlorine	35-2	55499	55566	55824	55630	0.31	cps
Chromium	52-2	1110	1190	1210	1170	4.52	cps
Cobalt	59-2	233	233	220	229	3.36	cps
Copper	63-2	5481	5478	5551	5503	0.75	cps
Dysprosium	156-1	47	47	33	42	18.24	cps
Dysprosium	156-2	20	10	23	18	39.03	cps
Erbium	164-1	133	133	147	138	5.59	cps
Erbium	164-2	37	47	37	40	14.43	cps
Gadolinium	160-1	150	167	160	159	5.28	cps
Gadolinium	160-2	63	53	33	50	30.55	cps
Holmium	165-1	23643965	23264118	22085090	22997724	3.53	cps
Holmium	165-2	8147512	8251932	8232039	8210495	0.68	cps
Indium	115-1	19039670	18151880	17902868	18364806	3.25	cps
Indium	115-2	1856266	1917585	1914102	1895985	1.82	cps
Iron	54-2	81537	81192	81524	81418	0.24	cps
Iron	56-2	1576356	1549462	1537699	1554506	1.27	cps
Iron	57-2	38619	38311	37783	38238	1.11	cps
Krypton	83-1	303	280	323	302	7.18	cps
Lead	206-1	5975	4934	4181	5030	17.91	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5321	4061	3330	4237	23.77	cps
Lead	208-1	24049	19283	16508	19946	19.12	cps
Lithium	6-1	10831679	10632963	10288409	10584351	2.60	cps
Magnesium	24-2	14053124	14315774	14204337	14191078	0.93	cps
Manganese	55-2	31448	30519	30429	30799	1.83	cps
Molybdenum	94-1	2124	1853	1957	1978	6.89	cps
Molybdenum	95-1	2534	2877	2590	2667	6.90	cps
Molybdenum	96-1	2934	2614	2650	2733	6.41	cps
Molybdenum	97-1	1787	1660	1543	1663	7.32	cps
Molybdenum	98-1	3907	3971	3957	3945	0.85	cps
Neodymium	150-1	37	50	33	40	22.05	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	933	937	953	941	1.14	cps
Phosphorus	31-2	97	90	113	100	12.02	cps
Potassium	39-2	299374	302245	297573	299731	0.79	cps
Rhodium	103-1	17565604	16912256	16630472	17036111	2.82	cps
Rhodium	103-2	6716001	6771450	6640109	6709187	0.98	cps
Scandium	45-1	14239758	13426180	13494389	13720109	3.29	cps
Scandium	45-2	261919	262073	262207	262066	0.05	cps
Selenium	82-1	60	153	83	99	49.12	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	23	7	14	58.06	cps
Silicon	28-1	44506639	43748421	43401798	43885619	1.29	cps
Silver	107-1	437	430	540	469	13.15	cps
Silver	109-1	283	257	280	273	5.32	cps
Sodium	23-2	36370034	36054495	36703782	36376104	0.89	cps
Strontium	86-1	30194310	29775178	29254149	29741212	1.58	cps
Strontium	88-1	258757363	255636523	252173250	255522378	1.29	cps
Sulfur	34-1	14995130	14364791	14307100	14555674	2.62	cps
Terbium	159-1	24229146	23133673	22630442	23331087	3.50	cps
Terbium	159-2	7940881	7974512	8117107	8010833	1.17	cps
Thallium	203-1	837	677	683	732	12.36	cps
Thallium	205-1	1900	1677	1450	1676	13.43	cps
Tin	118-1	3374	3300	3500	3392	2.98	cps
Titanium	47-1	1037	1013	1033	1028	1.23	cps
Uranium	238-1	4497	4371	4297	4389	2.31	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-16	Instrumnet Name :	P8
Client Sample ID :	ME2958	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:47:32	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47	40	53	47	14.28	cps
Ytterbium	172-1	153	137	150	147	6.01	cps
Ytterbium	172-2	53	63	23	47	44.61	cps
Ytterbium	176-1	2227	2124	2144	2165	2.53	cps
Ytterbium	176-2	333	407	337	359	11.54	cps
Yttrium	89-1	34026183	33264175	32369061	33219806	2.50	cps
Yttrium	89-2	2426840	2411442	2474965	2437749	1.36	cps
Zinc	66-2	890	737	803	810	9.49	cps
Zirconium	90-1	1343	1327	1237	1302	4.41	cps
Zirconium	91-1	303	247	233	261	14.23	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1720	1510	1563	1598	6.83	cps
Antimony	121-1	3924	4337	4251	4171	5.23	cps
Arsenic	75-2	687	713	780	727	6.62	cps
Barium	135-1	126548	127664	128812	127675	0.89	cps
Barium	137-1	222634	227339	225633	225202	1.06	cps
Beryllium	9-1	622	641	624	629	1.67	cps
Bismuth	209-1	12464888	12158839	12178892	12267540	1.40	cps
Bismuth	209-2	5308474	5329723	5306030	5314742	0.25	cps
Bromine	81-1	106436	107330	108049	107271	0.75	cps
Cadmium	108-1	183	117	187	162	24.34	cps
Cadmium	106-1	8616	8256	8563	8478	2.29	cps
Cadmium	111-1	6300	6037	6240	6192	2.22	cps
Calcium	43-1	2127407	2191954	2203241	2174200	1.88	cps
Calcium	44-1	34744269	35051964	35158254	34984829	0.61	cps
Carbon	12-1	12663353	13269008	13622958	13185106	3.68	cps
Carbon	12-2	87250	88320	88307	87959	0.70	cps
Chlorine	35-1	2940902	2807259	2708092	2818751	4.14	cps
Chlorine	35-2	10204	10167	9843	10071	1.97	cps
Chromium	52-2	8302	8302	8649	8418	2.38	cps
Cobalt	59-2	780	840	763	794	5.08	cps
Copper	63-2	22768	22982	23156	22969	0.84	cps
Dysprosium	156-1	63	67	100	77	26.45	cps
Dysprosium	156-2	10	30	7	16	81.11	cps
Erbium	164-1	147	180	117	148	21.44	cps
Erbium	164-2	43	43	60	49	19.69	cps
Gadolinium	160-1	170	170	187	176	5.48	cps
Gadolinium	160-2	50	60	43	51	16.42	cps
Holmium	165-1	20499710	20346904	20050071	20298895	1.13	cps
Holmium	165-2	7302917	7609398	7337643	7416652	2.26	cps
Indium	115-1	16819381	16259997	16171250	16416876	2.14	cps
Indium	115-2	1679816	1680966	1686104	1682295	0.20	cps
Iron	54-2	32230	32858	31872	32320	1.54	cps
Iron	56-2	580536	588712	584114	584454	0.70	cps
Iron	57-2	15138	14581	14738	14819	1.94	cps
Krypton	83-1	247	267	297	270	9.32	cps
Lead	206-1	9991	10234	10454	10226	2.27	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8480	8523	8546	8516	0.40	cps
Lead	208-1	39567	39717	40278	39854	0.94	cps
Lithium	6-1	9539068	9305045	9522739	9455617	1.38	cps
Magnesium	24-2	10832799	11055674	10618285	10835586	2.02	cps
Manganese	55-2	87667	87570	88646	87961	0.68	cps
Molybdenum	94-1	144606	147317	146896	146273	1.00	cps
Molybdenum	95-1	242838	251717	250062	248206	1.90	cps
Molybdenum	96-1	265804	267021	265773	266199	0.27	cps
Molybdenum	97-1	155315	156326	155331	155657	0.37	cps
Molybdenum	98-1	393140	403895	399638	398891	1.36	cps
Neodymium	150-1	93	93	90	92	2.08	cps
Neodymium	150-2	10	23	10	14	53.28	cps
Nickel	60-2	8940	9066	9230	9079	1.60	cps
Phosphorus	31-2	340	310	347	332	5.88	cps
Potassium	39-2	9509301	9321582	9351121	9394001	1.07	cps
Rhodium	103-1	15356135	15113715	15219449	15229766	0.80	cps
Rhodium	103-2	6081665	6100568	6202871	6128368	1.06	cps
Scandium	45-1	12145639	12014232	11914950	12024940	0.96	cps
Scandium	45-2	230371	234276	233243	232630	0.87	cps
Selenium	82-1	297	357	340	331	9.35	cps
Selenium	77-2	0	7	3	3	100.05	cps
Selenium	78-2	23	20	17	20	16.65	cps
Silicon	28-1	119811502	119483672	120901358	120065510	0.62	cps
Silver	107-1	893	943	867	901	4.32	cps
Silver	109-1	770	717	737	741	3.64	cps
Sodium	23-2	22408182	22233009	21832504	22157898	1.33	cps
Strontium	86-1	1957150	2003556	1974901	1978536	1.18	cps
Strontium	88-1	16797092	17071570	17093114	16987259	0.97	cps
Sulfur	34-1	6362777	6316514	6318842	6332711	0.41	cps
Terbium	159-1	20943670	20563069	20454329	20653689	1.24	cps
Terbium	159-2	7011809	7209003	7201485	7140766	1.56	cps
Thallium	203-1	490	450	477	472	4.31	cps
Thallium	205-1	1070	977	1053	1033	4.82	cps
Tin	118-1	240715	241636	247382	243244	1.49	cps
Titanium	47-1	3414	3397	3324	3378	1.42	cps
Uranium	238-1	83496	86445	86321	85421	1.95	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-17	Instrumnet Name :	P8
Client Sample ID :	ME2968	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:50:47	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3744	3704	3744	3731	0.62	cps
Ytterbium	172-1	117	100	163	127	25.92	cps
Ytterbium	172-2	57	53	67	59	11.79	cps
Ytterbium	176-1	1850	2027	2017	1965	5.05	cps
Ytterbium	176-2	270	307	367	314	15.52	cps
Yttrium	89-1	29607475	29577919	28985698	29390364	1.19	cps
Yttrium	89-2	2139141	2173882	2181772	2164932	1.05	cps
Zinc	66-2	199307	200906	198468	199561	0.62	cps
Zirconium	90-1	2230	2334	2104	2222	5.18	cps
Zirconium	91-1	463	443	473	460	3.32	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1030	1207	1087	1108	8.14	cps
Antimony	121-1	1680	1617	1427	1575	8.37	cps
Arsenic	75-2	773	720	760	751	3.70	cps
Barium	135-1	384291	387741	386832	386288	0.46	cps
Barium	137-1	668601	677468	676265	674111	0.71	cps
Beryllium	9-1	560	565	497	541	6.95	cps
Bismuth	209-1	11837994	11932493	12358214	12042900	2.30	cps
Bismuth	209-2	5322587	5298303	5303861	5308250	0.24	cps
Bromine	81-1	63667	65412	66272	65117	2.04	cps
Cadmium	108-1	50	63	63	59	13.07	cps
Cadmium	106-1	8102	8509	8309	8307	2.45	cps
Cadmium	111-1	5740	5996	5835	5857	2.20	cps
Calcium	43-1	9619886	9676667	9722218	9672924	0.53	cps
Calcium	44-1	152413664	153230888	154332611	153325721	0.63	cps
Carbon	12-1	10225048	10828423	11121013	10724828	4.26	cps
Carbon	12-2	72581	73432	73901	73305	0.91	cps
Chlorine	35-1	2167675	2233643	2242890	2214736	1.85	cps
Chlorine	35-2	9330	9523	8926	9260	3.29	cps
Chromium	52-2	5608	5745	5868	5740	2.27	cps
Cobalt	59-2	1513	1570	1423	1502	4.92	cps
Copper	63-2	8039	8199	8466	8235	2.62	cps
Dysprosium	156-1	93	110	123	109	13.81	cps
Dysprosium	156-2	37	20	40	32	33.25	cps
Erbium	164-1	147	213	170	177	19.15	cps
Erbium	164-2	37	57	67	53	28.64	cps
Gadolinium	160-1	173	187	220	193	12.43	cps
Gadolinium	160-2	70	73	37	60	33.79	cps
Holmium	165-1	19628790	19874070	20445273	19982711	2.10	cps
Holmium	165-2	7570072	7393816	7401518	7455135	1.34	cps
Indium	115-1	15777507	15958403	16460524	16065478	2.20	cps
Indium	115-2	1683195	1684763	1723431	1697130	1.34	cps
Iron	54-2	156433	156321	155509	156088	0.32	cps
Iron	56-2	3005074	2980475	2941090	2975546	1.08	cps
Iron	57-2	72443	71424	72366	72078	0.79	cps
Krypton	83-1	260	300	237	266	12.06	cps
Lead	206-1	4381	4291	4234	4302	1.72	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3524	3591	3464	3526	1.80	cps
Lead	208-1	16784	16484	16541	16603	0.96	cps
Lithium	6-1	8996945	9013222	9284387	9098185	1.77	cps
Magnesium	24-2	11104064	10790577	10664624	10853088	2.09	cps
Manganese	55-2	116806	115509	113053	115123	1.66	cps
Molybdenum	94-1	39493	40860	40673	40342	1.84	cps
Molybdenum	95-1	66297	67074	66997	66789	0.64	cps
Molybdenum	96-1	70920	72183	72233	71779	1.04	cps
Molybdenum	97-1	41502	41876	41438	41605	0.57	cps
Molybdenum	98-1	106874	107836	107748	107486	0.49	cps
Neodymium	150-1	103	147	137	129	17.61	cps
Neodymium	150-2	3	27	7	12	103.26	cps
Nickel	60-2	5448	5308	5311	5355	1.49	cps
Phosphorus	31-2	500	403	370	424	15.91	cps
Potassium	39-2	757512	747996	748610	751373	0.71	cps
Rhodium	103-1	14707166	14783826	14878750	14789914	0.58	cps
Rhodium	103-2	6081997	6043316	6062604	6062639	0.32	cps
Scandium	45-1	11513880	11644178	11923455	11693838	1.79	cps
Scandium	45-2	234467	229915	231122	231834	1.02	cps
Selenium	82-1	63	73	127	88	38.79	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	13	17	17	16	12.40	cps
Silicon	28-1	120638128	124920551	122512578	122690419	1.75	cps
Silver	107-1	547	573	487	536	8.29	cps
Silver	109-1	230	283	240	251	11.29	cps
Sodium	23-2	6172061	6109658	6053676	6111798	0.97	cps
Strontium	86-1	90952865	93884002	90928349	91921739	1.85	cps
Strontium	88-1	789370202	811574095	786439535	795794610	1.73	cps
Sulfur	34-1	10092881	10116586	10149765	10119744	0.28	cps
Terbium	159-1	20493313	20109776	20774403	20459164	1.63	cps
Terbium	159-2	7236796	7057595	7206321	7166904	1.34	cps
Thallium	203-1	310	393	380	361	12.40	cps
Thallium	205-1	793	810	780	794	1.89	cps
Tin	118-1	7719	7539	7502	7587	1.53	cps
Titanium	47-1	3457	3621	3444	3507	2.81	cps
Uranium	238-1	107661	109807	110496	109321	1.35	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-18	Instrumnet Name :	P8
Client Sample ID :	ME2974	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:53:58	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3574	3684	3497	3585	2.62	cps
Ytterbium	172-1	147	153	137	146	5.76	cps
Ytterbium	172-2	87	70	67	74	14.39	cps
Ytterbium	176-1	1857	1787	1863	1836	2.31	cps
Ytterbium	176-2	290	387	313	330	15.29	cps
Yttrium	89-1	28455839	28310330	29125641	28630603	1.52	cps
Yttrium	89-2	2149312	2167390	2160515	2159072	0.42	cps
Zinc	66-2	860	847	937	881	5.51	cps
Zirconium	90-1	4411	4601	5313	4775	9.96	cps
Zirconium	91-1	980	977	967	974	0.71	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1163	1000	1130	1098	7.86	cps
Antimony	121-1	637	620	603	620	2.69	cps
Arsenic	75-2	90	120	110	107	14.32	cps
Barium	135-1	145048	148399	151861	148436	2.30	cps
Barium	137-1	254307	261639	262606	259517	1.75	cps
Beryllium	9-1	522	525	529	525	0.60	cps
Bismuth	209-1	11396755	11670204	11526961	11531307	1.19	cps
Bismuth	209-2	5189082	5304788	5065018	5186296	2.31	cps
Bromine	81-1	134804	159557	175514	156625	13.10	cps
Cadmium	108-1	40	33	17	30	40.05	cps
Cadmium	106-1	7669	8119	8189	7992	3.53	cps
Cadmium	111-1	5377	5690	5747	5605	3.56	cps
Calcium	43-1	25403345	26200322	26223288	25942318	1.80	cps
Calcium	44-1	411012221	422445527	428646327	420701358	2.13	cps
Carbon	12-1	8827108	9329099	9879564	9345257	5.63	cps
Carbon	12-2	67387	67527	66489	67135	0.84	cps
Chlorine	35-1	4658847	5218398	5342493	5073246	7.18	cps
Chlorine	35-2	23619	23569	23462	23550	0.34	cps
Chromium	52-2	2024	2040	2147	2070	3.23	cps
Cobalt	59-2	1073	983	1060	1039	4.68	cps
Copper	63-2	4131	4391	4611	4377	5.49	cps
Dysprosium	156-1	167	203	157	176	14.00	cps
Dysprosium	156-2	97	43	30	57	62.26	cps
Erbium	164-1	290	310	317	306	4.54	cps
Erbium	164-2	97	120	103	107	11.27	cps
Gadolinium	160-1	277	287	277	280	2.06	cps
Gadolinium	160-2	117	103	87	102	14.70	cps
Holmium	165-1	19651399	19575547	19698600	19641848	0.32	cps
Holmium	165-2	7374863	7637844	7331363	7448024	2.23	cps
Indium	115-1	15635010	15660180	15791779	15695656	0.54	cps
Indium	115-2	1684676	1729614	1664660	1692983	1.96	cps
Iron	54-2	201344	200328	198145	199939	0.82	cps
Iron	56-2	3900688	3811436	3852318	3854814	1.16	cps
Iron	57-2	95594	91279	93199	93357	2.32	cps
Krypton	83-1	257	277	367	300	19.53	cps
Lead	206-1	2664	2894	2920	2826	4.99	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2297	2594	2664	2518	7.73	cps
Lead	208-1	10849	11509	11665	11341	3.82	cps
Lithium	6-1	9132831	8942076	9232981	9102629	1.62	cps
Magnesium	24-2	33440698	32028000	31928341	32465680	2.61	cps
Manganese	55-2	280320	274827	277318	277488	0.99	cps
Molybdenum	94-1	3921	3904	3797	3874	1.73	cps
Molybdenum	95-1	3407	3307	3320	3345	1.62	cps
Molybdenum	96-1	3691	3751	3724	3722	0.81	cps
Molybdenum	97-1	1960	1923	1940	1941	0.95	cps
Molybdenum	98-1	5294	5078	5111	5161	2.26	cps
Neodymium	150-1	250	200	283	244	17.16	cps
Neodymium	150-2	97	83	70	83	16.00	cps
Nickel	60-2	1127	1077	1063	1089	3.07	cps
Phosphorus	31-2	223	177	237	212	14.85	cps
Potassium	39-2	512980	506997	502798	507591	1.01	cps
Rhodium	103-1	14294883	14564137	14499244	14452755	0.97	cps
Rhodium	103-2	5960388	6202416	6029436	6064080	2.06	cps
Scandium	45-1	11528799	11790617	11581556	11633657	1.19	cps
Scandium	45-2	233635	243249	232532	236472	2.49	cps
Selenium	82-1	150	173	17	113	74.59	cps
Selenium	77-2	0	7	3	3	100.05	cps
Selenium	78-2	17	7	17	13	43.29	cps
Silicon	28-1	83092324	84808097	85220169	84373530	1.34	cps
Silver	107-1	377	480	493	450	14.19	cps
Silver	109-1	153	227	280	220	28.91	cps
Sodium	23-2	12878148	12870109	12520446	12756234	1.60	cps
Strontium	86-1	65402017	67237189	68345851	66995019	2.22	cps
Strontium	88-1	567289978	575133751	591919898	578114542	2.18	cps
Sulfur	34-1	36774167	37687180	37762648	37407998	1.47	cps
Terbium	159-1	20331699	20350702	20901657	20528019	1.58	cps
Terbium	159-2	7012904	7384847	6961224	7119659	3.25	cps
Thallium	203-1	347	333	317	332	4.53	cps
Thallium	205-1	853	800	923	859	7.20	cps
Tin	118-1	8546	8690	8810	8682	1.52	cps
Titanium	47-1	2307	2377	2770	2485	10.05	cps
Uranium	238-1	7779	8326	8253	8119	3.66	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-19	Instrumnet Name :	P8
Client Sample ID :	ME2977	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 14:57:15	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	417	447	377	413	8.50	cps
Ytterbium	172-1	210	203	167	193	12.07	cps
Ytterbium	172-2	113	87	83	94	17.41	cps
Ytterbium	176-1	1823	2014	2090	1976	6.95	cps
Ytterbium	176-2	343	410	297	350	16.27	cps
Yttrium	89-1	28644748	28497282	29155756	28765929	1.20	cps
Yttrium	89-2	2148237	2226884	2165476	2180199	1.90	cps
Zinc	66-2	1620	1627	1597	1615	0.98	cps
Zirconium	90-1	5278	5321	5434	5344	1.51	cps
Zirconium	91-1	1117	1260	1247	1208	6.56	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4908	4981	5204	5031	3.07	cps
Antimony	121-1	10384	10331	10097	10271	1.49	cps
Arsenic	75-2	620	727	673	673	7.92	cps
Barium	135-1	132686	135662	137564	135304	1.82	cps
Barium	137-1	232750	237661	236150	235521	1.07	cps
Beryllium	9-1	545	590	606	580	5.47	cps
Bismuth	209-1	12371973	11314747	12672686	12119802	5.88	cps
Bismuth	209-2	5920966	5641261	5522697	5694975	3.59	cps
Bromine	81-1	149353	158811	165707	157957	5.20	cps
Cadmium	108-1	180	210	210	200	8.66	cps
Cadmium	106-1	8896	7966	9006	8623	6.63	cps
Cadmium	111-1	6601	6006	6687	6432	5.77	cps
Calcium	43-1	3646198	3616138	3669023	3643786	0.73	cps
Calcium	44-1	58612741	59753161	59175182	59180361	0.96	cps
Carbon	12-1	12954994	14054050	14205610	13738218	4.97	cps
Carbon	12-2	95202	96427	97390	96340	1.14	cps
Chlorine	35-1	2525505	2636980	2649522	2604002	2.62	cps
Chlorine	35-2	10751	10898	10968	10872	1.02	cps
Chromium	52-2	3664	3610	3824	3699	3.00	cps
Cobalt	59-2	14571	14708	14641	14640	0.47	cps
Copper	63-2	39702	39986	39769	39819	0.37	cps
Dysprosium	156-1	683	817	783	761	9.12	cps
Dysprosium	156-2	233	247	233	238	3.24	cps
Erbium	164-1	550	610	600	587	5.48	cps
Erbium	164-2	237	200	180	206	13.98	cps
Gadolinium	160-1	800	777	713	763	5.88	cps
Gadolinium	160-2	253	293	320	289	11.62	cps
Holmium	165-1	20391699	19208611	20934362	20178224	4.37	cps
Holmium	165-2	8364739	7884089	7798565	8015798	3.81	cps
Indium	115-1	16316454	15355876	17299796	16324042	5.95	cps
Indium	115-2	1946448	1818610	1791229	1852096	4.47	cps
Iron	54-2	127620	127139	128202	127654	0.42	cps
Iron	56-2	2499608	2444769	2447541	2463973	1.25	cps
Iron	57-2	58918	58627	59319	58955	0.59	cps
Krypton	83-1	280	293	283	286	2.43	cps
Lead	206-1	26220	26895	26544	26553	1.27	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	21461	22045	22243	21916	1.85	cps
Lead	208-1	100699	102490	102745	101978	1.09	cps
Lithium	6-1	9643298	9183631	9809033	9545321	3.39	cps
Magnesium	24-2	12927626	12776464	13133092	12945727	1.38	cps
Manganese	55-2	165407	164108	166883	165466	0.84	cps
Molybdenum	94-1	219933	222837	224781	222517	1.10	cps
Molybdenum	95-1	377521	380606	384651	380926	0.94	cps
Molybdenum	96-1	406149	414415	411170	410578	1.01	cps
Molybdenum	97-1	232699	241342	239178	237740	1.89	cps
Molybdenum	98-1	601017	613827	617803	610883	1.44	cps
Neodymium	150-1	1000	1153	1000	1051	8.42	cps
Neodymium	150-2	283	233	230	249	12.00	cps
Nickel	60-2	35842	34539	34833	35071	1.95	cps
Phosphorus	31-2	297	277	267	280	5.46	cps
Potassium	39-2	5729468	5842563	5915630	5829220	1.61	cps
Rhodium	103-1	15290026	14359481	15717829	15122445	4.59	cps
Rhodium	103-2	6981239	6508611	6315922	6601924	5.19	cps
Scandium	45-1	12380019	11480941	12514766	12125242	4.64	cps
Scandium	45-2	270688	251894	248730	257104	4.62	cps
Selenium	82-1	280	240	427	316	31.15	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	27	13	23	21	32.88	cps
Silicon	28-1	45240783	45710873	45385298	45445651	0.53	cps
Silver	107-1	2394	2280	2317	2330	2.48	cps
Silver	109-1	2067	2147	2014	2076	3.23	cps
Sodium	23-2	17758992	17655043	17738412	17717482	0.31	cps
Strontium	86-1	2912909	3006925	2965207	2961680	1.59	cps
Strontium	88-1	25167428	25701432	25669708	25512856	1.17	cps
Sulfur	34-1	6221807	6124153	6225934	6190631	0.93	cps
Terbium	159-1	20899572	19187051	21565305	20550642	5.97	cps
Terbium	159-2	8078164	7569267	7475578	7707670	4.21	cps
Thallium	203-1	1070	1243	1133	1149	7.63	cps
Thallium	205-1	2674	2764	2844	2760	3.08	cps
Tin	118-1	8996	9557	9357	9303	3.05	cps
Titanium	47-1	2290	2187	2134	2204	3.62	cps
Uranium	238-1	256376	257377	257624	257126	0.26	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-20	Instrumnet Name :	P8
Client Sample ID :	ME2980	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:00:28	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4834	4848	4958	4880	1.39	cps
Ytterbium	172-1	307	250	327	294	13.50	cps
Ytterbium	172-2	120	150	123	131	12.54	cps
Ytterbium	176-1	2180	2010	2234	2141	5.45	cps
Ytterbium	176-2	437	400	397	411	5.40	cps
Yttrium	89-1	29980608	28029828	30832547	29614328	4.85	cps
Yttrium	89-2	2486650	2304839	2256731	2349407	5.16	cps
Zinc	66-2	1573	1593	1543	1570	1.60	cps
Zirconium	90-1	3347	3497	3607	3484	3.75	cps
Zirconium	91-1	693	693	777	721	6.67	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	420	470	427	439	6.19	cps
Antimony	121-1	237	283	290	270	10.76	cps
Arsenic	75-2	73	30	53	52	41.53	cps
Barium	135-1	65414	67011	67427	66617	1.60	cps
Barium	137-1	114647	117653	118318	116873	1.67	cps
Beryllium	9-1	472	519	482	491	4.95	cps
Bismuth	209-1	11426522	11535385	11437702	11466536	0.52	cps
Bismuth	209-2	4733729	4864830	4756259	4784939	1.46	cps
Bromine	81-1	119888	144028	155081	139665	12.89	cps
Cadmium	108-1	33	40	20	31	32.73	cps
Cadmium	106-1	8172	8469	8129	8257	2.24	cps
Cadmium	111-1	5757	5957	5736	5817	2.10	cps
Calcium	43-1	27222274	27861020	27648406	27577233	1.18	cps
Calcium	44-1	435757847	449147580	451086060	445330496	1.87	cps
Carbon	12-1	8971053	9660830	10126215	9586033	6.06	cps
Carbon	12-2	68937	69048	71355	69780	1.96	cps
Chlorine	35-1	31761167	35999073	37444731	35068324	8.42	cps
Chlorine	35-2	161234	162407	164554	162731	1.03	cps
Chromium	52-2	1823	1860	1640	1775	6.64	cps
Cobalt	59-2	460	510	467	479	5.67	cps
Copper	63-2	5134	5675	5574	5461	5.26	cps
Dysprosium	156-1	60	57	63	60	5.55	cps
Dysprosium	156-2	17	7	20	14	48.02	cps
Erbium	164-1	120	117	137	124	8.61	cps
Erbium	164-2	77	50	30	52	44.83	cps
Gadolinium	160-1	110	150	193	151	27.58	cps
Gadolinium	160-2	57	40	33	43	27.74	cps
Holmium	165-1	19957672	19874583	19709729	19847328	0.64	cps
Holmium	165-2	6842512	7172322	6878975	6964603	2.60	cps
Indium	115-1	15705580	15856117	15717869	15759856	0.53	cps
Indium	115-2	1482868	1599670	1538667	1540402	3.79	cps
Iron	54-2	228066	230094	231381	229847	0.73	cps
Iron	56-2	4403573	4312553	4343461	4353196	1.06	cps
Iron	57-2	106789	107353	106964	107035	0.27	cps
Krypton	83-1	363	343	290	332	11.41	cps
Lead	206-1	2737	3077	3094	2969	6.78	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2480	2687	2834	2667	6.66	cps
Lead	208-1	11062	12072	12129	11754	5.11	cps
Lithium	6-1	9037333	9242810	9149347	9143163	1.13	cps
Magnesium	24-2	41141718	40802064	41322690	41088824	0.64	cps
Manganese	55-2	86604	87254	86694	86851	0.41	cps
Molybdenum	94-1	4581	4728	4584	4631	1.81	cps
Molybdenum	95-1	7075	6695	7045	6938	3.05	cps
Molybdenum	96-1	6842	7129	7429	7133	4.11	cps
Molybdenum	97-1	3987	4131	4221	4113	2.86	cps
Molybdenum	98-1	10187	10437	10351	10325	1.23	cps
Neodymium	150-1	83	97	97	92	8.35	cps
Neodymium	150-2	17	17	10	14	26.66	cps
Nickel	60-2	1247	1250	1193	1230	2.59	cps
Phosphorus	31-2	140	120	150	137	11.18	cps
Potassium	39-2	807312	812444	808071	809276	0.34	cps
Rhodium	103-1	14169962	14389877	14261411	14273750	0.77	cps
Rhodium	103-2	5407071	5689532	5418291	5504965	2.91	cps
Scandium	45-1	11778421	11876804	11823388	11826204	0.42	cps
Scandium	45-2	219789	226705	220212	222235	1.74	cps
Selenium	82-1	37	120	137	98	54.79	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	27	13	14	81.07	cps
Silicon	28-1	117462955	121816065	124893525	121390848	3.08	cps
Silver	107-1	677	720	820	739	9.95	cps
Silver	109-1	443	513	583	513	13.64	cps
Sodium	23-2	106779492	105738468	106992365	106503442	0.63	cps
Strontium	86-1	82376817	82590484	84404314	83123872	1.34	cps
Strontium	88-1	700869510	726588843	722519189	716659180	1.93	cps
Sulfur	34-1	38628055	39219524	39255485	39034355	0.90	cps
Terbium	159-1	20067128	20470630	20273403	20270387	1.00	cps
Terbium	159-2	6665452	6899161	6742114	6768909	1.76	cps
Thallium	203-1	347	360	400	369	7.52	cps
Thallium	205-1	787	977	880	881	10.78	cps
Tin	118-1	9547	10214	9560	9774	3.90	cps
Titanium	47-1	2427	2417	2490	2445	1.63	cps
Uranium	238-1	12980	12797	13003	12927	0.88	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09RE	Instrumnet Name :	P8
Client Sample ID :	ME2959	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:03:40	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	93	90	103	96	7.27	cps
Ytterbium	172-1	143	113	117	124	13.21	cps
Ytterbium	172-2	70	57	37	54	30.81	cps
Ytterbium	176-1	2164	1810	1870	1948	9.71	cps
Ytterbium	176-2	277	290	330	299	9.29	cps
Yttrium	89-1	28613810	29381344	28449735	28814963	1.73	cps
Yttrium	89-2	2028509	2112449	2015475	2052144	2.56	cps
Zinc	66-2	753	730	787	757	3.76	cps
Zirconium	90-1	1990	1953	1793	1912	5.47	cps
Zirconium	91-1	427	437	323	396	15.86	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	430	393	390	404	5.49	cps
Antimony	121-1	280	390	267	312	21.68	cps
Arsenic	75-2	53	43	67	54	21.51	cps
Barium	135-1	65417	66227	65367	65670	0.74	cps
Barium	137-1	114375	115555	114479	114803	0.57	cps
Beryllium	9-1	492	464	495	484	3.59	cps
Bismuth	209-1	11349028	10891625	11571738	11270797	3.08	cps
Bismuth	209-2	4855250	4898674	4750030	4834651	1.58	cps
Bromine	81-1	127488	147048	156950	143829	10.42	cps
Cadmium	108-1	20	40	30	30	33.33	cps
Cadmium	106-1	8503	7976	8503	8327	3.65	cps
Cadmium	111-1	5991	5598	5971	5853	3.78	cps
Calcium	43-1	26987466	27388189	26890625	27088760	0.97	cps
Calcium	44-1	439724167	436835740	429130034	435229980	1.26	cps
Carbon	12-1	9142717	9761909	10202120	9702248	5.49	cps
Carbon	12-2	69399	69986	69694	69693	0.42	cps
Chlorine	35-1	33989446	36963875	37596048	36183123	5.32	cps
Chlorine	35-2	162923	165551	166889	165121	1.22	cps
Chromium	52-2	2480	2487	2380	2449	2.44	cps
Cobalt	59-2	507	513	457	492	6.29	cps
Copper	63-2	23536	24207	23914	23886	1.41	cps
Dysprosium	156-1	80	80	73	78	4.95	cps
Dysprosium	156-2	23	17	20	20	16.65	cps
Erbium	164-1	147	133	143	141	4.92	cps
Erbium	164-2	50	37	63	50	26.66	cps
Gadolinium	160-1	187	210	197	198	5.92	cps
Gadolinium	160-2	50	53	57	53	6.25	cps
Holmium	165-1	19796583	18835743	20044984	19559103	3.27	cps
Holmium	165-2	7110664	7031421	6958772	7033619	1.08	cps
Indium	115-1	15511827	15459529	16098524	15689960	2.26	cps
Indium	115-2	1609749	1601943	1578798	1596830	1.01	cps
Iron	54-2	251762	252156	250235	251384	0.40	cps
Iron	56-2	4830063	4779813	4746722	4785533	0.88	cps
Iron	57-2	115349	116807	115923	116026	0.63	cps
Krypton	83-1	247	350	323	307	17.49	cps
Lead	206-1	2667	2597	2827	2697	4.37	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2167	2127	2230	2175	2.40	cps
Lead	208-1	10148	10385	10869	10467	3.51	cps
Lithium	6-1	9216131	8861091	9451437	9176220	3.24	cps
Magnesium	24-2	39860483	40640578	40928479	40476513	1.37	cps
Manganese	55-2	85681	84428	85457	85189	0.78	cps
Molybdenum	94-1	4424	4564	4407	4465	1.93	cps
Molybdenum	95-1	6668	6792	6498	6653	2.22	cps
Molybdenum	96-1	7012	7219	7252	7161	1.82	cps
Molybdenum	97-1	4091	3867	4027	3995	2.88	cps
Molybdenum	98-1	10637	10728	10087	10484	3.31	cps
Neodymium	150-1	63	43	67	58	21.85	cps
Neodymium	150-2	7	23	13	14	58.06	cps
Nickel	60-2	1367	1367	1520	1418	6.24	cps
Phosphorus	31-2	120	167	133	140	17.17	cps
Potassium	39-2	799955	801404	801465	800941	0.11	cps
Rhodium	103-1	14182962	13826639	14276096	14095232	1.68	cps
Rhodium	103-2	5643850	5642449	5473512	5586604	1.75	cps
Scandium	45-1	11782449	11615029	11980324	11792600	1.55	cps
Scandium	45-2	228505	227931	225865	227434	0.61	cps
Selenium	82-1	183	73	90	116	51.31	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	13	7	10	33.30	cps
Silicon	28-1	119977472	121270575	119191282	120146443	0.87	cps
Silver	107-1	820	893	963	892	8.03	cps
Silver	109-1	453	590	580	541	14.08	cps
Sodium	23-2	106136095	104403268	104503138	105014167	0.93	cps
Strontium	86-1	80786064	81531559	80841989	81053204	0.51	cps
Strontium	88-1	694641296	688175190	702249216	695021901	1.01	cps
Sulfur	34-1	38042902	39255629	38354934	38551155	1.63	cps
Terbium	159-1	19830953	19213180	20379642	19807925	2.95	cps
Terbium	159-2	6890201	6883924	6682368	6818831	1.73	cps
Thallium	203-1	327	320	367	338	7.47	cps
Thallium	205-1	880	830	900	870	4.14	cps
Tin	118-1	8960	9560	9297	9272	3.25	cps
Titanium	47-1	2377	2420	2484	2427	2.21	cps
Uranium	238-1	12503	12807	12296	12535	2.05	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-10RE	Instrumnet Name :	P8
Client Sample ID :	ME2959D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:06:55	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	117	120	87	108	17.03	cps
Ytterbium	172-1	77	130	140	116	29.46	cps
Ytterbium	172-2	50	60	40	50	20.00	cps
Ytterbium	176-1	1877	1847	2130	1951	7.98	cps
Ytterbium	176-2	310	277	340	309	10.26	cps
Yttrium	89-1	28877901	27548026	29056860	28494262	2.89	cps
Yttrium	89-2	2109461	2080020	2019934	2069805	2.20	cps
Zinc	66-2	977	973	973	974	0.20	cps
Zirconium	90-1	1763	1870	1780	1805	3.18	cps
Zirconium	91-1	370	343	380	364	5.20	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	323	423	357	368	13.84	cps
Antimony	121-1	127	103	100	110	13.21	cps
Arsenic	75-2	13	17	17	16	12.40	cps
Barium	135-1	13667	13427	13063	13386	2.27	cps
Barium	137-1	24165	23524	22749	23479	3.02	cps
Beryllium	9-1	497	520	476	498	4.39	cps
Bismuth	209-1	12214248	12048979	11287677	11850301	4.17	cps
Bismuth	209-2	5139764	4903523	5242500	5095262	3.41	cps
Bromine	81-1	57229	58635	57855	57907	1.22	cps
Cadmium	108-1	10	30	17	19	53.91	cps
Cadmium	106-1	8579	8650	8329	8519	1.98	cps
Cadmium	111-1	6032	6054	5836	5974	2.01	cps
Calcium	43-1	5631337	5564094	5339022	5511484	2.78	cps
Calcium	44-1	90006662	91169105	86076119	89083962	3.00	cps
Carbon	12-1	7656128	7748031	7629971	7678043	0.81	cps
Carbon	12-2	48841	49279	49610	49243	0.78	cps
Chlorine	35-1	9304240	9555349	9440969	9433520	1.33	cps
Chlorine	35-2	39350	39788	40373	39837	1.29	cps
Chromium	52-2	1540	1460	1547	1516	3.18	cps
Cobalt	59-2	163	180	137	160	13.66	cps
Copper	63-2	6398	6335	6331	6355	0.59	cps
Dysprosium	156-1	30	20	40	30	33.33	cps
Dysprosium	156-2	10	10	7	9	21.63	cps
Erbium	164-1	133	113	80	109	24.75	cps
Erbium	164-2	17	43	33	31	43.29	cps
Gadolinium	160-1	130	130	100	120	14.43	cps
Gadolinium	160-2	23	27	40	30	29.40	cps
Holmium	165-1	20396493	19521146	18654433	19524024	4.46	cps
Holmium	165-2	7166208	7001645	7171417	7113090	1.36	cps
Indium	115-1	16441292	16033264	15365759	15946772	3.40	cps
Indium	115-2	1670776	1592515	1642875	1635389	2.43	cps
Iron	54-2	46542	47542	46930	47005	1.07	cps
Iron	56-2	856956	862298	863546	860934	0.41	cps
Iron	57-2	21546	21646	21887	21693	0.81	cps
Krypton	83-1	283	223	313	273	16.77	cps
Lead	206-1	2374	2120	2024	2172	8.32	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1900	1870	1710	1827	5.59	cps
Lead	208-1	8785	8471	8171	8476	3.62	cps
Lithium	6-1	9761144	9603442	8959228	9441271	4.50	cps
Magnesium	24-2	8151997	8350963	8349829	8284263	1.38	cps
Manganese	55-2	21369	21446	21473	21430	0.25	cps
Molybdenum	94-1	1373	1363	1357	1365	0.62	cps
Molybdenum	95-1	1697	1640	1563	1633	4.10	cps
Molybdenum	96-1	1783	1583	1787	1718	6.78	cps
Molybdenum	97-1	1070	950	867	962	10.62	cps
Molybdenum	98-1	2370	2424	2427	2407	1.32	cps
Neodymium	150-1	40	17	17	24	55.10	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	1063	1097	1193	1118	6.04	cps
Phosphorus	31-2	97	97	87	93	6.19	cps
Potassium	39-2	175560	179022	178219	177600	1.02	cps
Rhodium	103-1	15296438	15186638	14162733	14881936	4.20	cps
Rhodium	103-2	6108952	5869128	6022295	6000125	2.02	cps
Scandium	45-1	12034821	12016421	11395540	11815594	3.08	cps
Scandium	45-2	231160	220791	232955	228302	2.88	cps
Selenium	82-1	80	73	-20	44	125.80	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	0	20	17	12	87.67	cps
Silicon	28-1	25395236	25160130	23989985	24848451	3.03	cps
Silver	107-1	630	503	463	532	16.35	cps
Silver	109-1	330	353	320	334	5.11	cps
Sodium	23-2	20775194	21183534	21420400	21126376	1.54	cps
Strontium	86-1	16689568	16545479	15984770	16406605	2.27	cps
Strontium	88-1	142922365	143122288	138609741	141551465	1.80	cps
Sulfur	34-1	8878444	8653669	8292682	8608265	3.43	cps
Terbium	159-1	20442888	20229269	19054738	19908965	3.75	cps
Terbium	159-2	6845912	6732588	6994236	6857579	1.91	cps
Thallium	203-1	363	317	277	319	13.60	cps
Thallium	205-1	790	813	870	824	4.99	cps
Tin	118-1	4971	4728	4571	4756	4.24	cps
Titanium	47-1	757	687	777	740	6.39	cps
Uranium	238-1	2447	2567	2497	2504	2.41	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09LREX5	Instrumnet Name :	P8
Client Sample ID :	ME2959L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:10:12	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	20	30	29	29.04	cps
Ytterbium	172-1	133	110	113	119	10.62	cps
Ytterbium	172-2	53	43	53	50	11.55	cps
Ytterbium	176-1	2000	1954	1763	1906	6.58	cps
Ytterbium	176-2	263	257	323	281	13.06	cps
Yttrium	89-1	29403529	29240260	27505495	28716428	3.66	cps
Yttrium	89-2	2103967	2061968	2136278	2100738	1.77	cps
Zinc	66-2	653	760	610	674	11.45	cps
Zirconium	90-1	1203	1250	1043	1166	9.30	cps
Zirconium	91-1	243	237	213	231	6.82	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	149887	148388	148280	148852	0.60	cps
Antimony	121-1	1732634	1731125	1743595	1735785	0.39	cps
Arsenic	75-2	14998	14995	14965	14986	0.12	cps
Barium	135-1	8039330	8133679	8180719	8117909	0.89	cps
Barium	137-1	13667924	14176647	14509253	14117941	3.00	cps
Beryllium	9-1	308016	316095	320070	314727	1.95	cps
Bismuth	209-1	11615499	11072412	11198593	11295501	2.52	cps
Bismuth	209-2	5079132	4892701	5092831	5021555	2.23	cps
Bromine	81-1	118694	145442	160821	141652	15.05	cps
Cadmium	108-1	12509	12699	12759	12656	1.03	cps
Cadmium	106-1	26025	25587	25721	25777	0.87	cps
Cadmium	111-1	195511	199398	201546	198818	1.54	cps
Calcium	43-1	25765681	26419681	27084659	26423340	2.50	cps
Calcium	44-1	412190194	429329700	439914793	427144896	3.28	cps
Carbon	12-1	9695511	10841655	11461359	10666175	8.40	cps
Carbon	12-2	80693	81665	82919	81759	1.36	cps
Chlorine	35-1	62943966	69009009	72736177	68229717	7.24	cps
Chlorine	35-2	316887	321519	322526	320310	0.94	cps
Chromium	52-2	830610	822294	831840	828248	0.63	cps
Cobalt	59-2	4029622	3950631	3914439	3964897	1.49	cps
Copper	63-2	1447192	1427866	1427673	1434244	0.78	cps
Dysprosium	156-1	143	167	123	144	15.01	cps
Dysprosium	156-2	17	10	20	16	32.73	cps
Erbium	164-1	140	160	93	131	26.09	cps
Erbium	164-2	73	47	47	56	27.71	cps
Gadolinium	160-1	123	217	167	169	27.65	cps
Gadolinium	160-2	43	33	73	50	41.64	cps
Holmium	165-1	20257792	19486343	19994643	19912926	1.97	cps
Holmium	165-2	7400909	7451336	7449046	7433763	0.38	cps
Indium	115-1	16395238	15453158	15589349	15812582	3.22	cps
Indium	115-2	1687924	1668339	1704172	1686812	1.06	cps
Iron	54-2	425389	414394	416763	418848	1.38	cps
Iron	56-2	7453274	7303319	7490953	7415849	1.34	cps
Iron	57-2	179930	179110	180271	179770	0.33	cps
Krypton	83-1	273	330	347	317	12.14	cps
Lead	206-1	236939	243386	245091	241805	1.78	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	204080	208391	210923	207798	1.66	cps
Lead	208-1	942430	964531	978104	961688	1.87	cps
Lithium	6-1	9355157	9019993	9296709	9223953	1.94	cps
Magnesium	24-2	40184993	40334729	40028236	40182652	0.38	cps
Manganese	55-2	906906	886662	890987	894851	1.19	cps
Molybdenum	94-1	4534	4564	4664	4587	1.48	cps
Molybdenum	95-1	6231	6368	6788	6463	4.49	cps
Molybdenum	96-1	6668	6555	7139	6787	4.56	cps
Molybdenum	97-1	3754	4087	4047	3963	4.59	cps
Molybdenum	98-1	10034	10547	10631	10404	3.11	cps
Neodymium	150-1	637	567	683	629	9.34	cps
Neodymium	150-2	27	13	13	18	43.33	cps
Nickel	60-2	1031824	1014870	1011199	1019298	1.08	cps
Phosphorus	31-2	127	160	160	149	12.92	cps
Potassium	39-2	801086	788144	782781	790670	1.19	cps
Rhodium	103-1	14690222	14031295	14318449	14346655	2.30	cps
Rhodium	103-2	5881012	5788300	5820470	5829928	0.81	cps
Scandium	45-1	12277621	11582033	11648586	11836080	3.24	cps
Scandium	45-2	239891	234662	235720	236757	1.17	cps
Selenium	82-1	4751	5078	5078	4969	3.80	cps
Selenium	77-2	113	90	90	98	13.78	cps
Selenium	78-2	327	330	340	332	2.09	cps
Silicon	28-1	111815155	116890292	119011288	115905578	3.19	cps
Silver	107-1	920272	949104	964933	944770	2.40	cps
Silver	109-1	875004	908414	918803	900741	2.54	cps
Sodium	23-2	105447938	103050082	102383808	103627276	1.56	cps
Strontium	86-1	77574259	78013659	79629424	78405780	1.38	cps
Strontium	88-1	663033803	662065043	691063110	672053986	2.45	cps
Sulfur	34-1	36710909	37390821	38133461	37411731	1.90	cps
Terbium	159-1	20852881	19725513	20101181	20226525	2.84	cps
Terbium	159-2	7153126	7003123	7132031	7096094	1.14	cps
Thallium	203-1	727488	742289	761597	743791	2.30	cps
Thallium	205-1	1836550	1884372	1882239	1867720	1.45	cps
Tin	118-1	9553	9340	9530	9474	1.24	cps
Titanium	47-1	2430	2444	2480	2451	1.06	cps
Uranium	238-1	11959	12166	12276	12134	1.33	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-11RE	Instrumnet Name :	P8
Client Sample ID :	ME2959S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:13:23	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1737359	1676591	1723992	1712647	1.86	cps
Ytterbium	172-1	103	153	153	137	21.13	cps
Ytterbium	172-2	37	40	83	53	48.81	cps
Ytterbium	176-1	1867	1757	1843	1822	3.18	cps
Ytterbium	176-2	297	297	327	307	5.65	cps
Yttrium	89-1	29453052	28074400	28634995	28720816	2.41	cps
Yttrium	89-2	2186100	2135545	2159370	2160339	1.17	cps
Zinc	66-2	299754	294247	297014	297005	0.93	cps
Zirconium	90-1	2267	2267	2287	2274	0.51	cps
Zirconium	91-1	603	550	587	580	4.70	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	130	103	130	121	12.71	cps
Antimony	121-1	207	153	133	164	23.05	cps
Arsenic	75-2	3	7	3	4	43.40	cps
Barium	135-1	353	217	213	261	30.59	cps
Barium	137-1	530	403	350	428	21.61	cps
Beryllium	9-1	615	567	517	567	8.60	cps
Bismuth	209-1	13198886	12991830	12801133	12997283	1.53	cps
Bismuth	209-2	5865025	5735639	5849847	5816837	1.22	cps
Bromine	81-1	37911	34041	30670	34208	10.59	cps
Cadmium	108-1	7	30	30	22	60.61	cps
Cadmium	106-1	9293	9100	9050	9148	1.41	cps
Cadmium	111-1	6541	6382	6360	6428	1.53	cps
Calcium	43-1	1720	1143	1350	1405	20.80	cps
Calcium	44-1	56651	49545	49712	51969	7.80	cps
Carbon	12-1	7670417	7619473	7721766	7670552	0.67	cps
Carbon	12-2	47303	46891	47105	47100	0.44	cps
Chlorine	35-1	4537122	4060302	3715692	4104372	10.05	cps
Chlorine	35-2	13153	12812	11912	12626	5.08	cps
Chromium	52-2	1273	1443	1233	1317	8.47	cps
Cobalt	59-2	170	173	150	164	7.68	cps
Copper	63-2	6848	6755	6765	6789	0.76	cps
Dysprosium	156-1	17	17	13	16	12.40	cps
Dysprosium	156-2	7	10	3	7	50.03	cps
Erbium	164-1	87	117	90	98	16.82	cps
Erbium	164-2	40	43	30	38	18.36	cps
Gadolinium	160-1	157	150	120	142	13.73	cps
Gadolinium	160-2	20	27	20	22	17.33	cps
Holmium	165-1	21019030	20432839	20504889	20652253	1.55	cps
Holmium	165-2	7800856	7654487	7745884	7733742	0.96	cps
Indium	115-1	17634736	17120669	17268800	17341402	1.53	cps
Indium	115-2	1848917	1855142	1845188	1849749	0.27	cps
Iron	54-2	570	557	637	588	7.29	cps
Iron	56-2	7769	7562	7429	7587	2.26	cps
Iron	57-2	163	207	237	202	18.23	cps
Krypton	83-1	323	253	313	297	12.76	cps
Lead	206-1	1924	2050	1960	1978	3.30	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1987	1823	1743	1851	6.70	cps
Lead	208-1	8104	7898	7764	7922	2.16	cps
Lithium	6-1	10352188	10194414	10024182	10190261	1.61	cps
Magnesium	24-2	2560	2430	2607	2532	3.62	cps
Manganese	55-2	123	217	150	163	29.43	cps
Molybdenum	94-1	600	517	480	532	11.55	cps
Molybdenum	95-1	303	303	320	309	3.12	cps
Molybdenum	96-1	490	423	383	432	12.47	cps
Molybdenum	97-1	263	163	177	201	27.00	cps
Molybdenum	98-1	470	547	467	494	9.15	cps
Neodymium	150-1	10	3	20	11	75.52	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1043	1103	1023	1057	3.94	cps
Phosphorus	31-2	90	93	100	94	5.39	cps
Potassium	39-2	21676	21553	21272	21501	0.96	cps
Rhodium	103-1	16612050	16415111	16391041	16472734	0.74	cps
Rhodium	103-2	6814157	6730949	6827669	6790925	0.77	cps
Scandium	45-1	12796737	12619339	12568533	12661536	0.95	cps
Scandium	45-2	252926	249373	249374	250558	0.82	cps
Selenium	82-1	23	63	-27	20	225.50	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	17	7	3	9	78.08	cps
Silicon	28-1	770001	760213	757763	762659	0.85	cps
Silver	107-1	1047	943	783	924	14.35	cps
Silver	109-1	773	767	603	714	13.48	cps
Sodium	23-2	92534	91652	90880	91689	0.90	cps
Strontium	86-1	3721	2424	2450	2865	25.87	cps
Strontium	88-1	28454	18693	18976	22041	25.21	cps
Sulfur	34-1	1044131	1049291	1052208	1048543	0.39	cps
Terbium	159-1	21670601	21181151	21157488	21336413	1.36	cps
Terbium	159-2	7608939	7471345	7530616	7536967	0.92	cps
Thallium	203-1	450	447	347	414	14.17	cps
Thallium	205-1	1020	1187	1053	1087	8.12	cps
Tin	118-1	2094	2090	1953	2046	3.91	cps
Titanium	47-1	313	307	303	308	1.65	cps
Uranium	238-1	37	13	33	28	45.44	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BL	Instrumnet Name :	P8
Client Sample ID :	PBW435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:16:33	DataFile Name :	057CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	57	30	48	32.23	cps
Ytterbium	172-1	117	100	113	110	8.02	cps
Ytterbium	172-2	37	53	43	44	18.87	cps
Ytterbium	176-1	2094	2237	1907	2079	7.96	cps
Ytterbium	176-2	250	293	280	274	8.09	cps
Yttrium	89-1	31018036	31106865	30427275	30850725	1.20	cps
Yttrium	89-2	2332339	2304423	2289391	2308718	0.94	cps
Zinc	66-2	247	203	273	241	14.65	cps
Zirconium	90-1	1033	1037	1090	1053	3.02	cps
Zirconium	91-1	223	267	240	243	8.98	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3674	3544	3554	3590	2.02	cps
Antimony	121-1	77656	76308	75973	76645	1.16	cps
Arsenic	75-2	860	963	780	868	10.59	cps
Barium	135-1	87306	89020	88916	88414	1.09	cps
Barium	137-1	155357	154970	155082	155136	0.13	cps
Beryllium	9-1	15265	15750	15560	15525	1.58	cps
Bismuth	209-1	12971778	13068093	13198182	13079351	0.87	cps
Bismuth	209-2	5797848	5781133	5759667	5779550	0.33	cps
Bromine	81-1	11251	11028	10637	10972	2.83	cps
Cadmium	108-1	697	757	760	738	4.83	cps
Cadmium	106-1	10077	10231	10194	10167	0.79	cps
Cadmium	111-1	15996	16302	16120	16139	0.95	cps
Calcium	43-1	66707	68438	68368	67838	1.44	cps
Calcium	44-1	1107493	1123941	1126348	1119261	0.92	cps
Carbon	12-1	5762111	5721788	5514295	5666065	2.35	cps
Carbon	12-2	34931	35496	36058	35495	1.59	cps
Chlorine	35-1	3234626	3477842	3550492	3420987	4.84	cps
Chlorine	35-2	15118	14674	15345	15046	2.27	cps
Chromium	52-2	20575	19957	20171	20234	1.55	cps
Cobalt	59-2	17888	17945	18205	18013	0.94	cps
Copper	63-2	34141	34502	34318	34320	0.53	cps
Dysprosium	156-1	40	30	17	29	40.51	cps
Dysprosium	156-2	3	17	0	7	132.33	cps
Erbium	164-1	130	133	107	123	11.78	cps
Erbium	164-2	50	20	33	34	43.64	cps
Gadolinium	160-1	103	147	150	133	19.53	cps
Gadolinium	160-2	23	20	40	28	38.58	cps
Holmium	165-1	20749875	21081529	20802512	20877972	0.85	cps
Holmium	165-2	7849473	7818626	7764356	7810818	0.55	cps
Indium	115-1	17143188	17486583	17165976	17265249	1.11	cps
Indium	115-2	1829816	1834481	1826171	1830156	0.23	cps
Iron	54-2	77492	76483	76460	76812	0.77	cps
Iron	56-2	1472952	1446093	1432454	1450500	1.42	cps
Iron	57-2	35782	34863	34525	35056	1.85	cps
Krypton	83-1	247	313	243	268	14.75	cps
Lead	206-1	30720	30449	29801	30323	1.56	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26096	26357	26607	26354	0.97	cps
Lead	208-1	120097	121597	122044	121246	0.84	cps
Lithium	6-1	9961884	9993852	9900660	9952132	0.48	cps
Magnesium	24-2	300523	299987	300146	300219	0.09	cps
Manganese	55-2	3947	4087	4201	4078	3.11	cps
Molybdenum	94-1	79931	80628	80578	80379	0.48	cps
Molybdenum	95-1	95421	96298	94626	95448	0.88	cps
Molybdenum	96-1	106289	107895	105708	106631	1.06	cps
Molybdenum	97-1	60052	59212	60257	59841	0.92	cps
Molybdenum	98-1	152970	152834	154283	153362	0.52	cps
Neodymium	150-1	23	0	7	10	120.16	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	6035	6365	5925	6108	3.75	cps
Phosphorus	31-2	263	257	393	304	25.31	cps
Potassium	39-2	197114	196681	198762	197519	0.56	cps
Rhodium	103-1	16631932	16743471	16129903	16501768	1.98	cps
Rhodium	103-2	6701334	6661498	6794221	6719018	1.01	cps
Scandium	45-1	12599339	12512296	12568392	12560009	0.35	cps
Scandium	45-2	254733	249216	250805	251585	1.13	cps
Selenium	82-1	3110	3247	3024	3127	3.60	cps
Selenium	77-2	33	43	50	42	19.87	cps
Selenium	78-2	227	210	203	213	5.63	cps
Silicon	28-1	973183	954813	967990	965329	0.98	cps
Silver	107-1	47361	48478	48331	48057	1.26	cps
Silver	109-1	45558	45488	46201	45749	0.86	cps
Sodium	23-2	711703	706143	711073	709640	0.43	cps
Strontium	86-1	12853	13453	13203	13170	2.29	cps
Strontium	88-1	108813	110315	110802	109977	0.94	cps
Sulfur	34-1	1027500	1024776	1028169	1026815	0.18	cps
Terbium	159-1	21616221	21270906	21477163	21454764	0.81	cps
Terbium	159-2	7479776	7568008	7449666	7499150	0.82	cps
Thallium	203-1	35509	35298	35756	35521	0.65	cps
Thallium	205-1	85483	85583	85825	85630	0.21	cps
Tin	118-1	154892	156557	154072	155174	0.82	cps
Titanium	47-1	8309	8099	8430	8279	2.02	cps
Uranium	238-1	107000	108187	109077	108088	0.96	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166435BS	Instrumnet Name :	P8
Client Sample ID :	LCS435	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:24:51	DataFile Name :	059LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	35771	36216	36928	36305	1.61	cps
Ytterbium	172-1	100	107	110	106	4.82	cps
Ytterbium	172-2	40	50	60	50	20.00	cps
Ytterbium	176-1	2170	2174	2314	2219	3.69	cps
Ytterbium	176-2	413	413	410	412	0.47	cps
Yttrium	89-1	31199708	30837136	30513802	30850215	1.11	cps
Yttrium	89-2	2269216	2292271	2337516	2299667	1.51	cps
Zinc	66-2	7505	7379	7232	7372	1.86	cps
Zirconium	90-1	67505	66886	67435	67276	0.50	cps
Zirconium	91-1	14788	15309	14498	14865	2.76	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	51240	49778	51243	50754	1.66	cps
Antimony	121-1	1683	1643	1653	1660	1.25	cps
Arsenic	75-2	823	917	817	852	6.56	cps
Barium	135-1	176528	180065	181182	179258	1.36	cps
Barium	137-1	309653	312986	311247	311295	0.54	cps
Beryllium	9-1	466	434	432	444	4.31	cps
Bismuth	209-1	12458653	12273019	12114961	12282211	1.40	cps
Bismuth	209-2	5484043	5498748	5542073	5508288	0.55	cps
Bromine	81-1	253012	273519	288332	271621	6.53	cps
Cadmium	108-1	233	217	230	227	3.89	cps
Cadmium	106-1	9330	9133	8933	9132	2.17	cps
Cadmium	111-1	6621	6512	6339	6490	2.19	cps
Calcium	43-1	8712251	8724892	8777483	8738209	0.40	cps
Calcium	44-1	139796071	141964271	142830245	141530196	1.10	cps
Carbon	12-1	18053270	19693402	20469652	19405441	6.36	cps
Carbon	12-2	139566	138037	137886	138496	0.67	cps
Chlorine	35-1	3226629	3399332	3560260	3395407	4.91	cps
Chlorine	35-2	14638	14834	14995	14822	1.21	cps
Chromium	52-2	2437	2250	2374	2354	4.03	cps
Cobalt	59-2	1080	1187	1033	1100	7.15	cps
Copper	63-2	8646	8593	8663	8634	0.42	cps
Dysprosium	156-1	50	47	37	44	15.61	cps
Dysprosium	156-2	13	13	13	13	0.00	cps
Erbium	164-1	150	123	153	142	11.56	cps
Erbium	164-2	33	37	53	41	26.06	cps
Gadolinium	160-1	117	190	193	167	26.00	cps
Gadolinium	160-2	43	37	40	40	8.32	cps
Holmium	165-1	20403894	20519160	20672590	20531881	0.66	cps
Holmium	165-2	7775642	7780223	7802943	7786269	0.19	cps
Indium	115-1	16521604	16797472	16826893	16715323	1.01	cps
Indium	115-2	1764216	1757930	1772742	1764963	0.42	cps
Iron	54-2	5584	5751	5625	5653	1.54	cps
Iron	56-2	100393	100340	100440	100391	0.05	cps
Iron	57-2	2877	2850	2737	2821	2.64	cps
Krypton	83-1	230	260	233	241	6.82	cps
Lead	206-1	4404	4184	4548	4379	4.18	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3814	3477	3697	3663	4.67	cps
Lead	208-1	17475	16851	17128	17151	1.82	cps
Lithium	6-1	9701016	9749312	9917583	9789304	1.16	cps
Magnesium	24-2	9803	9823	9897	9841	0.50	cps
Manganese	55-2	5084	5308	5141	5178	2.24	cps
Molybdenum	94-1	235411	233490	234623	234508	0.41	cps
Molybdenum	95-1	400381	399236	404224	401280	0.65	cps
Molybdenum	96-1	427093	433415	435221	431910	0.99	cps
Molybdenum	97-1	248069	250055	251695	249940	0.73	cps
Molybdenum	98-1	636628	641431	642983	640347	0.52	cps
Neodymium	150-1	73	103	47	74	38.08	cps
Neodymium	150-2	20	17	20	19	10.18	cps
Nickel	60-2	379467	376213	378016	377899	0.43	cps
Phosphorus	31-2	1963	1830	1837	1877	4.00	cps
Potassium	39-2	11066928	11058974	11217198	11114367	0.80	cps
Rhodium	103-1	15403476	15436774	15387835	15409362	0.16	cps
Rhodium	103-2	6350193	6444883	6480396	6425157	1.05	cps
Scandium	45-1	12278028	12134959	12369549	12260845	0.96	cps
Scandium	45-2	249955	250070	249758	249928	0.06	cps
Selenium	82-1	480	537	447	488	9.33	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	33	27	10	23	51.50	cps
Silicon	28-1	34597737	35374040	35591323	35187700	1.48	cps
Silver	107-1	763	663	637	688	9.71	cps
Silver	109-1	507	400	453	453	11.76	cps
Sodium	23-2	19866365	19576037	19365991	19602798	1.28	cps
Strontium	86-1	7968229	7953764	7931410	7951134	0.23	cps
Strontium	88-1	68285927	69151501	69096647	68844692	0.70	cps
Sulfur	34-1	2003244	1981225	1986882	1990451	0.57	cps
Terbium	159-1	21180661	21307807	21248115	21245527	0.30	cps
Terbium	159-2	7572460	7480834	7544284	7532526	0.62	cps
Thallium	203-1	320	317	380	339	10.52	cps
Thallium	205-1	727	890	903	840	11.71	cps
Tin	118-1	12523	13243	12893	12886	2.80	cps
Titanium	47-1	2257	2170	2290	2239	2.77	cps
Uranium	238-1	80	87	83	83	4.00	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01	Instrumnet Name :	P8
Client Sample ID :	ME2964	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:28:48	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9250	9323	9160	9244	0.89	cps
Ytterbium	172-1	127	143	107	126	14.62	cps
Ytterbium	172-2	40	47	57	48	17.56	cps
Ytterbium	176-1	2020	2110	1947	2026	4.04	cps
Ytterbium	176-2	337	310	307	318	5.17	cps
Yttrium	89-1	30076296	29912715	29641355	29876788	0.74	cps
Yttrium	89-2	2293720	2283534	2275131	2284128	0.41	cps
Zinc	66-2	1510	1703	1733	1649	7.35	cps
Zirconium	90-1	1980	1907	1840	1909	3.67	cps
Zirconium	91-1	347	413	347	369	10.43	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	51009	50885	50250	50715	0.80	cps
Antimony	121-1	1537	1693	1743	1658	6.50	cps
Arsenic	75-2	953	980	937	957	2.28	cps
Barium	135-1	177119	179649	179868	178879	0.85	cps
Barium	137-1	308702	311807	317771	312760	1.47	cps
Beryllium	9-1	410	459	424	431	5.83	cps
Bismuth	209-1	12219642	12305131	12430176	12318316	0.86	cps
Bismuth	209-2	5448425	5441545	5384461	5424810	0.65	cps
Bromine	81-1	272783	295491	305941	291405	5.82	cps
Cadmium	108-1	237	230	193	220	10.60	cps
Cadmium	106-1	9176	8639	8963	8926	3.03	cps
Cadmium	111-1	6541	6157	6412	6370	3.07	cps
Calcium	43-1	8607404	8826610	8637842	8690618	1.37	cps
Calcium	44-1	139269491	141601421	141854731	140908548	1.01	cps
Carbon	12-1	19392921	21006261	21742083	20713755	5.80	cps
Carbon	12-2	141530	142628	143634	142597	0.74	cps
Chlorine	35-1	3121992	3351220	3429743	3300985	4.84	cps
Chlorine	35-2	14918	14444	14938	14767	1.89	cps
Chromium	52-2	2094	1863	1777	1911	8.56	cps
Cobalt	59-2	1167	1073	963	1068	9.53	cps
Copper	63-2	8326	8319	8316	8320	0.06	cps
Dysprosium	156-1	63	37	47	49	27.55	cps
Dysprosium	156-2	7	13	10	10	33.30	cps
Erbium	164-1	90	107	103	100	8.82	cps
Erbium	164-2	47	63	33	48	31.46	cps
Gadolinium	160-1	130	127	160	139	13.22	cps
Gadolinium	160-2	43	40	20	34	36.64	cps
Holmium	165-1	20171637	20587298	20547388	20435441	1.12	cps
Holmium	165-2	7719839	7629993	7632893	7660909	0.67	cps
Indium	115-1	16316606	16609398	16488930	16471645	0.89	cps
Indium	115-2	1741327	1772621	1728042	1747330	1.31	cps
Iron	54-2	4964	5251	5504	5240	5.16	cps
Iron	56-2	96578	95779	95141	95832	0.75	cps
Iron	57-2	2560	2607	2550	2572	1.18	cps
Krypton	83-1	310	283	293	296	4.56	cps
Lead	206-1	4504	4294	4327	4375	2.58	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3427	3427	3651	3502	3.68	cps
Lead	208-1	16584	16541	16684	16603	0.44	cps
Lithium	6-1	9734163	9742583	9818559	9765101	0.48	cps
Magnesium	24-2	9346	9390	9353	9363	0.25	cps
Manganese	55-2	4844	4878	5044	4922	2.18	cps
Molybdenum	94-1	229785	234992	231566	232114	1.14	cps
Molybdenum	95-1	397118	400331	405382	400944	1.04	cps
Molybdenum	96-1	426458	430221	432384	429688	0.70	cps
Molybdenum	97-1	248042	252665	249521	250076	0.94	cps
Molybdenum	98-1	638459	646263	643423	642715	0.61	cps
Neodymium	150-1	87	83	57	76	21.76	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	372398	369297	376229	372641	0.93	cps
Phosphorus	31-2	1830	1737	1760	1776	2.74	cps
Potassium	39-2	11085011	10942522	11096639	11041391	0.78	cps
Rhodium	103-1	15156085	15604117	15400764	15386989	1.46	cps
Rhodium	103-2	6411505	6326984	6272323	6336937	1.11	cps
Scandium	45-1	12057838	12344412	12182663	12194971	1.18	cps
Scandium	45-2	247130	244482	246824	246145	0.59	cps
Selenium	82-1	403	410	400	404	1.26	cps
Selenium	77-2	3	7	10	7	50.03	cps
Selenium	78-2	33	17	43	31	43.29	cps
Silicon	28-1	34307882	35085873	35190027	34861261	1.38	cps
Silver	107-1	470	407	443	440	7.23	cps
Silver	109-1	293	273	363	310	15.24	cps
Sodium	23-2	18827695	19211877	19429419	19156330	1.59	cps
Strontium	86-1	7928918	8025625	7855429	7936658	1.08	cps
Strontium	88-1	68915072	69767942	69048386	69243800	0.66	cps
Sulfur	34-1	1958058	1947880	1948263	1951400	0.30	cps
Terbium	159-1	21046173	21301841	20908040	21085351	0.95	cps
Terbium	159-2	7308404	7324444	7350923	7327923	0.29	cps
Thallium	203-1	263	297	273	278	6.16	cps
Thallium	205-1	820	790	737	782	5.40	cps
Tin	118-1	13000	13093	12623	12905	1.93	cps
Titanium	47-1	2290	2190	2190	2224	2.60	cps
Uranium	238-1	90	87	87	88	2.19	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-02	Instrumnet Name :	P8
Client Sample ID :	ME2964D	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:32:00	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8966	8993	9223	9061	1.56	cps
Ytterbium	172-1	130	150	77	119	31.88	cps
Ytterbium	172-2	77	53	67	66	17.86	cps
Ytterbium	176-1	2054	1997	2290	2114	7.36	cps
Ytterbium	176-2	287	310	297	298	3.93	cps
Yttrium	89-1	29558775	30467622	29157221	29727873	2.26	cps
Yttrium	89-2	2219143	2244246	2290573	2251321	1.61	cps
Zinc	66-2	1497	1583	1490	1523	3.42	cps
Zirconium	90-1	1720	1633	1433	1596	9.21	cps
Zirconium	91-1	260	333	323	306	13.01	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10441	10457	10527	10475	0.44	cps
Antimony	121-1	410	397	450	419	6.63	cps
Arsenic	75-2	183	180	167	177	4.99	cps
Barium	135-1	35841	37505	36048	36465	2.49	cps
Barium	137-1	64419	63913	63384	63906	0.81	cps
Beryllium	9-1	451	426	436	438	2.87	cps
Bismuth	209-1	12017786	12839851	13727509	12861715	6.65	cps
Bismuth	209-2	5629237	5656971	5667398	5651202	0.35	cps
Bromine	81-1	81743	82008	82783	82178	0.66	cps
Cadmium	108-1	43	53	43	47	12.37	cps
Cadmium	106-1	8626	8983	9880	9163	7.05	cps
Cadmium	111-1	6065	6324	6969	6453	7.22	cps
Calcium	43-1	1812339	1825508	1774957	1804268	1.45	cps
Calcium	44-1	29191487	29433005	28183229	28935907	2.29	cps
Carbon	12-1	10472095	10650680	10629338	10584038	0.92	cps
Carbon	12-2	67424	67886	67169	67493	0.54	cps
Chlorine	35-1	1399312	1419962	1368034	1395769	1.87	cps
Chlorine	35-2	5421	5728	5321	5490	3.86	cps
Chromium	52-2	1540	1583	1660	1595	3.81	cps
Cobalt	59-2	330	277	283	297	9.80	cps
Copper	63-2	6548	6405	6715	6556	2.37	cps
Dysprosium	156-1	10	23	13	16	44.60	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	143	127	113	128	11.77	cps
Erbium	164-2	77	57	40	58	31.78	cps
Gadolinium	160-1	137	113	143	131	12.01	cps
Gadolinium	160-2	20	43	43	36	37.89	cps
Holmium	165-1	19369681	21164397	21947545	20827208	6.35	cps
Holmium	165-2	7605814	7733471	7715609	7684965	0.90	cps
Indium	115-1	15846492	17209775	17775105	16943791	5.85	cps
Indium	115-2	1782274	1766323	1779922	1776173	0.48	cps
Iron	54-2	1660	1830	1680	1723	5.39	cps
Iron	56-2	29394	29334	29019	29249	0.69	cps
Iron	57-2	780	810	780	790	2.19	cps
Krypton	83-1	300	253	297	283	9.19	cps
Lead	206-1	2097	2187	2174	2152	2.26	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1773	1873	1787	1811	3.00	cps
Lead	208-1	8321	8424	8455	8400	0.83	cps
Lithium	6-1	9489644	9868483	10550758	9969629	5.39	cps
Magnesium	24-2	3320	3374	3157	3284	3.44	cps
Manganese	55-2	1157	1090	1130	1126	2.98	cps
Molybdenum	94-1	47691	47384	48033	47703	0.68	cps
Molybdenum	95-1	80056	81722	80840	80872	1.03	cps
Molybdenum	96-1	87496	87809	88288	87864	0.45	cps
Molybdenum	97-1	50445	51639	51094	51059	1.17	cps
Molybdenum	98-1	130202	131197	130338	130579	0.41	cps
Neodymium	150-1	27	27	23	26	7.55	cps
Neodymium	150-2	13	0	10	8	89.21	cps
Nickel	60-2	78817	78036	78016	78289	0.58	cps
Phosphorus	31-2	483	330	440	418	18.92	cps
Potassium	39-2	2302421	2264655	2273920	2280332	0.86	cps
Rhodium	103-1	15054313	15907816	17407594	16123241	7.39	cps
Rhodium	103-2	6449399	6646883	6532677	6542986	1.52	cps
Scandium	45-1	11687209	12393828	12918601	12333213	5.01	cps
Scandium	45-2	242845	250183	246838	246622	1.49	cps
Selenium	82-1	97	90	107	98	8.58	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	10	27	0	12	110.23	cps
Silicon	28-1	7596859	7724092	7545350	7622101	1.21	cps
Silver	107-1	337	353	320	337	4.95	cps
Silver	109-1	163	187	187	179	7.53	cps
Sodium	23-2	3954402	4053029	3998483	4001971	1.23	cps
Strontium	86-1	1647764	1633223	1627864	1636284	0.63	cps
Strontium	88-1	14115455	14217717	14094712	14142628	0.47	cps
Sulfur	34-1	1246788	1246164	1235200	1242717	0.52	cps
Terbium	159-1	20354999	21232266	22741196	21442821	5.63	cps
Terbium	159-2	7380029	7404774	7451490	7412098	0.49	cps
Thallium	203-1	220	253	193	222	13.53	cps
Thallium	205-1	600	507	537	548	8.70	cps
Tin	118-1	4461	4327	4501	4430	2.05	cps
Titanium	47-1	613	780	700	698	11.95	cps
Uranium	238-1	37	43	37	39	9.89	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2964L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 15:35:18	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1973	1823	1787	1861	5.31	cps
Ytterbium	172-1	80	133	117	110	24.81	cps
Ytterbium	172-2	57	67	53	59	11.79	cps
Ytterbium	176-1	2027	1930	2280	2079	8.70	cps
Ytterbium	176-2	300	280	327	302	7.75	cps
Yttrium	89-1	28559801	30089620	33069555	30572992	7.50	cps
Yttrium	89-2	2227234	2279420	2267584	2258079	1.21	cps
Zinc	66-2	677	650	633	653	3.35	cps
Zirconium	90-1	983	1060	1050	1031	4.04	cps
Zirconium	91-1	217	233	257	236	8.53	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	206486	204848	203280	204871	0.78	cps
Antimony	121-1	2143208	2172044	2166188	2160480	0.71	cps
Arsenic	75-2	15872	16627	16393	16297	2.37	cps
Barium	135-1	8774332	8974217	9089665	8946071	1.78	cps
Barium	137-1	15146524	15339249	15389074	15291615	0.84	cps
Beryllium	9-1	341701	347289	346898	345296	0.90	cps
Bismuth	209-1	10629415	12101710	12220287	11650471	7.61	cps
Bismuth	209-2	5348113	5279124	5354874	5327370	0.79	cps
Bromine	81-1	252617	290059	303540	282072	9.35	cps
Cadmium	108-1	14224	14554	14534	14438	1.28	cps
Cadmium	106-1	27267	28259	28620	28049	2.50	cps
Cadmium	111-1	220266	222304	222526	221698	0.56	cps
Calcium	43-1	8205409	8269119	8173855	8216128	0.59	cps
Calcium	44-1	133181541	133698818	131877075	132919145	0.71	cps
Carbon	12-1	19495893	21439872	22954203	21296656	8.14	cps
Carbon	12-2	154011	154462	158828	155767	1.71	cps
Chlorine	35-1	34185178	37360271	38218883	36588111	5.81	cps
Chlorine	35-2	166498	168641	168447	167862	0.71	cps
Chromium	52-2	884876	881649	878031	881519	0.39	cps
Cobalt	59-2	4279330	4285210	4286268	4283603	0.09	cps
Copper	63-2	1706886	1634674	1693696	1678418	2.29	cps
Dysprosium	156-1	110	103	137	117	15.12	cps
Dysprosium	156-2	20	3	20	14	66.64	cps
Erbium	164-1	110	133	130	124	10.14	cps
Erbium	164-2	57	40	30	42	31.91	cps
Gadolinium	160-1	93	123	177	131	32.19	cps
Gadolinium	160-2	40	40	50	43	13.32	cps
Holmium	165-1	17743254	20064471	19857448	19221724	6.68	cps
Holmium	165-2	7420821	7605075	7558730	7528209	1.27	cps
Indium	115-1	14248805	16515539	16413857	15726067	8.14	cps
Indium	115-2	1744416	1740245	1702200	1728954	1.35	cps
Iron	54-2	211087	211306	207712	210035	0.96	cps
Iron	56-2	3508788	3420109	3470773	3466556	1.28	cps
Iron	57-2	84391	83368	83995	83918	0.61	cps
Krypton	83-1	237	287	280	268	10.14	cps
Lead	206-1	270798	276798	277936	275177	1.39	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	231553	237201	240842	236532	1.98	cps
Lead	208-1	1077132	1096402	1105734	1093090	1.33	cps
Lithium	6-1	8440957	9546862	9286359	9091393	6.36	cps
Magnesium	24-2	9110	9150	8943	9067	1.21	cps
Manganese	55-2	874047	868127	861665	867946	0.71	cps
Molybdenum	94-1	216112	220778	223193	220028	1.64	cps
Molybdenum	95-1	375484	375792	380206	377160	0.70	cps
Molybdenum	96-1	400410	403698	408998	404369	1.07	cps
Molybdenum	97-1	236179	238160	238227	237522	0.49	cps
Molybdenum	98-1	603625	609898	610809	608110	0.64	cps
Neodymium	150-1	663	557	603	608	8.80	cps
Neodymium	150-2	30	33	27	30	11.10	cps
Nickel	60-2	1566855	1473530	1563661	1534682	3.45	cps
Phosphorus	31-2	1943	1887	2007	1946	3.09	cps
Potassium	39-2	10390345	10355865	10523440	10423217	0.85	cps
Rhodium	103-1	13199707	14749572	14892827	14280702	6.57	cps
Rhodium	103-2	6205777	6256010	6226150	6229312	0.41	cps
Scandium	45-1	10316228	11724120	11988744	11343031	7.93	cps
Scandium	45-2	240003	242314	239415	240577	0.64	cps
Selenium	82-1	5385	5388	5595	5456	2.21	cps
Selenium	77-2	150	90	93	111	30.35	cps
Selenium	78-2	313	363	343	340	7.40	cps
Silicon	28-1	33002089	33290110	33378104	33223434	0.59	cps
Silver	107-1	1051542	1073142	1082283	1068989	1.48	cps
Silver	109-1	995826	1025448	1031536	1017603	1.88	cps
Sodium	23-2	18407238	18264241	18173316	18281598	0.65	cps
Strontium	86-1	7627821	7541444	7569162	7579476	0.58	cps
Strontium	88-1	65252487	65023049	65266169	65180568	0.21	cps
Sulfur	34-1	1825931	1804450	1819519	1816633	0.61	cps
Terbium	159-1	18059157	20621819	21072883	19917953	8.16	cps
Terbium	159-2	7385558	7241760	7169149	7265489	1.52	cps
Thallium	203-1	821189	831817	846745	833250	1.54	cps
Thallium	205-1	2056671	2123112	2085118	2088300	1.60	cps
Tin	118-1	12409	12312	12609	12444	1.22	cps
Titanium	47-1	2537	2394	2324	2418	4.50	cps
Uranium	238-1	83	77	103	88	15.81	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-03	Instrumnet Name :	P8
Client Sample ID :	ME2964S	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:38:29	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1820966	1757141	1790555	1789554	1.78	cps
Ytterbium	172-1	117	130	147	131	11.46	cps
Ytterbium	172-2	40	43	70	51	32.17	cps
Ytterbium	176-1	1863	1967	2047	1959	4.69	cps
Ytterbium	176-2	273	393	397	354	19.82	cps
Yttrium	89-1	25882406	28836703	29224585	27981232	6.53	cps
Yttrium	89-2	2182404	2233132	2219327	2211621	1.19	cps
Zinc	66-2	333062	332541	331252	332285	0.28	cps
Zirconium	90-1	1877	2004	1967	1949	3.34	cps
Zirconium	91-1	583	527	523	544	6.19	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	867	933	970	923	5.67	cps
Antimony	121-1	3160	3117	2927	3068	4.05	cps
Arsenic	75-2	210	220	193	208	6.48	cps
Barium	135-1	111323	111696	111215	111411	0.23	cps
Barium	137-1	193543	194096	194628	194089	0.28	cps
Beryllium	9-1	507	456	512	492	6.33	cps
Bismuth	209-1	10029825	11612196	11695319	11112447	8.45	cps
Bismuth	209-2	5290793	5116012	5113035	5173280	1.97	cps
Bromine	81-1	146021	165096	174133	161750	8.87	cps
Cadmium	108-1	47	37	40	41	12.39	cps
Cadmium	106-1	7365	8229	8062	7886	5.81	cps
Cadmium	111-1	5183	5801	5656	5547	5.83	cps
Calcium	43-1	19613453	19910811	20065216	19863160	1.16	cps
Calcium	44-1	318761255	322633889	319875189	320423444	0.62	cps
Carbon	12-1	10452958	10973764	11326268	10917663	4.02	cps
Carbon	12-2	76749	76853	77804	77135	0.75	cps
Chlorine	35-1	5160127	5223725	5156623	5180158	0.73	cps
Chlorine	35-2	20785	20925	20508	20739	1.02	cps
Chromium	52-2	8016	7705	8226	7982	3.28	cps
Cobalt	59-2	683	713	630	676	6.25	cps
Copper	63-2	4768	4768	4871	4802	1.24	cps
Dysprosium	156-1	163	217	130	170	25.72	cps
Dysprosium	156-2	80	40	43	54	40.77	cps
Erbium	164-1	217	287	177	227	24.56	cps
Erbium	164-2	103	90	73	89	16.91	cps
Gadolinium	160-1	207	273	200	227	17.89	cps
Gadolinium	160-2	77	60	67	68	12.38	cps
Holmium	165-1	17165292	20252962	20104986	19174413	9.08	cps
Holmium	165-2	7588783	7457746	7479007	7508512	0.94	cps
Indium	115-1	13716789	16148253	16049263	15304769	8.99	cps
Indium	115-2	1709036	1703102	1662071	1691403	1.51	cps
Iron	54-2	60307	61632	61984	61307	1.44	cps
Iron	56-2	1123197	1128637	1126042	1125958	0.24	cps
Iron	57-2	28656	28579	28719	28651	0.25	cps
Krypton	83-1	263	340	290	298	13.07	cps
Lead	206-1	18036	18196	18366	18200	0.91	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15176	15312	15022	15170	0.96	cps
Lead	208-1	69974	70832	70040	70282	0.68	cps
Lithium	6-1	8162926	9330983	9259190	8917700	7.34	cps
Magnesium	24-2	26578447	26226355	26741717	26515507	0.99	cps
Manganese	55-2	34575	35153	33883	34537	1.84	cps
Molybdenum	94-1	24976	24725	25560	25087	1.71	cps
Molybdenum	95-1	41502	41422	41388	41437	0.14	cps
Molybdenum	96-1	44615	45424	45431	45156	1.04	cps
Molybdenum	97-1	25884	25824	26175	25961	0.72	cps
Molybdenum	98-1	66006	68250	67272	67176	1.67	cps
Neodymium	150-1	263	243	243	250	4.62	cps
Neodymium	150-2	57	57	40	51	18.83	cps
Nickel	60-2	1957	1650	1893	1833	8.83	cps
Phosphorus	31-2	160	153	130	148	10.66	cps
Potassium	39-2	573526	581295	580320	578380	0.73	cps
Rhodium	103-1	12431153	14412557	14598026	13813912	8.69	cps
Rhodium	103-2	6074454	6089366	5997231	6053684	0.82	cps
Scandium	45-1	10022299	11694226	11930234	11215587	9.27	cps
Scandium	45-2	239084	236662	238903	238216	0.57	cps
Selenium	82-1	140	23	127	97	66.06	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	20	10	14	35.26	cps
Silicon	28-1	71572857	71361751	71041331	71325313	0.38	cps
Silver	107-1	1117	800	713	877	24.22	cps
Silver	109-1	823	680	590	698	16.87	cps
Sodium	23-2	12262323	12225616	12187861	12225267	0.30	cps
Strontium	86-1	59075876	59275779	59575077	59308911	0.42	cps
Strontium	88-1	502609433	512354059	512838406	509267299	1.13	cps
Sulfur	34-1	29190549	29553865	29728945	29491119	0.93	cps
Terbium	159-1	17807660	20201653	20553496	19520936	7.65	cps
Terbium	159-2	7297728	7137780	7127378	7187628	1.33	cps
Thallium	203-1	380	363	380	374	2.57	cps
Thallium	205-1	867	820	767	818	6.12	cps
Tin	118-1	8676	8956	8536	8723	2.45	cps
Titanium	47-1	2170	2210	2260	2214	2.04	cps
Uranium	238-1	1728164	1744616	1775057	1749279	1.36	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-04	Instrumnet Name :	P8
Client Sample ID :	ME2981	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:41:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	293	330	253	292	13.12	cps
Ytterbium	172-1	183	177	200	187	6.44	cps
Ytterbium	172-2	60	90	67	72	21.81	cps
Ytterbium	176-1	1783	1937	1827	1849	4.28	cps
Ytterbium	176-2	293	287	347	309	10.65	cps
Yttrium	89-1	24805636	28674485	28642017	27374046	8.13	cps
Yttrium	89-2	2204045	2187255	2161138	2184146	0.99	cps
Zinc	66-2	760	830	847	812	5.66	cps
Zirconium	90-1	2610	2884	2940	2811	6.28	cps
Zirconium	91-1	583	660	647	630	6.50	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1067	1007	1007	1027	3.37	cps
Antimony	121-1	957	777	980	904	12.30	cps
Arsenic	75-2	183	157	177	172	8.06	cps
Barium	135-1	197470	201298	203353	200707	1.49	cps
Barium	137-1	344782	350593	353759	349711	1.30	cps
Beryllium	9-1	460	454	467	460	1.50	cps
Bismuth	209-1	11994156	11892915	11733763	11873611	1.11	cps
Bismuth	209-2	5340426	5153345	5299545	5264439	1.87	cps
Bromine	81-1	106316	117907	122956	115726	7.37	cps
Cadmium	108-1	30	30	47	36	27.07	cps
Cadmium	106-1	9036	8376	8179	8530	5.26	cps
Cadmium	111-1	6328	5875	5723	5975	5.27	cps
Calcium	43-1	23234787	23111305	23631488	23325860	1.17	cps
Calcium	44-1	371197808	373848968	378829861	374625546	1.03	cps
Carbon	12-1	9604154	10618138	11095872	10439388	7.30	cps
Carbon	12-2	75533	76946	77188	76556	1.17	cps
Chlorine	35-1	3621422	3771384	3950182	3780996	4.35	cps
Chlorine	35-2	16042	15862	16466	16124	1.92	cps
Chromium	52-2	3524	3614	3764	3634	3.34	cps
Cobalt	59-2	1357	1367	1327	1350	1.54	cps
Copper	63-2	9530	9563	9607	9567	0.40	cps
Dysprosium	156-1	227	223	183	211	11.42	cps
Dysprosium	156-2	67	83	57	69	19.55	cps
Erbium	164-1	273	300	347	307	12.10	cps
Erbium	164-2	103	133	137	124	14.75	cps
Gadolinium	160-1	287	347	287	307	11.30	cps
Gadolinium	160-2	70	117	100	96	24.75	cps
Holmium	165-1	20565699	20078539	20297095	20313778	1.20	cps
Holmium	165-2	7569314	7551157	7731532	7617334	1.30	cps
Indium	115-1	16591881	16003133	16125038	16240017	1.91	cps
Indium	115-2	1733233	1725935	1740712	1733294	0.43	cps
Iron	54-2	48709	48157	48325	48397	0.58	cps
Iron	56-2	886438	886923	881352	884904	0.35	cps
Iron	57-2	22768	22658	22528	22651	0.53	cps
Krypton	83-1	310	320	323	318	2.18	cps
Lead	206-1	2114	2310	2544	2322	9.27	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2024	1954	1980	1986	1.78	cps
Lead	208-1	8981	9278	9565	9275	3.15	cps
Lithium	6-1	9552308	9410674	9481924	9481635	0.75	cps
Magnesium	24-2	27036670	26738758	27122050	26965826	0.75	cps
Manganese	55-2	556218	556008	547902	553376	0.86	cps
Molybdenum	94-1	3164	3510	3274	3316	5.34	cps
Molybdenum	95-1	2884	2997	3070	2984	3.15	cps
Molybdenum	96-1	3304	3274	3284	3287	0.46	cps
Molybdenum	97-1	1850	1783	1847	1827	2.06	cps
Molybdenum	98-1	4334	4674	4861	4623	5.78	cps
Neodymium	150-1	220	273	233	242	11.46	cps
Neodymium	150-2	53	43	60	52	16.07	cps
Nickel	60-2	1567	1657	1777	1667	6.32	cps
Phosphorus	31-2	390	367	357	371	4.61	cps
Potassium	39-2	613020	611003	608986	611003	0.33	cps
Rhodium	103-1	15411488	14966114	14858260	15078621	1.94	cps
Rhodium	103-2	6169616	6054413	6194313	6139447	1.22	cps
Scandium	45-1	11947805	11842250	11834265	11874773	0.53	cps
Scandium	45-2	241987	240019	243636	241881	0.75	cps
Selenium	82-1	70	93	50	71	30.50	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	17	23	7	16	53.90	cps
Silicon	28-1	80865965	83245639	82916120	82342575	1.57	cps
Silver	107-1	580	577	463	540	12.30	cps
Silver	109-1	253	627	280	387	53.89	cps
Sodium	23-2	12549993	12438114	12336639	12441582	0.86	cps
Strontium	86-1	76961397	78891914	80628414	78827242	2.33	cps
Strontium	88-1	668011417	686834376	687507670	680784488	1.63	cps
Sulfur	34-1	32725895	32987114	33707394	33140134	1.53	cps
Terbium	159-1	20681710	20690758	20552770	20641746	0.37	cps
Terbium	159-2	7336743	7182434	7218675	7245951	1.11	cps
Thallium	203-1	333	290	287	303	8.58	cps
Thallium	205-1	637	640	683	653	3.99	cps
Tin	118-1	6795	6895	6962	6884	1.22	cps
Titanium	47-1	2560	2927	2737	2741	6.69	cps
Uranium	238-1	8523	8640	8613	8592	0.71	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-05	Instrumnet Name :	P8
Client Sample ID :	ME2982	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:44:47	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	433	463	443	447	3.42	cps
Ytterbium	172-1	183	223	203	203	9.84	cps
Ytterbium	172-2	83	103	103	97	11.95	cps
Ytterbium	176-1	2037	2027	2074	2046	1.20	cps
Ytterbium	176-2	333	350	370	351	5.23	cps
Yttrium	89-1	30038089	29207351	28646688	29297376	2.39	cps
Yttrium	89-2	2237284	2213916	2278704	2243302	1.46	cps
Zinc	66-2	757	853	837	816	6.34	cps
Zirconium	90-1	4341	4591	4244	4392	4.07	cps
Zirconium	91-1	1023	967	1100	1030	6.50	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	663	533	627	608	11.03	cps
Antimony	121-1	303	347	337	329	6.90	cps
Arsenic	75-2	33	27	20	27	24.99	cps
Barium	135-1	44509	46112	46322	45648	2.17	cps
Barium	137-1	79750	79344	80430	79841	0.69	cps
Beryllium	9-1	482	512	522	506	4.12	cps
Bismuth	209-1	11293912	11686915	11947854	11642894	2.83	cps
Bismuth	209-2	4789926	4858719	5015425	4888023	2.36	cps
Bromine	81-1	213177	267635	298678	259830	16.66	cps
Cadmium	108-1	43	40	50	44	11.46	cps
Cadmium	106-1	8566	8319	8733	8539	2.44	cps
Cadmium	111-1	6006	5826	6121	5984	2.49	cps
Calcium	43-1	27411239	27523835	27431215	27455430	0.22	cps
Calcium	44-1	438306407	445778767	440349260	441478145	0.87	cps
Carbon	12-1	9966107	10856662	11249835	10690868	6.15	cps
Carbon	12-2	76330	76038	77325	76564	0.88	cps
Chlorine	35-1	11920055	13439485	13919716	13093086	7.97	cps
Chlorine	35-2	60385	60205	61148	60579	0.83	cps
Chromium	52-2	3124	3447	3414	3328	5.34	cps
Cobalt	59-2	820	833	777	810	3.66	cps
Copper	63-2	5665	5554	5898	5706	3.07	cps
Dysprosium	156-1	217	233	203	218	6.90	cps
Dysprosium	156-2	70	77	83	77	8.69	cps
Erbium	164-1	327	303	393	341	13.69	cps
Erbium	164-2	143	97	110	117	20.60	cps
Gadolinium	160-1	267	363	337	322	15.49	cps
Gadolinium	160-2	97	110	157	121	26.01	cps
Holmium	165-1	19445221	19871773	20628346	19981780	3.00	cps
Holmium	165-2	7016588	7130854	7089292	7078911	0.82	cps
Indium	115-1	15665734	16052878	16462520	16060377	2.48	cps
Indium	115-2	1497915	1572114	1625267	1565099	4.09	cps
Iron	54-2	36934	36346	36583	36621	0.81	cps
Iron	56-2	669796	668919	672172	670296	0.25	cps
Iron	57-2	17568	17571	18412	17850	2.73	cps
Krypton	83-1	280	360	283	308	14.70	cps
Lead	206-1	3104	3654	3517	3425	8.36	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2717	2744	2810	2757	1.74	cps
Lead	208-1	12966	13443	13493	13301	2.19	cps
Lithium	6-1	9009768	9205802	9856923	9357498	4.74	cps
Magnesium	24-2	33522159	33875573	32860519	33419417	1.54	cps
Manganese	55-2	60370	60561	61083	60671	0.61	cps
Molybdenum	94-1	2727	3184	2760	2890	8.82	cps
Molybdenum	95-1	2490	2660	2517	2556	3.58	cps
Molybdenum	96-1	2484	2860	2644	2663	7.10	cps
Molybdenum	97-1	1403	1473	1443	1440	2.44	cps
Molybdenum	98-1	3914	3714	3604	3744	4.20	cps
Neodymium	150-1	207	180	187	191	7.26	cps
Neodymium	150-2	40	47	97	61	50.68	cps
Nickel	60-2	1747	1750	1657	1718	3.08	cps
Phosphorus	31-2	140	123	147	137	8.79	cps
Potassium	39-2	1166762	1166861	1163899	1165841	0.14	cps
Rhodium	103-1	14195927	14611877	14774789	14527531	2.05	cps
Rhodium	103-2	5647157	5687414	5766387	5700319	1.06	cps
Scandium	45-1	11430823	11751614	12317044	11833161	3.79	cps
Scandium	45-2	224574	225738	231809	227374	1.71	cps
Selenium	82-1	207	77	187	157	44.68	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	7	33	21	63.80	cps
Silicon	28-1	103509678	105909532	104995498	104804903	1.16	cps
Silver	107-1	600	647	713	653	8.72	cps
Silver	109-1	277	360	400	346	18.21	cps
Sodium	23-2	41466455	41603630	41302385	41457490	0.36	cps
Strontium	86-1	74254294	74579014	74463981	74432429	0.22	cps
Strontium	88-1	630080897	646211404	647045657	641112653	1.49	cps
Sulfur	34-1	37889107	38553770	38242534	38228471	0.87	cps
Terbium	159-1	19374178	20374854	21248278	20332437	4.61	cps
Terbium	159-2	6650780	6705489	6913048	6756439	2.05	cps
Thallium	203-1	267	333	253	284	15.07	cps
Thallium	205-1	630	760	747	712	10.04	cps
Tin	118-1	9110	9280	9216	9202	0.93	cps
Titanium	47-1	2274	2300	2264	2279	0.83	cps
Uranium	238-1	4217	4431	4237	4295	2.74	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-06	Instrumnet Name :	P8
Client Sample ID :	ME2983	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:48:02	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	460	407	443	437	6.25	cps
Ytterbium	172-1	163	230	160	184	21.41	cps
Ytterbium	172-2	73	70	60	68	10.24	cps
Ytterbium	176-1	1867	1837	1970	1891	3.70	cps
Ytterbium	176-2	250	293	333	292	14.26	cps
Yttrium	89-1	27698289	29222907	30029094	28983430	4.08	cps
Yttrium	89-2	2069226	2061569	2133807	2088201	1.90	cps
Zinc	66-2	1567	1497	1430	1498	4.56	cps
Zirconium	90-1	3847	3821	3904	3857	1.10	cps
Zirconium	91-1	827	810	813	817	1.08	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	162900	162678	163619	163065	0.30	cps
Antimony	121-1	16777	16787	17064	16876	0.97	cps
Arsenic	75-2	877	783	797	819	6.16	cps
Barium	135-1	411459	416729	413997	414062	0.64	cps
Barium	137-1	717379	720223	732682	723428	1.13	cps
Beryllium	9-1	1182	1165	1246	1198	3.57	cps
Bismuth	209-1	11600059	11545275	11864751	11670028	1.46	cps
Bismuth	209-2	5127799	5128529	5188707	5148345	0.68	cps
Bromine	81-1	147696	158750	161632	156026	4.72	cps
Cadmium	108-1	143	133	143	140	4.12	cps
Cadmium	106-1	8556	8643	8770	8656	1.24	cps
Cadmium	111-1	6212	6247	6348	6269	1.13	cps
Calcium	43-1	18808233	18571093	19025776	18801701	1.21	cps
Calcium	44-1	296957189	299695156	299751742	298801362	0.53	cps
Carbon	12-1	10374742	11280362	11645751	11100285	5.89	cps
Carbon	12-2	79456	79631	80006	79698	0.35	cps
Chlorine	35-1	4132079	4201981	4292473	4208844	1.91	cps
Chlorine	35-2	17244	17007	17310	17187	0.93	cps
Chromium	52-2	19166	19110	19624	19300	1.46	cps
Cobalt	59-2	44329	43382	43734	43815	1.09	cps
Copper	63-2	39137	39946	39889	39657	1.14	cps
Dysprosium	156-1	8073	8246	8183	8167	1.07	cps
Dysprosium	156-2	2614	2657	2817	2696	3.97	cps
Erbium	164-1	6645	6959	6722	6775	2.41	cps
Erbium	164-2	2310	2397	2350	2352	1.84	cps
Gadolinium	160-1	7149	7065	7482	7232	3.05	cps
Gadolinium	160-2	3084	3117	3187	3129	1.69	cps
Holmium	165-1	20060558	20007866	20124289	20064238	0.29	cps
Holmium	165-2	7294641	7342113	7493710	7376822	1.41	cps
Indium	115-1	16123857	15834198	15963217	15973757	0.91	cps
Indium	115-2	1664967	1665562	1681050	1670526	0.55	cps
Iron	54-2	517670	525249	523308	522076	0.75	cps
Iron	56-2	9851186	9830410	9857591	9846396	0.14	cps
Iron	57-2	240418	241913	239875	240735	0.44	cps
Krypton	83-1	297	300	310	302	2.30	cps
Lead	206-1	54852	55629	55284	55255	0.70	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	43924	44275	45128	44443	1.39	cps
Lead	208-1	206983	210306	212573	209954	1.34	cps
Lithium	6-1	9242757	9302312	9564869	9369980	1.83	cps
Magnesium	24-2	26518812	26242109	26023438	26261453	0.95	cps
Manganese	55-2	1515179	1502710	1466191	1494693	1.70	cps
Molybdenum	94-1	53218	53552	53998	53589	0.73	cps
Molybdenum	95-1	69586	70283	70307	70059	0.58	cps
Molybdenum	96-1	74994	75554	76666	75738	1.12	cps
Molybdenum	97-1	42013	43438	42959	42804	1.69	cps
Molybdenum	98-1	109058	111876	110569	110501	1.28	cps
Neodymium	150-1	11068	10995	11225	11096	1.06	cps
Neodymium	150-2	2860	2854	2960	2891	2.07	cps
Nickel	60-2	19574	20054	19821	19816	1.21	cps
Phosphorus	31-2	2200	2187	2294	2227	2.61	cps
Potassium	39-2	1118588	1115454	1111726	1115256	0.31	cps
Rhodium	103-1	14541561	14637372	14706020	14628318	0.56	cps
Rhodium	103-2	5817110	6027371	6089103	5977861	2.39	cps
Scandium	45-1	11924452	11564532	12096110	11861698	2.29	cps
Scandium	45-2	232945	235493	237778	235406	1.03	cps
Selenium	82-1	183	197	157	179	11.39	cps
Selenium	77-2	27	10	7	14	74.18	cps
Selenium	78-2	17	20	17	18	10.81	cps
Silicon	28-1	135693371	138576218	138386441	137552010	1.17	cps
Silver	107-1	907	890	883	893	1.35	cps
Silver	109-1	580	553	623	586	6.03	cps
Sodium	23-2	14552790	14470977	14511014	14511594	0.28	cps
Strontium	86-1	101918708	103346135	104395335	103220060	1.20	cps
Strontium	88-1	878819294	891547533	920195266	896854031	2.36	cps
Sulfur	34-1	24713030	24661472	24847090	24740531	0.39	cps
Terbium	159-1	20433821	20488926	20856163	20592970	1.11	cps
Terbium	159-2	7128035	6895530	7212306	7078624	2.32	cps
Thallium	203-1	1473	1630	1513	1539	5.29	cps
Thallium	205-1	3347	3581	3507	3478	3.43	cps
Tin	118-1	49134	48051	50369	49185	2.36	cps
Titanium	47-1	128294	130641	130320	129752	0.98	cps
Uranium	238-1	163597	165845	165818	165087	0.78	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-07	Instrumnet Name :	P8
Client Sample ID :	ME2984	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:51:17	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	19033	19467	19276	19259	1.13	cps
Ytterbium	172-1	2117	1917	2090	2041	5.32	cps
Ytterbium	172-2	877	923	870	890	3.26	cps
Ytterbium	176-1	3074	3060	3200	3112	2.48	cps
Ytterbium	176-2	803	873	917	864	6.62	cps
Yttrium	89-1	28921436	29138058	29189293	29082929	0.49	cps
Yttrium	89-2	2170175	2166049	2197825	2178016	0.79	cps
Zinc	66-2	12909	13577	13176	13221	2.54	cps
Zirconium	90-1	36103	35722	35722	35849	0.61	cps
Zirconium	91-1	7622	7896	8293	7937	4.25	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	750	767	733	750	2.22	cps
Antimony	121-1	1333	1130	1227	1230	8.27	cps
Arsenic	75-2	123	120	123	122	1.58	cps
Barium	135-1	406146	391701	401846	399898	1.85	cps
Barium	137-1	713807	700655	690109	701524	1.69	cps
Beryllium	9-1	396	450	414	420	6.53	cps
Bismuth	209-1	11456152	11209147	11274699	11313333	1.13	cps
Bismuth	209-2	4991534	5066911	5317423	5125289	3.33	cps
Bromine	81-1	146969	160180	173823	160324	8.38	cps
Cadmium	108-1	33	30	43	36	19.51	cps
Cadmium	106-1	8433	8112	8029	8191	2.60	cps
Cadmium	111-1	5923	5704	5640	5756	2.58	cps
Calcium	43-1	25397550	24008200	24595582	24667111	2.83	cps
Calcium	44-1	404976514	387165901	397929981	396690799	2.26	cps
Carbon	12-1	9493032	10284251	10897562	10224948	6.89	cps
Carbon	12-2	70743	72973	72722	72146	1.69	cps
Chlorine	35-1	4123066	4160173	4415775	4233004	3.76	cps
Chlorine	35-2	18131	18749	18802	18561	2.01	cps
Chromium	52-2	6248	6502	6818	6523	4.38	cps
Cobalt	59-2	880	863	797	847	5.21	cps
Copper	63-2	9083	8883	8903	8956	1.23	cps
Dysprosium	156-1	33	27	50	37	32.78	cps
Dysprosium	156-2	20	7	10	12	56.76	cps
Erbium	164-1	107	123	120	117	7.56	cps
Erbium	164-2	27	33	30	30	11.10	cps
Gadolinium	160-1	117	160	130	136	16.37	cps
Gadolinium	160-2	33	33	37	34	5.60	cps
Holmium	165-1	19800788	19198252	19445882	19481641	1.55	cps
Holmium	165-2	7171417	7375344	7731144	7425968	3.81	cps
Indium	115-1	15698630	15130421	15838822	15555957	2.41	cps
Indium	115-2	1633773	1635471	1741183	1670142	3.68	cps
Iron	54-2	4848	5331	5138	5105	4.77	cps
Iron	56-2	89287	89056	87244	88529	1.26	cps
Iron	57-2	2870	3064	2774	2903	5.09	cps
Krypton	83-1	343	287	367	332	12.38	cps
Lead	206-1	2454	2500	2490	2481	0.99	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2227	2150	1974	2117	6.14	cps
Lead	208-1	9855	9551	9461	9623	2.14	cps
Lithium	6-1	9491293	8963569	9245846	9233569	2.86	cps
Magnesium	24-2	12500815	12710984	12485152	12565650	1.00	cps
Manganese	55-2	11251	11702	11235	11396	2.33	cps
Molybdenum	94-1	11068	10210	10224	10501	4.68	cps
Molybdenum	95-1	17338	17157	16954	17150	1.12	cps
Molybdenum	96-1	18412	18426	18476	18438	0.18	cps
Molybdenum	97-1	10758	10257	10637	10551	2.48	cps
Molybdenum	98-1	27828	26869	27437	27378	1.76	cps
Neodymium	150-1	63	87	73	74	15.73	cps
Neodymium	150-2	3	10	13	9	57.30	cps
Nickel	60-2	8439	8246	8466	8384	1.43	cps
Phosphorus	31-2	137	173	117	142	20.21	cps
Potassium	39-2	5713373	5820128	5546850	5693450	2.42	cps
Rhodium	103-1	14391216	13781419	14341615	14171417	2.39	cps
Rhodium	103-2	5874746	5941205	6153881	5989944	2.43	cps
Scandium	45-1	11830938	11396578	11603295	11610271	1.87	cps
Scandium	45-2	232615	234225	243153	236664	2.40	cps
Selenium	82-1	127	163	53	114	48.94	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	17	3	17	12	63.01	cps
Silicon	28-1	65176592	61882266	64007411	63688756	2.62	cps
Silver	107-1	540	513	520	524	2.65	cps
Silver	109-1	227	253	237	239	5.64	cps
Sodium	23-2	21677822	21880771	21446460	21668351	1.00	cps
Strontium	86-1	86088285	83239177	83941422	84422962	1.76	cps
Strontium	88-1	732318416	717154256	718657403	722710025	1.16	cps
Sulfur	34-1	32653141	30096709	31414391	31388080	4.07	cps
Terbium	159-1	20261146	19558494	20052115	19957252	1.81	cps
Terbium	159-2	7040679	7088837	7363405	7164307	2.43	cps
Thallium	203-1	297	293	297	296	0.65	cps
Thallium	205-1	657	703	743	701	6.19	cps
Tin	118-1	5138	4848	4824	4936	3.54	cps
Titanium	47-1	2044	1943	1943	1977	2.92	cps
Uranium	238-1	6462	6478	6779	6573	2.71	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-08	Instrumnet Name :	P8
Client Sample ID :	ME2985	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:54:32	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	11078	11531	11265	11291	2.02	cps
Ytterbium	172-1	117	113	153	128	17.37	cps
Ytterbium	172-2	57	77	63	66	15.54	cps
Ytterbium	176-1	2067	1944	1937	1982	3.69	cps
Ytterbium	176-2	263	260	333	286	14.50	cps
Yttrium	89-1	28187651	27721626	28272735	28060671	1.06	cps
Yttrium	89-2	2143203	2158016	2256881	2186033	2.83	cps
Zinc	66-2	517	460	547	508	8.67	cps
Zirconium	90-1	1630	1543	1667	1613	3.93	cps
Zirconium	91-1	370	343	310	341	8.81	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	857	790	857	834	4.61	cps
Antimony	121-1	1630	1660	1667	1652	1.18	cps
Arsenic	75-2	367	347	413	376	9.11	cps
Barium	135-1	295209	295865	307247	299441	2.26	cps
Barium	137-1	517245	520234	530651	522710	1.35	cps
Beryllium	9-1	467	441	457	455	2.91	cps
Bismuth	209-1	11095163	11307730	11064243	11155712	1.19	cps
Bismuth	209-2	4921894	5007915	5269583	5066464	3.57	cps
Bromine	81-1	125642	149349	162047	145679	12.68	cps
Cadmium	108-1	43	33	43	40	14.43	cps
Cadmium	106-1	7952	8426	7922	8100	3.49	cps
Cadmium	111-1	5623	5968	5609	5733	3.55	cps
Calcium	43-1	23807154	23835805	24479700	24040886	1.58	cps
Calcium	44-1	382562474	387199181	392864047	387541901	1.33	cps
Carbon	12-1	9711089	10643189	11047339	10467206	6.55	cps
Carbon	12-2	74752	74501	75713	74989	0.85	cps
Chlorine	35-1	16150599	17613880	18429006	17397828	6.64	cps
Chlorine	35-2	78394	79848	79610	79284	0.98	cps
Chromium	52-2	2644	2744	2867	2751	4.07	cps
Cobalt	59-2	18208	18005	18462	18225	1.26	cps
Copper	63-2	9947	10551	10657	10385	3.69	cps
Dysprosium	156-1	40	47	47	44	8.66	cps
Dysprosium	156-2	40	7	10	19	97.18	cps
Erbium	164-1	120	127	143	130	9.25	cps
Erbium	164-2	57	47	57	53	10.82	cps
Gadolinium	160-1	143	193	160	166	15.38	cps
Gadolinium	160-2	23	30	40	31	26.97	cps
Holmium	165-1	19305161	19273094	18953065	19177107	1.02	cps
Holmium	165-2	7199143	7288287	7735928	7407786	3.88	cps
Indium	115-1	15408018	15496856	15347975	15417617	0.49	cps
Indium	115-2	1642173	1673827	1748065	1688022	3.22	cps
Iron	54-2	144428	144415	142371	143738	0.82	cps
Iron	56-2	2769420	2703652	2710200	2727757	1.33	cps
Iron	57-2	66310	66621	65754	66228	0.66	cps
Krypton	83-1	263	333	347	314	14.23	cps
Lead	206-1	2907	2980	3070	2986	2.74	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2510	2567	2680	2586	3.35	cps
Lead	208-1	11292	11619	11956	11622	2.85	cps
Lithium	6-1	9076323	9146112	8962411	9061615	1.02	cps
Magnesium	24-2	31100373	30729115	30807505	30878997	0.63	cps
Manganese	55-2	443015	430609	434721	436115	1.45	cps
Molybdenum	94-1	22772	23557	23356	23228	1.76	cps
Molybdenum	95-1	35625	36257	36284	36056	1.03	cps
Molybdenum	96-1	39045	39844	39904	39597	1.21	cps
Molybdenum	97-1	22418	22118	23126	22554	2.30	cps
Molybdenum	98-1	56447	57599	58489	57512	1.78	cps
Neodymium	150-1	110	77	100	96	17.90	cps
Neodymium	150-2	27	3	10	13	90.16	cps
Nickel	60-2	10194	10647	10354	10398	2.21	cps
Phosphorus	31-2	150	120	173	148	18.09	cps
Potassium	39-2	590234	588559	585017	587937	0.45	cps
Rhodium	103-1	13853924	14479293	13983016	14105411	2.34	cps
Rhodium	103-2	5864157	5856543	6047849	5922850	1.83	cps
Scandium	45-1	11399526	11847163	11542778	11596489	1.97	cps
Scandium	45-2	230171	232633	245987	236264	3.60	cps
Selenium	82-1	130	153	110	131	16.54	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	13	20	14	35.26	cps
Silicon	28-1	98278985	98051342	99833059	98721129	0.98	cps
Silver	107-1	547	593	630	590	7.08	cps
Silver	109-1	283	437	450	390	23.75	cps
Sodium	23-2	54897563	55309441	54275298	54827434	0.95	cps
Strontium	86-1	66933134	67782491	68748324	67821316	1.34	cps
Strontium	88-1	573576951	587081378	586728845	582462391	1.32	cps
Sulfur	34-1	29097085	28791650	29531247	29139994	1.28	cps
Terbium	159-1	19506273	20134055	19631840	19757389	1.68	cps
Terbium	159-2	7038489	7017795	7366087	7140790	2.74	cps
Thallium	203-1	443	517	423	461	10.66	cps
Thallium	205-1	1167	1057	1023	1082	6.93	cps
Tin	118-1	5038	5131	5021	5063	1.17	cps
Titanium	47-1	2010	2240	2104	2118	5.46	cps
Uranium	238-1	251774	255397	253915	253695	0.72	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-09	Instrumnet Name :	P8
Client Sample ID :	ME2986	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 15:57:45	DataFile Name :	069AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	423	430	463	439	4.88	cps
Ytterbium	172-1	103	137	133	124	14.76	cps
Ytterbium	172-2	63	53	43	53	18.75	cps
Ytterbium	176-1	1827	1954	1727	1836	6.19	cps
Ytterbium	176-2	243	337	343	308	18.17	cps
Yttrium	89-1	27897414	28479754	27786840	28054669	1.33	cps
Yttrium	89-2	2174914	2144851	2264971	2194912	2.85	cps
Zinc	66-2	1890	1947	1900	1912	1.58	cps
Zirconium	90-1	7055	6945	6698	6900	2.65	cps
Zirconium	91-1	1400	1510	1500	1470	4.14	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	870	933	973	926	5.63	cps
Antimony	121-1	577	563	623	588	5.36	cps
Arsenic	75-2	90	110	110	103	11.17	cps
Barium	135-1	194361	195596	198026	195994	0.95	cps
Barium	137-1	337169	345035	346315	342840	1.44	cps
Beryllium	9-1	372	381	399	384	3.48	cps
Bismuth	209-1	11451128	11497195	11335307	11427877	0.73	cps
Bismuth	209-2	5077515	5083922	5070084	5077174	0.14	cps
Bromine	81-1	261561	324108	363812	316493	16.29	cps
Cadmium	108-1	33	27	37	32	15.80	cps
Cadmium	106-1	8066	8096	8383	8181	2.14	cps
Cadmium	111-1	5673	5698	5879	5750	1.95	cps
Calcium	43-1	21417729	21811929	22060776	21763478	1.49	cps
Calcium	44-1	347334488	347499035	359573528	351469017	2.00	cps
Carbon	12-1	9662366	10402733	10893194	10319431	6.00	cps
Carbon	12-2	75191	75911	76518	75873	0.88	cps
Chlorine	35-1	26037520	27643550	28975349	27552139	5.34	cps
Chlorine	35-2	122312	122862	123229	122801	0.38	cps
Chromium	52-2	6181	6205	6328	6238	1.26	cps
Cobalt	59-2	1057	1063	1037	1052	1.32	cps
Copper	63-2	8156	8096	8039	8097	0.72	cps
Dysprosium	156-1	60	33	53	49	28.39	cps
Dysprosium	156-2	7	20	7	11	69.25	cps
Erbium	164-1	130	153	137	140	8.59	cps
Erbium	164-2	63	33	70	56	35.16	cps
Gadolinium	160-1	157	187	177	173	8.81	cps
Gadolinium	160-2	57	27	23	36	51.64	cps
Holmium	165-1	19559183	19648626	19527061	19578290	0.32	cps
Holmium	165-2	7412694	7298410	7441860	7384321	1.03	cps
Indium	115-1	15867215	16059477	16018903	15981865	0.63	cps
Indium	115-2	1681810	1676136	1705004	1687650	0.91	cps
Iron	54-2	37442	37726	37175	37448	0.74	cps
Iron	56-2	677548	684085	678027	679887	0.54	cps
Iron	57-2	17684	17985	17681	17783	0.98	cps
Krypton	83-1	300	347	307	318	7.94	cps
Lead	206-1	3511	3777	3861	3716	4.92	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2980	3137	3150	3089	3.06	cps
Lead	208-1	13956	14573	15010	14513	3.65	cps
Lithium	6-1	9107519	9257333	9406584	9257145	1.62	cps
Magnesium	24-2	42351289	42798338	42850223	42666617	0.64	cps
Manganese	55-2	109045	110305	108441	109264	0.87	cps
Molybdenum	94-1	5568	5701	5778	5682	1.87	cps
Molybdenum	95-1	7729	7389	7652	7590	2.35	cps
Molybdenum	96-1	8039	8349	8316	8235	2.07	cps
Molybdenum	97-1	4614	4661	4838	4704	2.50	cps
Molybdenum	98-1	11925	12095	12012	12011	0.71	cps
Neodymium	150-1	80	90	83	84	6.03	cps
Neodymium	150-2	10	10	13	11	17.30	cps
Nickel	60-2	4191	4087	4341	4206	3.03	cps
Phosphorus	31-2	320	277	297	298	7.28	cps
Potassium	39-2	2515830	2602788	2513972	2544197	1.99	cps
Rhodium	103-1	13970069	14044016	14448149	14154078	1.82	cps
Rhodium	103-2	5880505	5968264	5968089	5938953	0.85	cps
Scandium	45-1	11646944	11746463	11915498	11769635	1.15	cps
Scandium	45-2	234852	237809	236909	236523	0.64	cps
Selenium	82-1	177	183	117	159	23.11	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	23	3	10	12	83.33	cps
Silicon	28-1	94675422	94524442	95928899	95042921	0.81	cps
Silver	107-1	2629	1987	1113	1910	39.83	cps
Silver	109-1	2020	1417	800	1412	43.20	cps
Sodium	23-2	42372136	43117778	42820849	42770254	0.88	cps
Strontium	86-1	71236689	73025951	71748372	72003671	1.28	cps
Strontium	88-1	616698964	634400097	616560897	622553320	1.65	cps
Sulfur	34-1	30886818	30948001	30970290	30935036	0.14	cps
Terbium	159-1	19796084	20077446	20702109	20191880	2.30	cps
Terbium	159-2	7056500	7077815	7148874	7094396	0.68	cps
Thallium	203-1	230	277	213	240	13.68	cps
Thallium	205-1	573	717	587	626	12.66	cps
Tin	118-1	8209	8132	8423	8255	1.82	cps
Titanium	47-1	2547	2770	2664	2660	4.20	cps
Uranium	238-1	23318	22844	23315	23159	1.18	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-10	Instrumnet Name :	P8
Client Sample ID :	ME2987	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:01:01	DataFile Name :	070AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	497	410	390	432	13.12	cps
Ytterbium	172-1	100	173	120	131	28.92	cps
Ytterbium	172-2	40	67	47	51	27.15	cps
Ytterbium	176-1	1750	1954	1887	1863	5.56	cps
Ytterbium	176-2	310	307	290	302	3.54	cps
Yttrium	89-1	28151898	28703350	28919345	28591531	1.38	cps
Yttrium	89-2	2150494	2166075	2202706	2173092	1.23	cps
Zinc	66-2	1140	1143	1120	1135	1.11	cps
Zirconium	90-1	3594	3370	3764	3576	5.52	cps
Zirconium	91-1	747	790	717	751	4.91	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5584	5801	5681	5689	1.91	cps
Antimony	121-1	3601	3594	3661	3618	1.02	cps
Arsenic	75-2	1340	1203	1117	1220	9.23	cps
Barium	135-1	271455	275928	273528	273637	0.82	cps
Barium	137-1	472912	478363	479005	476760	0.70	cps
Beryllium	9-1	435	410	426	424	2.99	cps
Bismuth	209-1	11608111	12120414	12103391	11943972	2.44	cps
Bismuth	209-2	5314525	5211789	5345176	5290497	1.32	cps
Bromine	81-1	159256	171444	175672	168791	5.05	cps
Cadmium	108-1	173	163	160	166	4.19	cps
Cadmium	106-1	8366	8356	8679	8467	2.17	cps
Cadmium	111-1	5921	5945	6164	6010	2.22	cps
Calcium	43-1	12208876	12303763	12402421	12305020	0.79	cps
Calcium	44-1	194221097	192705810	196013924	194313610	0.85	cps
Carbon	12-1	9522394	10132377	10500061	10051611	4.91	cps
Carbon	12-2	71050	70023	71416	70829	1.02	cps
Chlorine	35-1	8076986	8457478	8475282	8336582	2.70	cps
Chlorine	35-2	34965	35303	34631	34967	0.96	cps
Chromium	52-2	2954	2990	2780	2908	3.86	cps
Cobalt	59-2	16339	16096	15589	16008	2.39	cps
Copper	63-2	8032	8399	8239	8224	2.24	cps
Dysprosium	156-1	367	250	330	316	18.91	cps
Dysprosium	156-2	133	147	100	127	18.98	cps
Erbium	164-1	417	463	463	448	6.02	cps
Erbium	164-2	110	163	90	121	31.30	cps
Gadolinium	160-1	457	437	460	451	2.80	cps
Gadolinium	160-2	137	190	153	160	17.05	cps
Holmium	165-1	19914420	20850300	20616904	20460541	2.38	cps
Holmium	165-2	7450801	7482479	7660268	7531183	1.50	cps
Indium	115-1	15839581	16657089	16817784	16438151	3.19	cps
Indium	115-2	1702220	1706090	1727918	1712076	0.81	cps
Iron	54-2	29467	30372	29701	29847	1.57	cps
Iron	56-2	546144	551340	543985	547156	0.69	cps
Iron	57-2	14127	13934	13887	13983	0.91	cps
Krypton	83-1	240	313	293	282	13.43	cps
Lead	206-1	4701	4384	4347	4477	4.34	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3694	3771	3851	3772	2.08	cps
Lead	208-1	17735	17365	17365	17488	1.22	cps
Lithium	6-1	9362262	9712910	9692763	9589312	2.05	cps
Magnesium	24-2	16707737	16356959	16287617	16450771	1.37	cps
Manganese	55-2	1227766	1226082	1224845	1226231	0.12	cps
Molybdenum	94-1	176417	180049	177693	178053	1.03	cps
Molybdenum	95-1	301936	305008	309157	305367	1.19	cps
Molybdenum	96-1	318580	327862	324415	323619	1.45	cps
Molybdenum	97-1	185638	189549	191845	189010	1.66	cps
Molybdenum	98-1	483880	488366	493192	488480	0.95	cps
Neodymium	150-1	480	510	413	468	10.58	cps
Neodymium	150-2	123	93	90	102	17.96	cps
Nickel	60-2	4848	4751	4894	4831	1.51	cps
Phosphorus	31-2	740	777	773	763	2.66	cps
Potassium	39-2	1987155	1933107	1937243	1952502	1.54	cps
Rhodium	103-1	14822598	15155129	15218980	15065569	1.41	cps
Rhodium	103-2	6085970	6049127	6262294	6132464	1.86	cps
Scandium	45-1	11979608	12495987	12749286	12408294	3.16	cps
Scandium	45-2	240362	241770	243915	242015	0.74	cps
Selenium	82-1	233	143	123	167	35.16	cps
Selenium	77-2	7	0	3	3	100.05	cps
Selenium	78-2	10	23	13	16	44.60	cps
Silicon	28-1	114327065	115203668	114601848	114710861	0.39	cps
Silver	107-1	603	640	660	634	4.53	cps
Silver	109-1	307	327	327	320	3.61	cps
Sodium	23-2	68825032	67154177	66291391	67423533	1.91	cps
Strontium	86-1	98603302	100390919	99184752	99392991	0.92	cps
Strontium	88-1	847310547	852167774	846430307	848636210	0.36	cps
Sulfur	34-1	20703354	20811766	21025156	20846759	0.79	cps
Terbium	159-1	20302760	20855455	21234986	20797733	2.25	cps
Terbium	159-2	7427603	7349226	7324042	7366957	0.73	cps
Thallium	203-1	283	277	303	288	4.82	cps
Thallium	205-1	643	707	657	669	4.99	cps
Tin	118-1	17465	17611	17918	17665	1.31	cps
Titanium	47-1	11331	11678	11461	11490	1.53	cps
Uranium	238-1	137917	140414	139291	139208	0.90	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-11	Instrumnet Name :	P8
Client Sample ID :	ME2988	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:04:15	DataFile Name :	071AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1393	1490	1453	1446	3.38	cps
Ytterbium	172-1	213	260	257	243	10.70	cps
Ytterbium	172-2	127	73	87	96	29.05	cps
Ytterbium	176-1	2047	1970	2050	2022	2.24	cps
Ytterbium	176-2	340	353	380	358	5.69	cps
Yttrium	89-1	28865928	30004488	29997202	29622539	2.21	cps
Yttrium	89-2	2212951	2217679	2233076	2221235	0.47	cps
Zinc	66-2	1377	1303	1343	1341	2.74	cps
Zirconium	90-1	4647	4654	4874	4725	2.73	cps
Zirconium	91-1	990	1000	953	981	2.50	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3754	3927	4067	3916	4.01	cps
Antimony	121-1	423	450	430	434	3.19	cps
Arsenic	75-2	210	257	247	238	10.33	cps
Barium	135-1	33244	33298	34293	33612	1.76	cps
Barium	137-1	57441	58362	59423	58409	1.70	cps
Beryllium	9-1	436	420	412	423	2.87	cps
Bismuth	209-1	11702277	11457559	11455819	11538551	1.23	cps
Bismuth	209-2	4990628	4920652	5017908	4976396	1.01	cps
Bromine	81-1	172008	200313	217898	196740	11.77	cps
Cadmium	108-1	33	27	50	37	32.78	cps
Cadmium	106-1	8376	7892	8149	8139	2.97	cps
Cadmium	111-1	5863	5543	5716	5707	2.81	cps
Calcium	43-1	26596646	26283921	26907161	26595910	1.17	cps
Calcium	44-1	429345980	423403660	438825393	430525011	1.81	cps
Carbon	12-1	9149291	10058191	10563865	9923782	7.22	cps
Carbon	12-2	73003	73764	73804	73524	0.61	cps
Chlorine	35-1	5220039	5518204	5764989	5501077	4.96	cps
Chlorine	35-2	22962	23422	23316	23233	1.04	cps
Chromium	52-2	1757	1827	1927	1837	4.65	cps
Cobalt	59-2	587	623	533	581	7.79	cps
Copper	63-2	6578	6405	6482	6488	1.34	cps
Dysprosium	156-1	133	110	147	130	14.28	cps
Dysprosium	156-2	57	47	43	49	14.20	cps
Erbium	164-1	210	230	180	207	12.18	cps
Erbium	164-2	97	73	63	78	22.00	cps
Gadolinium	160-1	223	237	217	226	4.51	cps
Gadolinium	160-2	50	80	60	63	24.12	cps
Holmium	165-1	19887275	19579312	19888652	19785080	0.90	cps
Holmium	165-2	7292074	7281988	7233519	7269194	0.43	cps
Indium	115-1	15956288	15840123	15915509	15903973	0.37	cps
Indium	115-2	1653988	1654729	1641627	1650115	0.45	cps
Iron	54-2	843555	846027	846670	845417	0.19	cps
Iron	56-2	15869252	15860809	16182879	15970980	1.15	cps
Iron	57-2	391297	383280	388784	387787	1.06	cps
Krypton	83-1	323	350	367	347	6.31	cps
Lead	206-1	2264	2194	2420	2292	5.06	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1980	1863	1997	1947	3.73	cps
Lead	208-1	8978	8885	9231	9031	1.99	cps
Lithium	6-1	9139779	9104504	9386948	9210410	1.67	cps
Magnesium	24-2	45876704	45781758	46266458	45974973	0.56	cps
Manganese	55-2	104956	105577	106688	105740	0.83	cps
Molybdenum	94-1	8923	9246	9277	9149	2.14	cps
Molybdenum	95-1	13613	14471	13907	13997	3.11	cps
Molybdenum	96-1	14564	15042	14931	14846	1.68	cps
Molybdenum	97-1	8496	8883	8406	8595	2.95	cps
Molybdenum	98-1	21821	21694	21984	21833	0.67	cps
Neodymium	150-1	160	197	173	177	10.51	cps
Neodymium	150-2	37	27	37	33	17.32	cps
Nickel	60-2	1210	1237	1250	1232	1.65	cps
Phosphorus	31-2	130	117	150	132	12.69	cps
Potassium	39-2	694737	684508	694271	691172	0.84	cps
Rhodium	103-1	14855949	14290799	14564797	14570515	1.94	cps
Rhodium	103-2	5895575	5905622	5911082	5904093	0.13	cps
Scandium	45-1	12123660	11713229	11801704	11879531	1.82	cps
Scandium	45-2	232898	230869	232861	232209	0.50	cps
Selenium	82-1	93	80	117	97	19.20	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	7	23	13	66.12	cps
Silicon	28-1	139454648	139062935	140638268	139718617	0.59	cps
Silver	107-1	563	530	580	558	4.56	cps
Silver	109-1	210	360	300	290	26.04	cps
Sodium	23-2	26109885	25882405	26290528	26094273	0.78	cps
Strontium	86-1	70606011	71435264	71586731	71209335	0.74	cps
Strontium	88-1	602991044	617185817	626188551	615455137	1.90	cps
Sulfur	34-1	44983449	44464468	45310419	44919445	0.95	cps
Terbium	159-1	20633877	19941942	20438263	20338027	1.75	cps
Terbium	159-2	7058708	6856405	7047650	6987588	1.63	cps
Thallium	203-1	290	263	223	259	12.96	cps
Thallium	205-1	613	660	670	648	4.67	cps
Tin	118-1	4537	4167	4491	4399	4.58	cps
Titanium	47-1	3124	2767	3057	2983	6.36	cps
Uranium	238-1	43665	43932	45284	44294	1.96	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-12	Instrumnet Name :	P8
Client Sample ID :	ME2992	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:07:31	DataFile Name :	072AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	177	160	167	168	5.00	cps
Ytterbium	172-1	133	137	167	146	12.61	cps
Ytterbium	172-2	53	63	70	62	13.48	cps
Ytterbium	176-1	1807	1887	2017	1903	5.57	cps
Ytterbium	176-2	277	337	320	311	9.96	cps
Yttrium	89-1	29037685	28578779	29199410	28938625	1.11	cps
Yttrium	89-2	2153973	2143739	2121190	2139634	0.78	cps
Zinc	66-2	1157	1200	1143	1167	2.54	cps
Zirconium	90-1	2357	2590	2464	2470	4.73	cps
Zirconium	91-1	543	457	600	533	13.54	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	397	387	390	391	1.30	cps
Antimony	121-1	280	250	210	247	14.24	cps
Arsenic	75-2	40	50	57	49	17.16	cps
Barium	135-1	63568	64640	64914	64374	1.10	cps
Barium	137-1	110551	113976	114721	113083	1.97	cps
Beryllium	9-1	460	442	426	443	3.81	cps
Bismuth	209-1	12115255	11883456	11966696	11988469	0.98	cps
Bismuth	209-2	5328856	5014794	5045169	5129606	3.38	cps
Bromine	81-1	123334	130436	135110	129627	4.57	cps
Cadmium	108-1	30	27	20	26	19.92	cps
Cadmium	106-1	8886	8783	8253	8641	3.94	cps
Cadmium	111-1	6216	6153	5789	6053	3.80	cps
Calcium	43-1	16879150	17030915	16921138	16943734	0.46	cps
Calcium	44-1	272777949	272243243	271240096	272087096	0.29	cps
Carbon	12-1	9453667	10246489	10874255	10191470	6.99	cps
Carbon	12-2	72708	73154	74715	73526	1.43	cps
Chlorine	35-1	3578181	3728729	3822270	3709727	3.32	cps
Chlorine	35-2	15665	15679	15722	15689	0.19	cps
Chromium	52-2	1887	1737	1763	1796	4.46	cps
Cobalt	59-2	210	317	320	282	22.17	cps
Copper	63-2	5708	5971	5808	5829	2.28	cps
Dysprosium	156-1	127	97	120	114	13.76	cps
Dysprosium	156-2	30	53	40	41	28.47	cps
Erbium	164-1	243	237	293	258	12.02	cps
Erbium	164-2	80	63	73	72	11.62	cps
Gadolinium	160-1	263	250	243	252	4.04	cps
Gadolinium	160-2	67	57	63	62	8.18	cps
Holmium	165-1	19911371	20045829	20098154	20018451	0.48	cps
Holmium	165-2	7536232	7166411	7321111	7341251	2.53	cps
Indium	115-1	16624180	16369518	16305538	16433079	1.03	cps
Indium	115-2	1708961	1586971	1658449	1651460	3.71	cps
Iron	54-2	103934	103488	104404	103942	0.44	cps
Iron	56-2	1992493	2010568	2023282	2008781	0.77	cps
Iron	57-2	48215	48753	47576	48181	1.22	cps
Krypton	83-1	290	270	287	282	3.80	cps
Lead	206-1	2460	2427	2444	2444	0.68	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2164	2127	2184	2158	1.33	cps
Lead	208-1	9948	9878	9892	9906	0.38	cps
Lithium	6-1	9628284	9531837	9392822	9517648	1.24	cps
Magnesium	24-2	21080655	20945144	20832662	20952820	0.59	cps
Manganese	55-2	135641	136482	136048	136057	0.31	cps
Molybdenum	94-1	2240	2454	2280	2325	4.88	cps
Molybdenum	95-1	2840	2787	2810	2813	0.95	cps
Molybdenum	96-1	3044	3107	3380	3177	5.63	cps
Molybdenum	97-1	1767	1680	1757	1735	2.73	cps
Molybdenum	98-1	4404	4407	4761	4524	4.53	cps
Neodymium	150-1	83	60	77	73	16.39	cps
Neodymium	150-2	27	10	10	16	61.87	cps
Nickel	60-2	1117	1240	1243	1200	6.02	cps
Phosphorus	31-2	363	370	357	363	1.84	cps
Potassium	39-2	509913	506186	509654	508584	0.41	cps
Rhodium	103-1	14907113	15117504	14845278	14956631	0.95	cps
Rhodium	103-2	6234132	5821223	5993258	6016204	3.45	cps
Scandium	45-1	12186789	11986036	12169371	12114065	0.92	cps
Scandium	45-2	239978	228634	232678	233763	2.46	cps
Selenium	82-1	137	250	137	174	37.51	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	7	10	6	91.64	cps
Silicon	28-1	82602847	82533129	83011359	82715778	0.31	cps
Silver	107-1	557	570	540	556	2.71	cps
Silver	109-1	223	247	210	227	8.19	cps
Sodium	23-2	15285588	14951350	14798661	15011866	1.66	cps
Strontium	86-1	81007784	84049240	83601427	82886150	1.98	cps
Strontium	88-1	690711990	709671696	722087403	707490363	2.23	cps
Sulfur	34-1	24176405	23887639	24160975	24075007	0.67	cps
Terbium	159-1	20950452	20535490	20669435	20718459	1.02	cps
Terbium	159-2	7289936	6762041	7018434	7023470	3.76	cps
Thallium	203-1	257	270	277	268	3.80	cps
Thallium	205-1	587	647	607	613	4.98	cps
Tin	118-1	7125	7582	7279	7329	3.17	cps
Titanium	47-1	1893	2047	1760	1900	7.55	cps
Uranium	238-1	7159	7109	7102	7123	0.44	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-13	Instrumnet Name :	P8
Client Sample ID :	ME2994	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:10:44	DataFile Name :	073AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	180	150	213	181	17.49	cps
Ytterbium	172-1	150	187	187	174	12.14	cps
Ytterbium	172-2	87	90	83	87	3.85	cps
Ytterbium	176-1	1900	1910	1770	1860	4.20	cps
Ytterbium	176-2	280	307	340	309	9.73	cps
Yttrium	89-1	29585090	29300113	28728282	29204495	1.49	cps
Yttrium	89-2	2226445	2065947	2147747	2146713	3.74	cps
Zinc	66-2	1020	960	907	962	5.89	cps
Zirconium	90-1	1933	1967	1877	1926	2.36	cps
Zirconium	91-1	350	410	340	367	10.33	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	620	620	620	620	0.00	cps
Antimony	121-1	227	173	203	201	13.29	cps
Arsenic	75-2	523	587	630	580	9.25	cps
Barium	135-1	60146	60106	61928	60726	1.71	cps
Barium	137-1	105904	106368	108666	106979	1.38	cps
Beryllium	9-1	422	425	394	414	4.20	cps
Bismuth	209-1	11601505	11578657	11599081	11593081	0.11	cps
Bismuth	209-2	5044893	5102707	5077042	5074881	0.57	cps
Bromine	81-1	160142	196006	213152	189767	14.25	cps
Cadmium	108-1	33	37	27	32	15.80	cps
Cadmium	106-1	8296	8553	8506	8452	1.62	cps
Cadmium	111-1	5804	5975	5952	5910	1.57	cps
Calcium	43-1	24024865	24337981	24575805	24312884	1.14	cps
Calcium	44-1	386637448	391148368	393550407	390445408	0.90	cps
Carbon	12-1	11185850	11987946	12547663	11907153	5.75	cps
Carbon	12-2	83177	84296	84169	83881	0.73	cps
Chlorine	35-1	10454040	11979212	12370593	11601281	8.73	cps
Chlorine	35-2	52883	53940	53900	53574	1.12	cps
Chromium	52-2	1603	1510	1713	1609	6.33	cps
Cobalt	59-2	660	667	730	686	5.64	cps
Copper	63-2	5655	5464	5805	5641	3.02	cps
Dysprosium	156-1	140	113	97	117	18.73	cps
Dysprosium	156-2	37	43	37	39	9.89	cps
Erbium	164-1	180	210	167	186	11.96	cps
Erbium	164-2	53	80	90	74	25.46	cps
Gadolinium	160-1	157	243	250	217	24.03	cps
Gadolinium	160-2	80	77	77	78	2.47	cps
Holmium	165-1	20239297	19981952	20470728	20230659	1.21	cps
Holmium	165-2	7560688	7392652	7388514	7447285	1.32	cps
Indium	115-1	16130214	16256503	16081751	16156156	0.56	cps
Indium	115-2	1677659	1693780	1684591	1685343	0.48	cps
Iron	54-2	424006	424411	431534	426650	0.99	cps
Iron	56-2	8046606	8145991	8122571	8105056	0.64	cps
Iron	57-2	195998	196512	196379	196296	0.14	cps
Krypton	83-1	343	380	310	344	10.16	cps
Lead	206-1	2107	2150	2204	2154	2.25	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1753	1730	1660	1715	2.83	cps
Lead	208-1	8161	8188	8201	8183	0.25	cps
Lithium	6-1	9314269	9554572	9576295	9481712	1.53	cps
Magnesium	24-2	28700966	28619684	28279816	28533489	0.78	cps
Manganese	55-2	288332	290501	288506	289113	0.42	cps
Molybdenum	94-1	6261	6585	6181	6343	3.37	cps
Molybdenum	95-1	9276	9460	9690	9476	2.19	cps
Molybdenum	96-1	9934	9677	10571	10060	4.58	cps
Molybdenum	97-1	5785	5931	5998	5905	1.85	cps
Molybdenum	98-1	14341	14871	14818	14677	1.99	cps
Neodymium	150-1	153	140	113	136	15.02	cps
Neodymium	150-2	17	27	37	27	37.50	cps
Nickel	60-2	2044	1823	2034	1967	6.32	cps
Phosphorus	31-2	237	237	223	232	3.31	cps
Potassium	39-2	794685	797791	795951	796142	0.20	cps
Rhodium	103-1	14333708	14910866	14555048	14599874	1.99	cps
Rhodium	103-2	6063829	5991875	6023975	6026560	0.60	cps
Scandium	45-1	11823234	12053936	12091001	11989390	1.21	cps
Scandium	45-2	236326	235438	237881	236548	0.52	cps
Selenium	82-1	87	73	177	112	50.08	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	3	20	0	8	137.80	cps
Silicon	28-1	97164322	98383869	98771059	98106416	0.85	cps
Silver	107-1	547	463	623	544	14.70	cps
Silver	109-1	257	210	230	232	10.08	cps
Sodium	23-2	48989553	47938571	48319276	48415800	1.10	cps
Strontium	86-1	73876006	75670229	76250079	75265438	1.64	cps
Strontium	88-1	650338417	651986884	655922657	652749319	0.44	cps
Sulfur	34-1	33818589	34841997	34789839	34483475	1.67	cps
Terbium	159-1	20340421	20494837	20616053	20483770	0.67	cps
Terbium	159-2	7104822	7104859	7060424	7090035	0.36	cps
Thallium	203-1	247	260	277	261	5.76	cps
Thallium	205-1	597	640	557	598	6.97	cps
Tin	118-1	4724	5184	4914	4941	4.68	cps
Titanium	47-1	2137	2150	2237	2175	2.50	cps
Uranium	238-1	9650	9997	9967	9872	1.95	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-14	Instrumnet Name :	P8
Client Sample ID :	ME2995	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:13:58	DataFile Name :	074AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	253	250	313	272	13.09	cps
Ytterbium	172-1	140	147	123	137	8.79	cps
Ytterbium	172-2	57	40	50	49	17.16	cps
Ytterbium	176-1	1880	1994	2000	1958	3.45	cps
Ytterbium	176-2	310	290	347	316	9.11	cps
Yttrium	89-1	28916550	29350061	29245642	29170751	0.78	cps
Yttrium	89-2	2200716	2188531	2171219	2186822	0.68	cps
Zinc	66-2	343	340	353	346	2.01	cps
Zirconium	90-1	2790	2810	2714	2771	1.84	cps
Zirconium	91-1	583	617	563	588	4.58	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3866840	3839938	3811867	3839548	0.72	cps
Antimony	121-1	8599857	8561651	8509442	8556983	0.53	cps
Arsenic	75-2	180507	180047	181651	180735	0.46	cps
Barium	135-1	10247205	10364931	10341698	10317944	0.60	cps
Barium	137-1	17825844	18028054	17828047	17893982	0.65	cps
Beryllium	9-1	3204026	3132120	3179670	3171939	1.15	cps
Bismuth	209-1	11256602	11125359	11346154	11242705	0.99	cps
Bismuth	209-2	4832286	4924220	4897235	4884580	0.97	cps
Bromine	81-1	49293	46253	43006	46184	6.81	cps
Cadmium	108-1	163810	165477	165764	165017	0.64	cps
Cadmium	106-1	242091	245226	243561	243626	0.64	cps
Cadmium	111-1	2022986	2070595	2107513	2067031	2.05	cps
Calcium	43-1	14387784	14506459	14370337	14421527	0.51	cps
Calcium	44-1	233053303	233582030	234332843	233656059	0.28	cps
Carbon	12-1	7415317	7453227	7381544	7416696	0.48	cps
Carbon	12-2	53657	53038	52744	53147	0.88	cps
Chlorine	35-1	1369484	1306937	1271035	1315819	3.79	cps
Chlorine	35-2	4714	4561	4321	4532	4.38	cps
Chromium	52-2	2058682	2099141	2098608	2085477	1.11	cps
Cobalt	59-2	3778658	3815775	3838653	3811029	0.79	cps
Copper	63-2	27771220	27507423	28315614	27864752	1.48	cps
Dysprosium	156-1	470	440	503	471	6.73	cps
Dysprosium	156-2	147	90	120	119	23.85	cps
Erbium	164-1	447	507	437	463	8.17	cps
Erbium	164-2	137	180	137	151	16.55	cps
Gadolinium	160-1	393	463	403	420	9.02	cps
Gadolinium	160-2	173	150	170	164	7.68	cps
Holmium	165-1	19713788	19928929	19924209	19855642	0.62	cps
Holmium	165-2	7400188	7187266	7166079	7251178	1.79	cps
Indium	115-1	15034563	15309512	15483666	15275914	1.48	cps
Indium	115-2	1576257	1584558	1619147	1593321	1.43	cps
Iron	54-2	19847032	20305835	20228752	20127206	1.22	cps
Iron	56-2	362144555	362281848	374463741	366296715	1.93	cps
Iron	57-2	9200416	9090730	9368341	9219829	1.52	cps
Krypton	83-1	297	277	300	291	4.34	cps
Lead	206-1	32259020	32793116	32548760	32533632	0.82	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27274639	27971902	27450890	27565810	1.32	cps
Lead	208-1	127561816	128482676	128419596	128154696	0.40	cps
Lithium	6-1	9182515	8691161	9021579	8965085	2.79	cps
Magnesium	24-2	66686411	67632842	67725426	67348226	0.85	cps
Manganese	55-2	8117797	8266432	8350592	8244940	1.43	cps
Molybdenum	94-1	31261647	31271076	31677244	31403322	0.76	cps
Molybdenum	95-1	44557108	43891089	44961633	44469943	1.22	cps
Molybdenum	96-1	48940056	48286618	48564941	48597205	0.67	cps
Molybdenum	97-1	27573120	27278392	27630800	27494104	0.69	cps
Molybdenum	98-1	71412134	71203232	71907409	71507592	0.51	cps
Neodymium	150-1	790	833	843	822	3.45	cps
Neodymium	150-2	80	67	90	79	14.84	cps
Nickel	60-2	964326	962638	985520	970828	1.31	cps
Phosphorus	31-2	37281	36656	37552	37163	1.24	cps
Potassium	39-2	19329416	19628011	19711453	19556293	1.03	cps
Rhodium	103-1	14015950	13970277	13977854	13988027	0.17	cps
Rhodium	103-2	5758948	5730191	5674987	5721375	0.75	cps
Scandium	45-1	11582426	11460268	11527578	11523424	0.53	cps
Scandium	45-2	230971	232161	232190	231774	0.30	cps
Selenium	82-1	125176	126739	124882	125599	0.79	cps
Selenium	77-2	2220	2374	2157	2250	4.95	cps
Selenium	78-2	7736	7479	7906	7707	2.79	cps
Silicon	28-1	7711792	7745811	7831552	7763052	0.79	cps
Silver	107-1	10427449	10387767	10295189	10370135	0.65	cps
Silver	109-1	9720970	9743021	9732005	9731999	0.11	cps
Sodium	23-2	131912235	137950318	137258535	135707029	2.44	cps
Strontium	86-1	2900570	2917227	2906100	2907965	0.29	cps
Strontium	88-1	24766373	25229655	24941694	24979241	0.94	cps
Sulfur	34-1	1665921	1687889	1661256	1671689	0.85	cps
Terbium	159-1	20109921	20361201	20258897	20243340	0.62	cps
Terbium	159-2	6911917	6881204	7003342	6932155	0.92	cps
Thallium	203-1	7946281	8077551	8075714	8033182	0.94	cps
Thallium	205-1	18984031	18874837	19136822	18998563	0.69	cps
Tin	118-1	6848028	6918715	6825808	6864184	0.71	cps
Titanium	47-1	14289458	14149886	14153837	14197727	0.56	cps
Uranium	238-1	26341097	25832433	26258488	26144006	1.04	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:17:15	DataFile Name :	075CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1623814	1639150	1641380	1634781	0.59	cps
Ytterbium	172-1	500	527	483	503	4.34	cps
Ytterbium	172-2	253	227	230	237	6.14	cps
Ytterbium	176-1	40392	40799	40572	40588	0.50	cps
Ytterbium	176-2	14431	14571	14805	14603	1.29	cps
Yttrium	89-1	28371661	28505194	28467234	28448030	0.24	cps
Yttrium	89-2	2112274	2092549	2173764	2126196	1.99	cps
Zinc	66-2	3027343	3016908	3072345	3038865	0.97	cps
Zirconium	90-1	15620001	15728693	15708817	15685837	0.37	cps
Zirconium	91-1	3450699	3494986	3508397	3484694	0.87	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	190	220	163	191	14.83	cps
Antimony	121-1	2910	2330	2180	2474	15.59	cps
Arsenic	75-2	23	7	13	14	58.06	cps
Barium	135-1	583	470	447	500	14.62	cps
Barium	137-1	1137	810	777	908	21.91	cps
Beryllium	9-1	1527	1424	1322	1424	7.20	cps
Bismuth	209-1	13071260	12963999	12997889	13011049	0.42	cps
Bismuth	209-2	5570537	5646091	5596871	5604499	0.68	cps
Bromine	81-1	23276	22558	20959	22264	5.33	cps
Cadmium	108-1	57	33	30	40	36.33	cps
Cadmium	106-1	8860	8516	8656	8677	1.99	cps
Cadmium	111-1	6369	6081	6188	6213	2.34	cps
Calcium	43-1	1687	1233	1177	1366	20.47	cps
Calcium	44-1	52616	47749	45549	48638	7.44	cps
Carbon	12-1	5551628	5513271	5512024	5525641	0.41	cps
Carbon	12-2	34247	34607	33395	34083	1.83	cps
Chlorine	35-1	835001	802523	783538	807020	3.22	cps
Chlorine	35-2	2934	3084	2870	2963	3.70	cps
Chromium	52-2	1603	1763	1737	1701	5.04	cps
Cobalt	59-2	243	237	253	244	3.43	cps
Copper	63-2	5921	5668	5398	5662	4.62	cps
Dysprosium	156-1	17	7	27	17	59.99	cps
Dysprosium	156-2	13	0	0	4	173.21	cps
Erbium	164-1	90	73	97	87	13.87	cps
Erbium	164-2	40	43	40	41	4.68	cps
Gadolinium	160-1	93	83	150	109	33.02	cps
Gadolinium	160-2	27	30	33	30	11.10	cps
Holmium	165-1	21092273	20638318	20876527	20869040	1.09	cps
Holmium	165-2	7485989	7516689	7545856	7516178	0.40	cps
Indium	115-1	17443802	17445517	17192692	17360670	0.84	cps
Indium	115-2	1782969	1783851	1744217	1770346	1.28	cps
Iron	54-2	1290	1350	1253	1298	3.76	cps
Iron	56-2	20224	20438	20305	20322	0.53	cps
Iron	57-2	517	430	440	462	10.26	cps
Krypton	83-1	273	343	283	300	12.62	cps
Lead	206-1	5745	4951	4684	5127	10.76	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4824	4414	3901	4380	10.57	cps
Lead	208-1	22555	19596	18392	20181	10.61	cps
Lithium	6-1	10052540	9999569	9853094	9968401	1.04	cps
Magnesium	24-2	3944	3834	4111	3963	3.52	cps
Manganese	55-2	463	490	487	480	3.03	cps
Molybdenum	94-1	2900	2284	2140	2441	16.54	cps
Molybdenum	95-1	3467	2424	2174	2688	25.53	cps
Molybdenum	96-1	3837	2940	2617	3132	20.19	cps
Molybdenum	97-1	2170	1720	1547	1812	17.76	cps
Molybdenum	98-1	5234	4254	3397	4295	21.40	cps
Neodymium	150-1	13	3	10	9	57.30	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	970	1027	1073	1023	5.06	cps
Phosphorus	31-2	63	63	80	69	13.97	cps
Potassium	39-2	18215	18619	18061	18298	1.57	cps
Rhodium	103-1	16190313	15757209	16324618	16090713	1.84	cps
Rhodium	103-2	6570028	6595127	6613907	6593021	0.33	cps
Scandium	45-1	12444255	12082356	12336104	12287572	1.51	cps
Scandium	45-2	239181	241988	240093	240421	0.60	cps
Selenium	82-1	67	-13	-10	14	313.27	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	0	13	3	6	124.93	cps
Silicon	28-1	737319	724841	717494	726551	1.38	cps
Silver	107-1	1984	1693	1420	1699	16.58	cps
Silver	109-1	1703	1390	1337	1477	13.42	cps
Sodium	23-2	86450	84563	84426	85146	1.33	cps
Strontium	86-1	1110	950	1033	1031	7.76	cps
Strontium	88-1	6625	4911	4718	5418	19.38	cps
Sulfur	34-1	831239	838077	839174	836163	0.51	cps
Terbium	159-1	21110326	21120716	21320952	21183998	0.56	cps
Terbium	159-2	7296067	7333641	7359299	7329669	0.43	cps
Thallium	203-1	1317	1030	970	1106	16.76	cps
Thallium	205-1	2917	2554	2307	2593	11.84	cps
Tin	118-1	3404	3314	3254	3324	2.27	cps
Titanium	47-1	1010	817	700	842	18.59	cps
Uranium	238-1	1500	1157	917	1191	24.62	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:19:59	DataFile Name :	076CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57	67	60	61	8.33	cps
Ytterbium	172-1	120	133	90	114	19.40	cps
Ytterbium	172-2	60	40	37	46	27.70	cps
Ytterbium	176-1	1957	1833	1970	1920	3.92	cps
Ytterbium	176-2	380	350	307	346	10.67	cps
Yttrium	89-1	30671960	30230652	30630727	30511113	0.80	cps
Yttrium	89-2	2244046	2236655	2210887	2230530	0.78	cps
Zinc	66-2	373	303	237	304	22.45	cps
Zirconium	90-1	2590	2300	1937	2276	14.39	cps
Zirconium	91-1	547	390	427	454	18.03	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	337	350	307	331	6.70	cps
Antimony	121-1	1267	1120	1263	1217	6.88	cps
Arsenic	75-2	100	97	90	96	5.33	cps
Barium	135-1	132975	138830	137537	136447	2.25	cps
Barium	137-1	235938	238205	238769	237637	0.63	cps
Beryllium	9-1	894	852	782	843	6.67	cps
Bismuth	209-1	11456738	11526239	12016847	11666608	2.62	cps
Bismuth	209-2	5162846	5127405	4971035	5087095	2.01	cps
Bromine	81-1	412088	523659	594553	510100	18.03	cps
Cadmium	108-1	63	57	63	61	6.29	cps
Cadmium	106-1	8356	8229	8426	8337	1.20	cps
Cadmium	111-1	5858	5807	5954	5873	1.27	cps
Calcium	43-1	17831972	17843691	18067046	17914236	0.74	cps
Calcium	44-1	289716162	293032256	294117362	292288593	0.78	cps
Carbon	12-1	8678256	9627289	10253857	9519800	8.33	cps
Carbon	12-2	69259	72106	70766	70710	2.01	cps
Chlorine	35-1	8419317	9391608	10014026	9274983	8.67	cps
Chlorine	35-2	42489	42807	42713	42669	0.38	cps
Chromium	52-2	1727	1707	1700	1711	0.81	cps
Cobalt	59-2	13613	13440	13330	13461	1.06	cps
Copper	63-2	5191	5238	5221	5217	0.45	cps
Dysprosium	156-1	37	67	40	48	34.42	cps
Dysprosium	156-2	20	17	30	22	31.22	cps
Erbium	164-1	117	180	140	146	22.00	cps
Erbium	164-2	47	43	23	38	33.41	cps
Gadolinium	160-1	223	137	180	180	24.07	cps
Gadolinium	160-2	33	23	50	36	37.90	cps
Holmium	165-1	19367055	19551414	20345931	19754800	2.63	cps
Holmium	165-2	7288176	7521103	7118866	7309382	2.76	cps
Indium	115-1	15597630	16006404	16278247	15960760	2.15	cps
Indium	115-2	1658956	1711390	1634188	1668178	2.36	cps
Iron	54-2	136044	134553	137387	135994	1.04	cps
Iron	56-2	2554335	2599328	2595345	2583003	0.96	cps
Iron	57-2	62617	62228	64060	62968	1.53	cps
Krypton	83-1	273	297	253	274	7.90	cps
Lead	206-1	3364	3270	3227	3287	2.13	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3124	2720	2814	2886	7.32	cps
Lead	208-1	13593	12532	12683	12936	4.44	cps
Lithium	6-1	9324754	9367479	9523668	9405300	1.11	cps
Magnesium	24-2	20588823	21370641	20625794	20861753	2.11	cps
Manganese	55-2	490949	491850	493973	492257	0.32	cps
Molybdenum	94-1	27454	26983	26749	27062	1.33	cps
Molybdenum	95-1	43307	44049	44956	44104	1.87	cps
Molybdenum	96-1	47049	47628	48344	47674	1.36	cps
Molybdenum	97-1	27494	27918	27601	27671	0.80	cps
Molybdenum	98-1	69493	70049	71647	70396	1.59	cps
Neodymium	150-1	73	57	73	68	14.19	cps
Neodymium	150-2	3	7	10	7	50.03	cps
Nickel	60-2	4981	4914	4601	4832	4.20	cps
Phosphorus	31-2	123	150	103	126	18.65	cps
Potassium	39-2	531042	529908	535856	532269	0.59	cps
Rhodium	103-1	14484297	14582090	15157232	14741206	2.47	cps
Rhodium	103-2	6085918	5984367	5856211	5975499	1.93	cps
Scandium	45-1	11723376	11676641	12164866	11854961	2.27	cps
Scandium	45-2	238111	239784	227127	235007	2.93	cps
Selenium	82-1	237	197	400	278	38.78	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	10	17	14	26.66	cps
Silicon	28-1	103461605	105891772	103899895	104417757	1.24	cps
Silver	107-1	863	737	850	817	8.52	cps
Silver	109-1	607	530	533	557	7.78	cps
Sodium	23-2	31539367	31579212	31598235	31572271	0.10	cps
Strontium	86-1	63285314	64068482	63570972	63641590	0.62	cps
Strontium	88-1	542576819	555665565	557122765	551788383	1.45	cps
Sulfur	34-1	19496263	19500088	19910929	19635760	1.21	cps
Terbium	159-1	20268544	20405680	21204487	20626237	2.45	cps
Terbium	159-2	7173036	7145553	6873923	7064171	2.34	cps
Thallium	203-1	967	980	960	969	1.05	cps
Thallium	205-1	2110	2220	2144	2158	2.61	cps
Tin	118-1	3931	3967	3794	3897	2.34	cps
Titanium	47-1	2050	1943	2050	2015	3.06	cps
Uranium	238-1	152249	156038	157205	155164	1.67	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-15	Instrumnet Name :	P8
Client Sample ID :	ME2999	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:23:19	DataFile Name :	077AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	110	113	100	108	6.44	cps
Ytterbium	172-1	147	190	160	166	13.41	cps
Ytterbium	172-2	60	53	67	60	11.12	cps
Ytterbium	176-1	1917	1930	1970	1939	1.43	cps
Ytterbium	176-2	283	287	310	293	4.95	cps
Yttrium	89-1	28088775	28979790	29248173	28772246	2.11	cps
Yttrium	89-2	2178127	2229531	2077033	2161564	3.59	cps
Zinc	66-2	697	760	770	742	5.36	cps
Zirconium	90-1	4367	3921	3817	4035	7.25	cps
Zirconium	91-1	910	783	860	851	7.50	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	747	770	743	753	1.93	cps
Antimony	121-1	983	957	1063	1001	5.55	cps
Arsenic	75-2	587	553	547	562	3.81	cps
Barium	135-1	283015	285335	291344	286564	1.50	cps
Barium	137-1	495071	503649	501945	500221	0.91	cps
Beryllium	9-1	722	810	689	740	8.45	cps
Bismuth	209-1	12042725	12077612	12111776	12077371	0.29	cps
Bismuth	209-2	5479943	5339460	5202348	5340584	2.60	cps
Bromine	81-1	137426	127009	116401	126945	8.28	cps
Cadmium	108-1	83	97	77	86	11.90	cps
Cadmium	106-1	8816	8679	8503	8666	1.81	cps
Cadmium	111-1	6210	6075	5965	6083	2.02	cps
Calcium	43-1	11561919	11679811	11750854	11664195	0.82	cps
Calcium	44-1	186085597	187613664	190320604	188006622	1.14	cps
Carbon	12-1	8977537	9838284	10140653	9652158	6.25	cps
Carbon	12-2	69758	70705	70990	70484	0.92	cps
Chlorine	35-1	2504718	2581131	2553689	2546513	1.52	cps
Chlorine	35-2	10247	9823	10084	10051	2.13	cps
Chromium	52-2	2334	2317	2357	2336	0.86	cps
Cobalt	59-2	10607	10497	10320	10475	1.38	cps
Copper	63-2	5241	5341	5428	5337	1.75	cps
Dysprosium	156-1	177	190	177	181	4.25	cps
Dysprosium	156-2	43	53	60	52	16.07	cps
Erbium	164-1	237	210	283	243	15.26	cps
Erbium	164-2	63	73	57	64	13.01	cps
Gadolinium	160-1	227	240	307	258	16.63	cps
Gadolinium	160-2	80	80	100	87	13.32	cps
Holmium	165-1	20520188	20567701	20664233	20584041	0.36	cps
Holmium	165-2	7693443	7625985	7589374	7636268	0.69	cps
Indium	115-1	16593653	16616115	16682409	16630726	0.28	cps
Indium	115-2	1785533	1734429	1713159	1744374	2.13	cps
Iron	54-2	100712	100513	100144	100456	0.29	cps
Iron	56-2	1889787	1931863	1950222	1923957	1.61	cps
Iron	57-2	46104	46322	45924	46117	0.43	cps
Krypton	83-1	280	327	277	294	9.49	cps
Lead	206-1	2930	2887	2914	2910	0.75	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2504	2554	2687	2581	3.67	cps
Lead	208-1	11459	11559	11539	11519	0.46	cps
Lithium	6-1	9655495	9747612	10027917	9810341	1.98	cps
Magnesium	24-2	23024753	23364395	23027329	23138825	0.84	cps
Manganese	55-2	260466	259361	262823	260883	0.68	cps
Molybdenum	94-1	58077	57819	59875	58590	1.91	cps
Molybdenum	95-1	96573	98822	99600	98332	1.60	cps
Molybdenum	96-1	104888	105860	106699	105816	0.86	cps
Molybdenum	97-1	60541	61756	60541	60946	1.15	cps
Molybdenum	98-1	155474	156578	160129	157394	1.55	cps
Neodymium	150-1	140	190	207	179	19.40	cps
Neodymium	150-2	50	50	47	49	3.93	cps
Nickel	60-2	7872	7852	7969	7898	0.79	cps
Phosphorus	31-2	133	117	160	137	15.99	cps
Potassium	39-2	509522	508543	519638	512568	1.20	cps
Rhodium	103-1	15183440	15291659	15364477	15279859	0.60	cps
Rhodium	103-2	6264131	6230788	6119908	6204943	1.22	cps
Scandium	45-1	12072953	12270324	12402418	12248565	1.35	cps
Scandium	45-2	249017	245445	239175	244546	2.04	cps
Selenium	82-1	167	107	127	133	22.91	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	20	23	20	21	9.11	cps
Silicon	28-1	96998472	98806009	99153999	98319493	1.18	cps
Silver	107-1	580	510	577	556	7.11	cps
Silver	109-1	287	283	300	290	3.04	cps
Sodium	23-2	17922098	17958284	17925574	17935318	0.11	cps
Strontium	86-1	37088914	37517277	37417298	37341163	0.60	cps
Strontium	88-1	320535842	322871035	323843695	322416857	0.53	cps
Sulfur	34-1	11865113	11974641	12041475	11960410	0.74	cps
Terbium	159-1	20792209	20779444	21181187	20917614	1.09	cps
Terbium	159-2	7414008	7406873	7175700	7332194	1.85	cps
Thallium	203-1	1010	967	923	967	4.48	cps
Thallium	205-1	2144	2234	2097	2158	3.22	cps
Tin	118-1	3957	3684	3784	3808	3.63	cps
Titanium	47-1	2304	2264	2434	2334	3.81	cps
Uranium	238-1	795397	807701	819588	807562	1.50	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-16	Instrumnet Name :	P8
Client Sample ID :	ME2997	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:26:35	DataFile Name :	078AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	173	160	157	163	5.40	cps
Ytterbium	172-1	210	220	210	213	2.71	cps
Ytterbium	172-2	80	63	50	64	23.32	cps
Ytterbium	176-1	2057	2047	2044	2049	0.34	cps
Ytterbium	176-2	360	310	347	339	7.64	cps
Yttrium	89-1	29890805	29834361	30069390	29931519	0.41	cps
Yttrium	89-2	2297431	2261175	2163112	2240573	3.10	cps
Zinc	66-2	1593	1620	1557	1590	2.00	cps
Zirconium	90-1	5611	5945	5835	5797	2.93	cps
Zirconium	91-1	1237	1310	1340	1296	4.10	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	477	503	523	501	4.67	cps
Antimony	121-1	787	680	770	746	7.70	cps
Arsenic	75-2	617	647	447	570	18.92	cps
Barium	135-1	293140	296282	290691	293371	0.96	cps
Barium	137-1	510939	509534	513852	511441	0.43	cps
Beryllium	9-1	631	651	604	629	3.79	cps
Bismuth	209-1	9434164	11888869	12119085	11147373	13.35	cps
Bismuth	209-2	5163595	5238183	5194542	5198773	0.72	cps
Bromine	81-1	69444	71732	72161	71112	2.05	cps
Cadmium	108-1	60	63	77	67	13.23	cps
Cadmium	106-1	6865	8740	8930	8178	13.95	cps
Cadmium	111-1	4877	6113	6290	5760	13.37	cps
Calcium	43-1	11932470	11867015	11919913	11906466	0.29	cps
Calcium	44-1	191220650	193365264	189620037	191401984	0.98	cps
Carbon	12-1	8963024	9809739	10022122	9598295	5.84	cps
Carbon	12-2	68374	69463	69329	69056	0.86	cps
Chlorine	35-1	2161163	2259053	2298400	2239539	3.16	cps
Chlorine	35-2	9633	9356	9360	9450	1.68	cps
Chromium	52-2	1850	1643	1607	1700	7.72	cps
Cobalt	59-2	9790	10110	10024	9975	1.66	cps
Copper	63-2	5064	5048	5064	5059	0.19	cps
Dysprosium	156-1	200	130	190	173	21.84	cps
Dysprosium	156-2	50	40	50	47	12.37	cps
Erbium	164-1	253	263	267	261	2.66	cps
Erbium	164-2	107	77	100	94	16.68	cps
Gadolinium	160-1	267	243	270	260	5.59	cps
Gadolinium	160-2	60	73	57	63	13.92	cps
Holmium	165-1	16088341	20654665	20680028	19141011	13.81	cps
Holmium	165-2	7392208	7523320	7532223	7482584	1.05	cps
Indium	115-1	12931005	16549804	16668231	15383013	13.81	cps
Indium	115-2	1674103	1730288	1704743	1703045	1.65	cps
Iron	54-2	101802	99708	100551	100687	1.05	cps
Iron	56-2	1896783	1949635	1930121	1925513	1.39	cps
Iron	57-2	47248	46108	46064	46473	1.44	cps
Krypton	83-1	283	267	300	283	5.88	cps
Lead	206-1	2757	2920	2827	2835	2.89	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2304	2494	2454	2417	4.15	cps
Lead	208-1	10895	11209	11062	11055	1.42	cps
Lithium	6-1	8154444	9634388	9935362	9241398	10.32	cps
Magnesium	24-2	22915700	23645905	23579585	23380397	1.73	cps
Manganese	55-2	260312	260086	256804	259068	0.76	cps
Molybdenum	94-1	59195	59185	59483	59288	0.29	cps
Molybdenum	95-1	99654	100839	99177	99890	0.86	cps
Molybdenum	96-1	105463	105416	107116	105998	0.91	cps
Molybdenum	97-1	62238	61874	62751	62288	0.71	cps
Molybdenum	98-1	158389	160331	158383	159034	0.71	cps
Neodymium	150-1	153	167	173	164	6.19	cps
Neodymium	150-2	30	53	23	36	44.31	cps
Nickel	60-2	6988	7445	7279	7237	3.19	cps
Phosphorus	31-2	120	103	110	111	7.55	cps
Potassium	39-2	520075	519264	517970	519103	0.20	cps
Rhodium	103-1	11618943	14713996	15107076	13813338	13.83	cps
Rhodium	103-2	5991665	6115795	6148105	6085189	1.36	cps
Scandium	45-1	9454511	12077949	12315599	11282686	14.07	cps
Scandium	45-2	235113	238063	241182	238119	1.27	cps
Selenium	82-1	43	170	47	87	83.30	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	27	3	10	13	90.16	cps
Silicon	28-1	98946765	101409632	99965462	100107286	1.24	cps
Silver	107-1	437	590	540	522	14.97	cps
Silver	109-1	340	270	317	309	11.54	cps
Sodium	23-2	18406852	18459116	18759942	18541970	1.03	cps
Strontium	86-1	39814923	39298404	39354384	39489237	0.72	cps
Strontium	88-1	341909482	342582095	338866922	341119499	0.58	cps
Sulfur	34-1	12362539	12253311	12209645	12275165	0.64	cps
Terbium	159-1	16577680	20442996	21349293	19456657	13.02	cps
Terbium	159-2	7069274	7129641	7238931	7145949	1.20	cps
Thallium	203-1	823	760	890	824	7.89	cps
Thallium	205-1	2217	2050	2030	2099	4.88	cps
Tin	118-1	5114	5171	5251	5179	1.33	cps
Titanium	47-1	2087	2064	2020	2057	1.64	cps
Uranium	238-1	811387	805217	809707	808770	0.39	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-17	Instrumnet Name :	P8
Client Sample ID :	ME2998	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:29:48	DataFile Name :	079AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	173	170	103	149	26.52	cps
Ytterbium	172-1	200	200	217	206	4.68	cps
Ytterbium	172-2	93	70	77	80	15.02	cps
Ytterbium	176-1	1653	1964	2010	1876	10.34	cps
Ytterbium	176-2	300	290	353	314	10.83	cps
Yttrium	89-1	23224387	29385835	30454480	27688234	14.09	cps
Yttrium	89-2	2167367	2224737	2234342	2208815	1.64	cps
Zinc	66-2	1087	1023	1113	1074	4.30	cps
Zirconium	90-1	4461	4861	4818	4713	4.66	cps
Zirconium	91-1	1067	1077	950	1031	6.83	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	847	767	760	791	6.10	cps
Antimony	121-1	257	313	297	289	10.08	cps
Arsenic	75-2	50	27	17	31	54.97	cps
Barium	135-1	84193	85917	84981	85030	1.01	cps
Barium	137-1	145563	147096	149486	147382	1.34	cps
Beryllium	9-1	646	666	631	648	2.71	cps
Bismuth	209-1	10144513	11652673	11801974	11199720	8.19	cps
Bismuth	209-2	5111656	5036220	5151216	5099697	1.15	cps
Bromine	81-1	129227	154069	172078	151791	14.17	cps
Cadmium	108-1	50	43	57	50	13.34	cps
Cadmium	106-1	7599	8770	8663	8344	7.76	cps
Cadmium	111-1	5358	6192	6081	5877	7.71	cps
Calcium	43-1	16398709	16775029	16806989	16660242	1.36	cps
Calcium	44-1	263214216	264801903	267694709	265236943	0.86	cps
Carbon	12-1	9757168	10495874	11023222	10425421	6.10	cps
Carbon	12-2	76608	74116	76407	75710	1.83	cps
Chlorine	35-1	14357529	16327247	17110438	15931738	8.90	cps
Chlorine	35-2	73237	72802	74447	73495	1.16	cps
Chromium	52-2	1667	1690	1547	1635	4.71	cps
Cobalt	59-2	453	427	493	458	7.33	cps
Copper	63-2	5081	5088	5468	5212	4.25	cps
Dysprosium	156-1	117	107	73	99	22.95	cps
Dysprosium	156-2	50	63	37	50	26.66	cps
Erbium	164-1	187	167	193	182	7.62	cps
Erbium	164-2	63	63	53	60	9.62	cps
Gadolinium	160-1	133	187	240	187	28.57	cps
Gadolinium	160-2	73	77	77	76	2.55	cps
Holmium	165-1	17304782	20375794	20120469	19267015	8.84	cps
Holmium	165-2	7332989	7401075	7385725	7373263	0.48	cps
Indium	115-1	14024659	16356831	16110966	15497485	8.27	cps
Indium	115-2	1652923	1647626	1648677	1649742	0.17	cps
Iron	54-2	333089	338141	340547	337259	1.13	cps
Iron	56-2	6460281	6450881	6432033	6447732	0.22	cps
Iron	57-2	158655	155986	155200	156614	1.16	cps
Krypton	83-1	260	263	317	280	11.36	cps
Lead	206-1	2517	2427	2487	2477	1.85	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2050	2090	2060	2067	1.01	cps
Lead	208-1	9528	9925	9648	9700	2.10	cps
Lithium	6-1	8565219	9328134	9503396	9132250	5.46	cps
Magnesium	24-2	25722927	25525910	25969748	25739529	0.86	cps
Manganese	55-2	78135	77797	79757	78563	1.33	cps
Molybdenum	94-1	44170	44431	44591	44397	0.48	cps
Molybdenum	95-1	73784	74143	75694	74541	1.36	cps
Molybdenum	96-1	79217	79117	80179	79504	0.74	cps
Molybdenum	97-1	44595	45829	47421	45948	3.08	cps
Molybdenum	98-1	116542	119865	119304	118570	1.50	cps
Neodymium	150-1	163	113	110	129	23.18	cps
Neodymium	150-2	33	37	50	40	22.05	cps
Nickel	60-2	1140	1123	1070	1111	3.29	cps
Phosphorus	31-2	167	123	123	138	18.16	cps
Potassium	39-2	774469	763459	776928	771619	0.93	cps
Rhodium	103-1	12716309	14831826	14523053	14023729	8.15	cps
Rhodium	103-2	5901351	6038240	5853323	5930971	1.62	cps
Scandium	45-1	10347427	12177624	12053374	11526142	8.87	cps
Scandium	45-2	235164	233009	238313	235495	1.13	cps
Selenium	82-1	50	190	143	128	55.79	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	17	17	13	43.29	cps
Silicon	28-1	140838568	142819108	144519571	142725749	1.29	cps
Silver	107-1	570	700	984	751	28.15	cps
Silver	109-1	347	383	457	396	14.16	cps
Sodium	23-2	64041224	63969089	64427204	64145839	0.38	cps
Strontium	86-1	118150642	118518262	120243242	118970715	0.94	cps
Strontium	88-1	1010807958	1036927958	1024039905	1023925274	1.28	cps
Sulfur	34-1	19944768	20526124	20736483	20402458	2.01	cps
Terbium	159-1	17585827	20646261	20296703	19509597	8.59	cps
Terbium	159-2	7188784	7083709	7163984	7145492	0.77	cps
Thallium	203-1	413	357	323	364	12.49	cps
Thallium	205-1	923	957	900	927	3.07	cps
Tin	118-1	4157	3887	4264	4103	4.73	cps
Titanium	47-1	2930	3097	2960	2996	2.97	cps
Uranium	238-1	31526	31736	31790	31684	0.44	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-18	Instrumnet Name :	P8
Client Sample ID :	ME29A0	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:33:05	DataFile Name :	080AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	503	527	477	502	4.98	cps
Ytterbium	172-1	113	143	123	127	12.06	cps
Ytterbium	172-2	83	53	73	70	21.82	cps
Ytterbium	176-1	1563	1840	1857	1753	9.40	cps
Ytterbium	176-2	267	283	343	298	13.54	cps
Yttrium	89-1	25317880	29511900	28594523	27808101	7.93	cps
Yttrium	89-2	2166757	2113605	2182309	2154224	1.67	cps
Zinc	66-2	917	933	963	938	2.52	cps
Zirconium	90-1	4121	4294	4271	4228	2.23	cps
Zirconium	91-1	940	920	887	916	2.94	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	24604	24594	24501	24566	0.23	cps
Antimony	121-1	470	590	523	528	11.39	cps
Arsenic	75-2	170	167	177	171	2.98	cps
Barium	135-1	65849	66763	66341	66318	0.69	cps
Barium	137-1	114816	116170	115491	115492	0.59	cps
Beryllium	9-1	605	655	566	609	7.31	cps
Bismuth	209-1	11785224	11700029	11783485	11756246	0.41	cps
Bismuth	209-2	5082384	5096300	5044460	5074381	0.53	cps
Bromine	81-1	141593	163866	177121	160860	11.16	cps
Cadmium	108-1	33	50	60	48	28.20	cps
Cadmium	106-1	8906	8606	8199	8571	4.14	cps
Cadmium	111-1	6291	6109	5767	6056	4.39	cps
Calcium	43-1	27551340	27780782	28490825	27940982	1.75	cps
Calcium	44-1	441310793	446634447	453979753	447308331	1.42	cps
Carbon	12-1	9466907	10328555	10660493	10151985	6.07	cps
Carbon	12-2	74414	74799	76551	75255	1.51	cps
Chlorine	35-1	6023169	6533670	6690027	6415622	5.44	cps
Chlorine	35-2	27563	27823	27353	27580	0.86	cps
Chromium	52-2	4671	4631	4697	4666	0.72	cps
Cobalt	59-2	3484	3547	3584	3538	1.43	cps
Copper	63-2	8006	8169	8156	8110	1.12	cps
Dysprosium	156-1	1550	1533	1427	1503	4.45	cps
Dysprosium	156-2	487	500	493	493	1.35	cps
Erbium	164-1	1210	1307	1220	1246	4.27	cps
Erbium	164-2	433	490	437	453	7.01	cps
Gadolinium	160-1	1420	1573	1567	1520	5.70	cps
Gadolinium	160-2	723	680	663	689	4.50	cps
Holmium	165-1	20219627	20222143	20370211	20270661	0.43	cps
Holmium	165-2	7240834	7380294	7302714	7307947	0.96	cps
Indium	115-1	16334223	16279574	16268028	16293942	0.22	cps
Indium	115-2	1634280	1662862	1616902	1638015	1.42	cps
Iron	54-2	738710	738665	740935	739437	0.18	cps
Iron	56-2	13893257	14205928	14171832	14090339	1.22	cps
Iron	57-2	335779	340279	344932	340330	1.34	cps
Krypton	83-1	267	300	287	284	5.90	cps
Lead	206-1	5648	5695	5681	5675	0.42	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4498	4654	4884	4679	4.16	cps
Lead	208-1	21410	21841	22418	21890	2.31	cps
Lithium	6-1	9632176	9554364	9417007	9534515	1.14	cps
Magnesium	24-2	37649950	38644692	37700009	37998217	1.47	cps
Manganese	55-2	192206	198899	197980	196362	1.85	cps
Molybdenum	94-1	24331	25186	25016	24844	1.82	cps
Molybdenum	95-1	34934	34576	34506	34672	0.66	cps
Molybdenum	96-1	36384	37718	38012	37371	2.32	cps
Molybdenum	97-1	21377	21550	21363	21430	0.49	cps
Molybdenum	98-1	54811	56544	56273	55876	1.67	cps
Neodymium	150-1	2077	2104	2224	2135	3.66	cps
Neodymium	150-2	543	543	520	536	2.51	cps
Nickel	60-2	3667	3354	3400	3474	4.87	cps
Phosphorus	31-2	277	280	247	268	6.86	cps
Potassium	39-2	1003402	1024770	1015293	1014488	1.06	cps
Rhodium	103-1	14867940	14675311	14787284	14776845	0.65	cps
Rhodium	103-2	5914670	5981636	5883848	5926718	0.84	cps
Scandium	45-1	12103113	12306168	12104798	12171360	0.96	cps
Scandium	45-2	234250	236049	238283	236194	0.86	cps
Selenium	82-1	113	113	193	140	32.99	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	10	10	10	10	0.00	cps
Silicon	28-1	115260178	116546012	116315742	116040644	0.59	cps
Silver	107-1	537	580	633	583	8.30	cps
Silver	109-1	310	297	350	319	8.70	cps
Sodium	23-2	28124313	28247214	28564048	28311858	0.80	cps
Strontium	86-1	74068021	74804034	74457001	74443018	0.49	cps
Strontium	88-1	632271577	640899404	635599257	636256746	0.68	cps
Sulfur	34-1	43434924	43700996	44253458	43796459	0.95	cps
Terbium	159-1	20805120	20791974	20559135	20718743	0.67	cps
Terbium	159-2	7079457	7020806	7170371	7090211	1.06	cps
Thallium	203-1	567	613	553	578	5.45	cps
Thallium	205-1	1430	1440	1247	1372	7.93	cps
Tin	118-1	6842	7189	7039	7023	2.48	cps
Titanium	47-1	23824	24100	24675	24200	1.79	cps
Uranium	238-1	20103	21128	20584	20605	2.49	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-19	Instrumnet Name :	P8
Client Sample ID :	ME29A1	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:36:18	DataFile Name :	081AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2737	2847	2984	2856	4.33	cps
Ytterbium	172-1	433	427	440	433	1.54	cps
Ytterbium	172-2	197	177	190	188	5.42	cps
Ytterbium	176-1	2100	2114	2147	2120	1.13	cps
Ytterbium	176-2	443	400	420	421	5.15	cps
Yttrium	89-1	29100710	29376425	28988800	29155311	0.68	cps
Yttrium	89-2	2165484	2151834	2163395	2160237	0.34	cps
Zinc	66-2	1337	1250	1370	1319	4.70	cps
Zirconium	90-1	12392	12903	12839	12711	2.19	cps
Zirconium	91-1	2844	2627	2887	2786	5.00	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	457	503	492	6.40	cps
Antimony	121-1	480	617	577	558	12.60	cps
Arsenic	75-2	97	87	67	83	18.33	cps
Barium	135-1	185391	189344	192366	189034	1.85	cps
Barium	137-1	328183	338048	336168	334133	1.57	cps
Beryllium	9-1	539	522	499	520	3.87	cps
Bismuth	209-1	11264869	11544259	11679292	11496140	1.84	cps
Bismuth	209-2	5222355	5075525	5248748	5182209	1.80	cps
Bromine	81-1	152749	181435	197396	177193	12.77	cps
Cadmium	108-1	23	20	27	23	14.29	cps
Cadmium	106-1	8386	8666	8446	8499	1.74	cps
Cadmium	111-1	5881	6072	5910	5954	1.73	cps
Calcium	43-1	19837742	20215363	20065998	20039701	0.95	cps
Calcium	44-1	319972602	321569322	318937129	320159684	0.41	cps
Carbon	12-1	9820980	10578452	11351029	10583487	7.23	cps
Carbon	12-2	77865	78893	79175	78644	0.88	cps
Chlorine	35-1	13164906	14313520	14750511	14076312	5.82	cps
Chlorine	35-2	62066	62374	63060	62500	0.81	cps
Chromium	52-2	2214	2214	2284	2237	1.81	cps
Cobalt	59-2	533	520	493	516	3.95	cps
Copper	63-2	5374	5341	5364	5360	0.32	cps
Dysprosium	156-1	153	130	170	151	13.30	cps
Dysprosium	156-2	53	37	30	40	30.04	cps
Erbium	164-1	230	220	213	221	3.79	cps
Erbium	164-2	87	83	33	68	44.08	cps
Gadolinium	160-1	247	240	220	236	5.89	cps
Gadolinium	160-2	50	80	57	62	25.32	cps
Holmium	165-1	19109030	19470456	20423895	19667794	3.45	cps
Holmium	165-2	7473484	7394684	7452075	7440081	0.55	cps
Indium	115-1	15479239	15847000	16069713	15798651	1.89	cps
Indium	115-2	1675454	1666943	1699635	1680677	1.01	cps
Iron	54-2	30189	29106	29143	29479	2.08	cps
Iron	56-2	535011	533664	536166	534947	0.23	cps
Iron	57-2	14157	13873	14688	14239	2.90	cps
Krypton	83-1	280	283	277	280	1.19	cps
Lead	206-1	2277	2270	2350	2299	1.93	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1840	1974	1997	1937	4.36	cps
Lead	208-1	8848	8981	9175	9001	1.83	cps
Lithium	6-1	9267798	9426585	9620115	9438166	1.87	cps
Magnesium	24-2	24983750	23863157	24015748	24287552	2.50	cps
Manganese	55-2	227271	224968	227406	226548	0.60	cps
Molybdenum	94-1	3050	2977	3124	3050	2.40	cps
Molybdenum	95-1	2297	2270	2360	2309	2.00	cps
Molybdenum	96-1	2504	2807	2584	2631	5.98	cps
Molybdenum	97-1	1310	1337	1437	1361	4.91	cps
Molybdenum	98-1	3581	3300	3444	3442	4.07	cps
Neodymium	150-1	137	157	150	148	6.89	cps
Neodymium	150-2	30	43	40	38	18.36	cps
Nickel	60-2	1290	1167	1370	1276	8.03	cps
Phosphorus	31-2	237	237	240	238	0.81	cps
Potassium	39-2	1000537	990174	998940	996551	0.56	cps
Rhodium	103-1	14185308	14286854	14532368	14334843	1.24	cps
Rhodium	103-2	5953667	5921164	5928060	5934297	0.29	cps
Scandium	45-1	11549304	11931104	11967243	11815884	1.96	cps
Scandium	45-2	238912	234594	241263	238256	1.42	cps
Selenium	82-1	93	160	197	150	34.93	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	20	10	13	43.30	cps
Silicon	28-1	86586255	84238802	85163845	85329634	1.39	cps
Silver	107-1	470	537	600	536	12.14	cps
Silver	109-1	313	360	283	319	12.12	cps
Sodium	23-2	43079428	41441249	42403650	42308109	1.95	cps
Strontium	86-1	82785264	85615765	85772849	84724626	1.98	cps
Strontium	88-1	733554549	746185696	746145429	741961891	0.98	cps
Sulfur	34-1	25981417	26086102	26038329	26035283	0.20	cps
Terbium	159-1	19743500	20107836	20438572	20096636	1.73	cps
Terbium	159-2	7238858	7081227	7231449	7183845	1.24	cps
Thallium	203-1	287	290	350	309	11.54	cps
Thallium	205-1	613	717	723	684	9.01	cps
Tin	118-1	5978	5958	5971	5969	0.17	cps
Titanium	47-1	2034	2170	2017	2074	4.06	cps
Uranium	238-1	1793	1810	1884	1829	2.62	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-20	Instrumnet Name :	P8
Client Sample ID :	ME29A2	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:39:34	DataFile Name :	082AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	440	467	427	444	4.58	cps
Ytterbium	172-1	173	197	193	188	6.72	cps
Ytterbium	172-2	87	57	77	73	20.83	cps
Ytterbium	176-1	1960	1893	1903	1919	1.87	cps
Ytterbium	176-2	280	307	320	302	6.74	cps
Yttrium	89-1	28525804	28856110	29104772	28828895	1.01	cps
Yttrium	89-2	2194424	2150827	2188930	2178060	1.09	cps
Zinc	66-2	410	420	347	392	10.14	cps
Zirconium	90-1	4584	4918	5168	4890	5.99	cps
Zirconium	91-1	1043	1047	1097	1062	2.81	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7432	7462	7332	7409	0.92	cps
Antimony	121-1	4237	4377	4411	4342	2.12	cps
Arsenic	75-2	110	127	100	112	12.01	cps
Barium	135-1	40892	40490	41881	41088	1.74	cps
Barium	137-1	70151	71052	71662	70955	1.07	cps
Beryllium	9-1	595	577	561	578	2.92	cps
Bismuth	209-1	12173282	11841766	11283006	11766018	3.82	cps
Bismuth	209-2	5246442	5127444	5050491	5141459	1.92	cps
Bromine	81-1	109685	114035	118697	114139	3.95	cps
Cadmium	108-1	67	53	30	50	37.12	cps
Cadmium	106-1	9100	8536	8029	8555	6.26	cps
Cadmium	111-1	6567	6198	5869	6211	5.62	cps
Calcium	43-1	29287466	29812592	29683008	29594355	0.92	cps
Calcium	44-1	468962300	482318473	479867193	477049322	1.49	cps
Carbon	12-1	9262891	9898322	10456882	9872698	6.05	cps
Carbon	12-2	69172	70083	70628	69961	1.05	cps
Chlorine	35-1	3505740	3575329	3572229	3551099	1.11	cps
Chlorine	35-2	13576	14351	14284	14070	3.05	cps
Chromium	52-2	2724	2567	2617	2636	3.04	cps
Cobalt	59-2	2387	2397	2294	2359	2.42	cps
Copper	63-2	13460	13597	13053	13370	2.12	cps
Dysprosium	156-1	583	520	453	519	12.53	cps
Dysprosium	156-2	233	163	187	194	18.33	cps
Erbium	164-1	590	507	570	556	7.83	cps
Erbium	164-2	193	160	187	180	9.80	cps
Gadolinium	160-1	600	587	537	574	5.81	cps
Gadolinium	160-2	227	297	247	257	14.05	cps
Holmium	165-1	20954913	20290814	19166957	20137561	4.49	cps
Holmium	165-2	7488852	7260044	7313741	7354212	1.63	cps
Indium	115-1	16511543	16028882	15785386	16108604	2.29	cps
Indium	115-2	1718875	1664346	1654109	1679110	2.07	cps
Iron	54-2	440283	438252	435284	437939	0.57	cps
Iron	56-2	8344682	8457960	8333163	8378602	0.82	cps
Iron	57-2	202578	201962	200600	201714	0.50	cps
Krypton	83-1	333	290	277	300	9.88	cps
Lead	206-1	6922	6418	6608	6650	3.82	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5378	5248	5498	5375	2.33	cps
Lead	208-1	25710	24596	25677	25328	2.50	cps
Lithium	6-1	9734309	9290094	9124922	9383108	3.36	cps
Magnesium	24-2	26496858	26296005	26660865	26484576	0.69	cps
Manganese	55-2	184060	184814	182825	183900	0.55	cps
Molybdenum	94-1	15966	16143	16523	16211	1.76	cps
Molybdenum	95-1	24261	25079	24695	24679	1.66	cps
Molybdenum	96-1	26402	26899	26943	26748	1.12	cps
Molybdenum	97-1	15288	15919	15612	15607	2.02	cps
Molybdenum	98-1	38948	39349	39874	39390	1.18	cps
Neodymium	150-1	730	730	727	729	0.26	cps
Neodymium	150-2	217	120	180	172	28.34	cps
Nickel	60-2	3621	3677	3497	3598	2.56	cps
Phosphorus	31-2	400	393	443	412	6.59	cps
Potassium	39-2	675246	676220	681652	677706	0.51	cps
Rhodium	103-1	15055564	14684105	13972397	14570689	3.78	cps
Rhodium	103-2	6086933	5958567	5930125	5991875	1.39	cps
Scandium	45-1	12258997	11955763	11278209	11830990	4.24	cps
Scandium	45-2	241166	234852	232552	236190	1.89	cps
Selenium	82-1	43	123	143	103	51.20	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	3	7	20	10	88.20	cps
Silicon	28-1	129205998	132161748	132848428	131405391	1.47	cps
Silver	107-1	527	610	483	540	11.92	cps
Silver	109-1	270	257	317	281	11.21	cps
Sodium	23-2	12328926	12287984	12422217	12346376	0.56	cps
Strontium	86-1	91360599	92453615	93199439	92337884	1.00	cps
Strontium	88-1	792058468	797498441	808707988	799421633	1.06	cps
Sulfur	34-1	38749437	39165587	39266520	39060515	0.70	cps
Terbium	159-1	21538506	20499479	19605204	20547730	4.71	cps
Terbium	159-2	7262234	7068745	7018543	7116508	1.81	cps
Thallium	203-1	290	373	313	326	13.20	cps
Thallium	205-1	810	927	810	849	7.94	cps
Tin	118-1	4754	4287	4417	4486	5.37	cps
Titanium	47-1	8262	8232	8376	8290	0.91	cps
Uranium	238-1	10444	10641	10925	10670	2.26	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-21	Instrumnet Name :	P8
Client Sample ID :	ME29A3	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:42:47	DataFile Name :	083AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1017	993	917	976	5.36	cps
Ytterbium	172-1	223	240	237	233	3.78	cps
Ytterbium	172-2	93	80	133	102	27.16	cps
Ytterbium	176-1	2070	2007	1807	1961	7.01	cps
Ytterbium	176-2	350	293	323	322	8.80	cps
Yttrium	89-1	29743030	28938590	28124660	28935427	2.80	cps
Yttrium	89-2	2218145	2131544	2132316	2160668	2.30	cps
Zinc	66-2	3534	3434	3427	3465	1.72	cps
Zirconium	90-1	4597	4881	4761	4746	3.00	cps
Zirconium	91-1	1090	1073	1093	1086	0.99	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1113	1037	1107	1086	3.91	cps
Antimony	121-1	24482	25023	25200	24902	1.50	cps
Arsenic	75-2	37	33	60	43	33.53	cps
Barium	135-1	139356	142480	144057	141964	1.69	cps
Barium	137-1	245417	251805	252392	249871	1.55	cps
Beryllium	9-1	532	480	470	494	6.79	cps
Bismuth	209-1	11316564	12023414	11782312	11707430	3.07	cps
Bismuth	209-2	5225430	5300786	5332857	5286357	1.04	cps
Bromine	81-1	69733	73511	72318	71854	2.69	cps
Cadmium	108-1	23	27	23	24	7.89	cps
Cadmium	106-1	8446	8876	8720	8681	2.51	cps
Cadmium	111-1	5939	6225	6141	6102	2.40	cps
Calcium	43-1	1884511	1875837	1952999	1904449	2.22	cps
Calcium	44-1	30557733	30110620	31588420	30752258	2.46	cps
Carbon	12-1	93884609	102563328	102556588	99668175	5.03	cps
Carbon	12-2	640591	636589	628693	635291	0.95	cps
Chlorine	35-1	7784291	8348569	8886512	8339790	6.61	cps
Chlorine	35-2	36630	37047	37144	36940	0.74	cps
Chromium	52-2	1577	1790	1650	1672	6.49	cps
Cobalt	59-2	747	697	707	717	3.69	cps
Copper	63-2	18355	18632	18365	18451	0.85	cps
Dysprosium	156-1	300	280	257	279	7.78	cps
Dysprosium	156-2	120	103	97	107	11.27	cps
Erbium	164-1	107	140	137	128	14.37	cps
Erbium	164-2	37	40	60	46	27.70	cps
Gadolinium	160-1	387	403	323	371	11.37	cps
Gadolinium	160-2	157	150	120	142	13.73	cps
Holmium	165-1	18773243	20178102	19447572	19466306	3.61	cps
Holmium	165-2	7397805	7477639	7473299	7449581	0.60	cps
Indium	115-1	15158099	16428659	15964111	15850290	4.06	cps
Indium	115-2	1673618	1707413	1694127	1691719	1.01	cps
Iron	54-2	1337	1200	1153	1230	7.75	cps
Iron	56-2	17668	18175	17958	17934	1.42	cps
Iron	57-2	463	553	527	514	8.99	cps
Krypton	83-1	280	280	297	286	3.37	cps
Lead	206-1	2337	2304	2384	2341	1.72	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1974	1977	1967	1972	0.26	cps
Lead	208-1	9028	8895	9271	9065	2.11	cps
Lithium	6-1	9025522	9739912	9654169	9473201	4.12	cps
Magnesium	24-2	2997170	3009583	3049384	3018712	0.90	cps
Manganese	55-2	10327	10601	10517	10482	1.34	cps
Molybdenum	94-1	3050	2734	3004	2929	5.84	cps
Molybdenum	95-1	3787	4121	4064	3991	4.47	cps
Molybdenum	96-1	4291	4688	4444	4474	4.47	cps
Molybdenum	97-1	2370	2580	2577	2509	4.79	cps
Molybdenum	98-1	6325	6472	6505	6434	1.49	cps
Neodymium	150-1	37	43	37	39	9.89	cps
Neodymium	150-2	7	0	3	3	100.05	cps
Nickel	60-2	2914	2927	2944	2928	0.51	cps
Phosphorus	31-2	1037	963	883	961	7.98	cps
Potassium	39-2	327170	324741	324136	325349	0.49	cps
Rhodium	103-1	14261654	15430605	14870286	14854182	3.94	cps
Rhodium	103-2	6210975	6271990	6237930	6240298	0.49	cps
Scandium	45-1	11187994	11749523	11621681	11519733	2.55	cps
Scandium	45-2	233876	237677	236485	236013	0.82	cps
Selenium	82-1	77	83	3	54	81.52	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	10	13	9	57.30	cps
Silicon	28-1	35969396	35901414	36901883	36257564	1.54	cps
Silver	107-1	573	627	623	608	4.92	cps
Silver	109-1	477	353	450	427	15.21	cps
Sodium	23-2	25772894	26326675	25904749	26001439	1.11	cps
Strontium	86-1	943477	964332	974994	960934	1.67	cps
Strontium	88-1	8468859	8644830	8677371	8597020	1.30	cps
Sulfur	34-1	2253545	2241879	2265584	2253669	0.53	cps
Terbium	159-1	19456717	21100788	20103484	20220330	4.10	cps
Terbium	159-2	7067376	7201941	7167141	7145486	0.98	cps
Thallium	203-1	483	430	497	470	7.51	cps
Thallium	205-1	933	1110	1163	1069	11.26	cps
Tin	118-1	3297	3400	3400	3366	1.77	cps
Titanium	47-1	1330	1410	1397	1379	3.11	cps
Uranium	238-1	540	653	680	624	11.90	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-01	Instrumnet Name :	P8
Client Sample ID :	WATER-01	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:46:03	DataFile Name :	084AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	303	320	310	311	2.70	cps
Ytterbium	172-1	247	193	223	221	12.09	cps
Ytterbium	172-2	113	90	77	93	19.89	cps
Ytterbium	176-1	1920	2024	1924	1956	3.00	cps
Ytterbium	176-2	340	287	357	328	11.16	cps
Yttrium	89-1	27264894	29316066	28267485	28282815	3.63	cps
Yttrium	89-2	2116684	2170336	2152059	2146359	1.27	cps
Zinc	66-2	2964	2780	2920	2888	3.32	cps
Zirconium	90-1	1537	1577	1413	1509	5.64	cps
Zirconium	91-1	323	290	357	323	10.31	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1930	1887	1860	1892	1.87	cps
Antimony	121-1	2804	2950	3007	2920	3.59	cps
Arsenic	75-2	67	57	60	61	8.33	cps
Barium	135-1	156429	160924	162646	159999	2.01	cps
Barium	137-1	275055	278146	283220	278807	1.48	cps
Beryllium	9-1	509	544	492	515	5.08	cps
Bismuth	209-1	12084960	7301749	60380	6482363	93.39	cps
Bismuth	209-2	5335360	5362641	5286969	5328323	0.72	cps
Bromine	81-1	90460	97328	96704	94831	4.00	cps
Cadmium	108-1	20	30	20	23	24.74	cps
Cadmium	106-1	9043	5588	60	4897	92.53	cps
Cadmium	111-1	6383	3967	65	3472	91.83	cps
Calcium	43-1	1851169	1907824	1954297	1904430	2.71	cps
Calcium	44-1	29983826	30905061	30882454	30590447	1.72	cps
Carbon	12-1	91503245	97541475	98594042	95879587	3.99	cps
Carbon	12-2	609738	609633	611149	610173	0.14	cps
Chlorine	35-1	7930488	8707740	8916077	8518102	6.10	cps
Chlorine	35-2	37976	37559	37452	37662	0.74	cps
Chromium	52-2	1407	1470	1563	1480	5.33	cps
Cobalt	59-2	1160	1340	1347	1282	8.26	cps
Copper	63-2	464771	458417	462393	461860	0.70	cps
Dysprosium	156-1	267	250	290	269	7.47	cps
Dysprosium	156-2	113	87	130	110	19.87	cps
Erbium	164-1	163	110	23	99	71.46	cps
Erbium	164-2	33	50	43	42	19.87	cps
Gadolinium	160-1	450	393	307	383	18.83	cps
Gadolinium	160-2	187	173	143	168	13.23	cps
Holmium	165-1	20193437	12512704	83992	10930044	92.84	cps
Holmium	165-2	7385854	7360123	7415224	7387067	0.37	cps
Indium	115-1	16607524	10319469	72390	8999794	92.74	cps
Indium	115-2	1696197	1682709	1664429	1681111	0.95	cps
Iron	54-2	2134	2037	1953	2041	4.41	cps
Iron	56-2	33239	33239	33379	33286	0.24	cps
Iron	57-2	843	877	960	893	6.73	cps
Krypton	83-1	347	363	453	388	14.80	cps
Lead	206-1	4031	3917	3981	3976	1.43	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3511	3484	3350	3448	2.49	cps
Lead	208-1	15937	15731	15480	15716	1.46	cps
Lithium	6-1	9795637	6025612	227331	5349527	90.10	cps
Magnesium	24-2	3068373	3109640	3092040	3090018	0.67	cps
Manganese	55-2	16423	16253	16129	16268	0.91	cps
Molybdenum	94-1	2977	2987	2897	2954	1.67	cps
Molybdenum	95-1	4071	4151	4301	4174	2.80	cps
Molybdenum	96-1	4514	4417	4544	4492	1.47	cps
Molybdenum	97-1	2474	2927	2580	2660	8.91	cps
Molybdenum	98-1	6562	6578	6482	6540	0.79	cps
Neodymium	150-1	37	27	20	28	30.20	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1820	1680	1907	1802	6.35	cps
Phosphorus	31-2	993	907	970	957	4.69	cps
Potassium	39-2	333474	331538	334721	333244	0.48	cps
Rhodium	103-1	15332309	9533143	69769	8311740	92.69	cps
Rhodium	103-2	6247364	6178945	6190409	6205573	0.59	cps
Scandium	45-1	11864748	7653591	75356	6531232	91.47	cps
Scandium	45-2	234864	236414	235087	235455	0.36	cps
Selenium	82-1	0	70	93	54	89.21	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	10	7	10	9	21.63	cps
Silicon	28-1	35723382	36763201	36788104	36424896	1.67	cps
Silver	107-1	647	487	430	521	21.56	cps
Silver	109-1	387	477	430	431	10.44	cps
Sodium	23-2	26850467	26591170	26436009	26625882	0.79	cps
Strontium	86-1	961173	991366	1000962	984500	2.11	cps
Strontium	88-1	8727501	9033502	9137983	8966329	2.38	cps
Sulfur	34-1	2229426	2257103	2213705	2233412	0.98	cps
Terbium	159-1	20928964	12548791	87868	11188541	93.73	cps
Terbium	159-2	7169057	7188857	7059913	7139276	0.97	cps
Thallium	203-1	440	440	473	451	4.27	cps
Thallium	205-1	1030	1080	1037	1049	2.59	cps
Tin	118-1	3571	3631	3587	3596	0.86	cps
Titanium	47-1	1543	1253	1327	1375	10.97	cps
Uranium	238-1	1780	2017	2077	1958	8.01	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02RE	Instrumnet Name :	P8
Client Sample ID :	WATER-02RE	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:49:18	DataFile Name :	085AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	297	287	270	284	4.73	cps
Ytterbium	172-1	203	147	113	154	29.46	cps
Ytterbium	172-2	90	90	103	94	8.15	cps
Ytterbium	176-1	2090	1343	90	1175	86.05	cps
Ytterbium	176-2	307	290	347	314	9.26	cps
Yttrium	89-1	29374782	18673498	132856	16060379	92.12	cps
Yttrium	89-2	2158010	2156187	2093625	2135941	1.72	cps
Zinc	66-2	8696	9013	9080	8930	2.30	cps
Zirconium	90-1	1753	1807	1127	1562	24.21	cps
Zirconium	91-1	330	330	290	317	7.29	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1827	1757	1790	1791	1.95	cps
Antimony	121-1	2727	2834	2840	2800	2.27	cps
Arsenic	75-2	53	60	40	51	19.92	cps
Barium	135-1	156088	159504	160819	158804	1.54	cps
Barium	137-1	269291	277593	279283	275389	1.94	cps
Beryllium	9-1	472	460	467	467	1.35	cps
Bismuth	209-1	12351607	12023493	12109899	12161666	1.40	cps
Bismuth	209-2	5264951	5231481	5230732	5242388	0.37	cps
Bromine	81-1	82397	91244	92774	88805	6.31	cps
Cadmium	108-1	27	50	37	38	30.98	cps
Cadmium	106-1	8923	8713	8666	8767	1.56	cps
Cadmium	111-1	6284	6127	6091	6167	1.67	cps
Calcium	43-1	1859494	1878309	1889945	1875916	0.82	cps
Calcium	44-1	29705809	29841103	30499078	30015330	1.41	cps
Carbon	12-1	86804672	93361249	95002839	91722920	4.73	cps
Carbon	12-2	597079	592003	591631	593571	0.51	cps
Chlorine	35-1	7875474	8551370	8953847	8460230	6.44	cps
Chlorine	35-2	37786	38033	38448	38089	0.88	cps
Chromium	52-2	1497	1537	1480	1505	1.94	cps
Cobalt	59-2	1317	1103	1120	1180	10.06	cps
Copper	63-2	461505	458641	458860	459668	0.35	cps
Dysprosium	156-1	277	273	263	271	2.56	cps
Dysprosium	156-2	130	117	130	126	6.13	cps
Erbium	164-1	160	133	163	152	10.80	cps
Erbium	164-2	47	40	43	43	7.70	cps
Gadolinium	160-1	390	373	373	379	2.54	cps
Gadolinium	160-2	193	190	147	177	14.74	cps
Holmium	165-1	20662672	20035084	20213420	20303725	1.59	cps
Holmium	165-2	7336092	7327539	7339749	7334460	0.09	cps
Indium	115-1	16488608	16329727	16407831	16408722	0.48	cps
Indium	115-2	1673699	1661038	1636860	1657199	1.13	cps
Iron	54-2	1990	1960	2007	1986	1.19	cps
Iron	56-2	33376	33209	32962	33182	0.63	cps
Iron	57-2	947	890	873	903	4.26	cps
Krypton	83-1	267	257	207	243	13.21	cps
Lead	206-1	4154	4364	4061	4193	3.71	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3367	3424	3597	3463	3.46	cps
Lead	208-1	15297	16411	15861	15856	3.51	cps
Lithium	6-1	9728602	9649287	9744429	9707439	0.53	cps
Magnesium	24-2	3102057	3066755	3075000	3081271	0.60	cps
Manganese	55-2	16396	15722	16844	16321	3.46	cps
Molybdenum	94-1	2797	2920	3044	2920	4.22	cps
Molybdenum	95-1	3821	3987	4124	3977	3.82	cps
Molybdenum	96-1	4284	4291	4597	4391	4.08	cps
Molybdenum	97-1	2497	2757	2694	2649	5.12	cps
Molybdenum	98-1	6572	6578	6535	6562	0.36	cps
Neodymium	150-1	50	37	27	38	30.98	cps
Neodymium	150-2	3	3	13	7	86.65	cps
Nickel	60-2	1810	1903	1823	1846	2.74	cps
Phosphorus	31-2	890	943	933	922	3.07	cps
Potassium	39-2	331614	330602	326892	329703	0.75	cps
Rhodium	103-1	15647739	15306900	15048909	15334516	1.96	cps
Rhodium	103-2	6145883	6113800	6242288	6167323	1.08	cps
Scandium	45-1	12140643	11715811	11814883	11890446	1.87	cps
Scandium	45-2	229893	233623	231813	231776	0.80	cps
Selenium	82-1	70	157	183	137	43.36	cps
Selenium	77-2	7	0	3	3	100.05	cps
Selenium	78-2	17	17	20	18	10.81	cps
Silicon	28-1	35406234	35795679	36343641	35848518	1.31	cps
Silver	107-1	517	537	563	539	4.34	cps
Silver	109-1	367	377	403	382	4.96	cps
Sodium	23-2	26287520	26361933	26367920	26339124	0.17	cps
Strontium	86-1	956042	983445	984692	974726	1.66	cps
Strontium	88-1	8553616	8763362	8772274	8696417	1.42	cps
Sulfur	34-1	2229974	2209693	2181002	2206890	1.11	cps
Terbium	159-1	20709181	20526659	20578772	20604871	0.46	cps
Terbium	159-2	7131028	6929217	7009036	7023093	1.45	cps
Thallium	203-1	437	450	420	436	3.45	cps
Thallium	205-1	1077	1137	1153	1122	3.59	cps
Tin	118-1	3530	3927	3827	3762	5.49	cps
Titanium	47-1	1450	1297	1440	1396	6.15	cps
Uranium	238-1	1937	2060	2197	2065	6.30	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	WATER-02	Instrumnet Name :	P8
Client Sample ID :	WATER-02	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:52:37	DataFile Name :	086AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	297	340	277	304	10.64	cps
Ytterbium	172-1	257	290	207	251	16.70	cps
Ytterbium	172-2	97	83	80	87	10.18	cps
Ytterbium	176-1	2044	2000	1857	1967	4.97	cps
Ytterbium	176-2	357	303	347	336	8.45	cps
Yttrium	89-1	29037190	29003786	28877180	28972718	0.29	cps
Yttrium	89-2	2143627	2134157	2110249	2129344	0.81	cps
Zinc	66-2	8840	8726	8486	8684	2.08	cps
Zirconium	90-1	1700	1577	1737	1671	5.02	cps
Zirconium	91-1	320	300	370	330	10.93	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3807617	3843368	3858931	3836639	0.69	cps
Antimony	121-1	8641902	8697132	8669926	8669653	0.32	cps
Arsenic	75-2	181067	179609	182424	181033	0.78	cps
Barium	135-1	10362241	10565981	10549416	10492546	1.08	cps
Barium	137-1	17968265	18135305	17986543	18030038	0.51	cps
Beryllium	9-1	3247016	3197423	3169378	3204606	1.23	cps
Bismuth	209-1	11425115	11556220	11160109	11380481	1.77	cps
Bismuth	209-2	4896604	4872044	4904686	4891111	0.35	cps
Bromine	81-1	11848	11999	11622	11823	1.61	cps
Cadmium	108-1	170876	171472	167255	169867	1.34	cps
Cadmium	106-1	249503	250122	248675	249433	0.29	cps
Cadmium	111-1	2117150	2122150	2144341	2127880	0.68	cps
Calcium	43-1	14273397	14596220	14458687	14442768	1.12	cps
Calcium	44-1	236417383	237908136	238938936	237754819	0.53	cps
Carbon	12-1	6369145	6562986	6601598	6511243	1.91	cps
Carbon	12-2	51108	51302	52202	51538	1.13	cps
Chlorine	35-1	1211747	1155363	1074038	1147049	6.04	cps
Chlorine	35-2	3884	3794	3804	3827	1.29	cps
Chromium	52-2	2079602	2105430	2121033	2102022	1.00	cps
Cobalt	59-2	3847259	3855023	3826231	3842838	0.39	cps
Copper	63-2	28102955	27837473	28342267	28094232	0.90	cps
Dysprosium	156-1	440	460	547	482	11.76	cps
Dysprosium	156-2	153	100	103	119	25.13	cps
Erbium	164-1	430	420	470	440	6.01	cps
Erbium	164-2	163	160	217	180	17.67	cps
Gadolinium	160-1	453	393	423	423	7.09	cps
Gadolinium	160-2	120	120	147	129	11.95	cps
Holmium	165-1	19858605	20087465	20199700	20048590	0.87	cps
Holmium	165-2	7214807	7210762	7265697	7230422	0.42	cps
Indium	115-1	15491835	15943295	15379631	15604920	1.91	cps
Indium	115-2	1601444	1581395	1572397	1585079	0.94	cps
Iron	54-2	19992941	20040008	20144205	20059051	0.39	cps
Iron	56-2	363345235	366272261	367184128	365600541	0.55	cps
Iron	57-2	9256209	9268680	9309459	9278116	0.30	cps
Krypton	83-1	253	327	243	274	16.58	cps
Lead	206-1	32692330	33165402	32729316	32862349	0.80	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28131153	28696223	28606513	28477963	1.07	cps
Lead	208-1	129945993	132135842	130345266	130809034	0.89	cps
Lithium	6-1	9101729	9032857	8754180	8962922	2.05	cps
Magnesium	24-2	66916932	66704331	67925226	67182163	0.97	cps
Manganese	55-2	8172445	8169854	8278186	8206829	0.75	cps
Molybdenum	94-1	31865521	32009919	32054500	31976646	0.31	cps
Molybdenum	95-1	45103036	44883049	44929211	44971765	0.26	cps
Molybdenum	96-1	49746129	49393953	48956883	49365655	0.80	cps
Molybdenum	97-1	28086375	27965981	27960960	28004438	0.25	cps
Molybdenum	98-1	73461777	73824396	73640791	73642321	0.25	cps
Neodymium	150-1	903	920	840	888	4.75	cps
Neodymium	150-2	63	70	100	78	25.11	cps
Nickel	60-2	972522	965171	975139	970944	0.53	cps
Phosphorus	31-2	37304	36576	38304	37395	2.32	cps
Potassium	39-2	19330338	19597060	20030998	19652799	1.80	cps
Rhodium	103-1	14015619	14156216	14156216	14109350	0.58	cps
Rhodium	103-2	5651026	5581942	5599848	5610938	0.64	cps
Scandium	45-1	11410978	11702409	11475173	11529520	1.33	cps
Scandium	45-2	230154	231810	233043	231669	0.63	cps
Selenium	82-1	127875	128858	128491	128408	0.39	cps
Selenium	77-2	2200	2380	2340	2307	4.10	cps
Selenium	78-2	7425	7742	7716	7628	2.30	cps
Silicon	28-1	7673688	7873611	7738896	7762065	1.31	cps
Silver	107-1	10430190	10544921	10493761	10489624	0.55	cps
Silver	109-1	9927295	9885159	9899035	9903830	0.22	cps
Sodium	23-2	137164075	135801955	138720231	137228754	1.06	cps
Strontium	86-1	2984903	3040041	2935064	2986669	1.76	cps
Strontium	88-1	24846106	25607614	25019257	25157659	1.59	cps
Sulfur	34-1	1691591	1684817	1667172	1681194	0.75	cps
Terbium	159-1	20712100	20307366	20741602	20587022	1.18	cps
Terbium	159-2	7070734	7002941	7064731	7046135	0.53	cps
Thallium	203-1	8125712	8089181	8149715	8121536	0.38	cps
Thallium	205-1	19176294	19112408	19080328	19123010	0.26	cps
Tin	118-1	6913621	7038330	6955256	6969069	0.91	cps
Titanium	47-1	14040733	14123641	14085111	14083162	0.29	cps
Uranium	238-1	26815988	27133716	26609172	26852959	0.98	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV004	Instrumnet Name :	P8
Client Sample ID :	CCV004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 16:55:55	DataFile Name :	087CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1658060	1661987	1678302	1666116	0.64	cps
Ytterbium	172-1	553	520	477	517	7.44	cps
Ytterbium	172-2	250	207	177	211	17.46	cps
Ytterbium	176-1	41311	42749	41696	41918	1.78	cps
Ytterbium	176-2	14405	14561	14581	14516	0.67	cps
Yttrium	89-1	28485836	28759681	28573338	28606285	0.49	cps
Yttrium	89-2	2081546	2102219	2140839	2108201	1.43	cps
Zinc	66-2	3069723	3040297	3088507	3066175	0.79	cps
Zirconium	90-1	15899796	15746816	15844301	15830304	0.49	cps
Zirconium	91-1	3496262	3566983	3515231	3526159	1.04	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	123	93	117	111	14.18	cps
Antimony	121-1	587	520	573	560	6.30	cps
Arsenic	75-2	3	3	0	2	86.60	cps
Barium	135-1	113	97	73	94	21.27	cps
Barium	137-1	127	93	100	107	16.54	cps
Beryllium	9-1	932	825	844	867	6.62	cps
Bismuth	209-1	13040516	12663931	12814424	12839624	1.48	cps
Bismuth	209-2	5687997	5600005	5673016	5653673	0.83	cps
Bromine	81-1	8529	8363	8429	8440	0.99	cps
Cadmium	108-1	33	37	13	28	45.44	cps
Cadmium	106-1	8683	8543	9140	8788	3.55	cps
Cadmium	111-1	6085	6008	6412	6168	3.48	cps
Calcium	43-1	717	760	770	749	3.79	cps
Calcium	44-1	35350	36002	36085	35812	1.12	cps
Carbon	12-1	5329292	5242932	5230972	5267732	1.02	cps
Carbon	12-2	33972	33809	33699	33827	0.41	cps
Chlorine	35-1	593422	585235	578491	585716	1.28	cps
Chlorine	35-2	2187	2290	2150	2209	3.29	cps
Chromium	52-2	1690	1643	1563	1632	3.93	cps
Cobalt	59-2	167	113	167	149	20.68	cps
Copper	63-2	4584	4597	4494	4559	1.23	cps
Dysprosium	156-1	10	13	23	16	44.60	cps
Dysprosium	156-2	0	3	10	4	114.60	cps
Erbium	164-1	123	87	97	102	18.54	cps
Erbium	164-2	60	17	37	38	57.40	cps
Gadolinium	160-1	120	100	113	111	9.16	cps
Gadolinium	160-2	47	17	10	24	79.90	cps
Holmium	165-1	20768149	20906592	20875388	20850043	0.35	cps
Holmium	165-2	7661746	7651587	7549143	7620825	0.82	cps
Indium	115-1	17422205	17329403	17246577	17332728	0.51	cps
Indium	115-2	1774994	1756429	1787002	1772808	0.87	cps
Iron	54-2	887	793	850	843	5.58	cps
Iron	56-2	11408	11625	12065	11699	2.86	cps
Iron	57-2	303	247	327	292	14.08	cps
Krypton	83-1	337	277	263	292	13.37	cps
Lead	206-1	2877	2904	2717	2833	3.56	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2280	2334	2154	2256	4.10	cps
Lead	208-1	10995	10869	10632	10832	1.70	cps
Lithium	6-1	10138752	10064632	9922487	10041957	1.09	cps
Magnesium	24-2	2680	2507	2714	2634	4.21	cps
Manganese	55-2	250	223	230	234	5.92	cps
Molybdenum	94-1	750	643	697	697	7.66	cps
Molybdenum	95-1	483	413	373	423	13.15	cps
Molybdenum	96-1	593	547	470	537	11.60	cps
Molybdenum	97-1	307	223	217	249	20.15	cps
Molybdenum	98-1	770	667	617	684	11.43	cps
Neodymium	150-1	7	17	3	9	78.08	cps
Neodymium	150-2	0	10	3	4	114.60	cps
Nickel	60-2	1307	1303	1273	1295	1.42	cps
Phosphorus	31-2	90	83	117	97	18.25	cps
Potassium	39-2	18462	18035	17491	17996	2.70	cps
Rhodium	103-1	16512364	16367319	16629933	16503205	0.80	cps
Rhodium	103-2	6674502	6664648	6555641	6631597	0.99	cps
Scandium	45-1	12604265	12371738	12337353	12437785	1.17	cps
Scandium	45-2	243770	244811	245438	244673	0.34	cps
Selenium	82-1	-83	17	13	-18	-319.47	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	13	7	13	11	34.61	cps
Silicon	28-1	654852	650819	651463	652378	0.33	cps
Silver	107-1	690	560	607	619	10.64	cps
Silver	109-1	517	533	470	507	6.48	cps
Sodium	23-2	76569	76455	76616	76547	0.11	cps
Strontium	86-1	663	707	657	676	4.02	cps
Strontium	88-1	1583	1570	1467	1540	4.15	cps
Sulfur	34-1	918622	923051	869671	903781	3.28	cps
Terbium	159-1	21714971	21535569	21291342	21513961	0.99	cps
Terbium	159-2	7354226	7256651	7343696	7318191	0.73	cps
Thallium	203-1	520	480	420	473	10.63	cps
Thallium	205-1	1197	1127	1030	1118	7.49	cps
Tin	118-1	3130	3027	3154	3104	2.17	cps
Titanium	47-1	297	227	287	270	14.02	cps
Uranium	238-1	83	80	77	80	4.16	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB004	Instrumnet Name :	P8
Client Sample ID :	CCB004	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:02:11	DataFile Name :	089CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	3	20	13	66.16	cps
Ytterbium	172-1	107	83	123	104	19.24	cps
Ytterbium	172-2	47	27	23	32	39.17	cps
Ytterbium	176-1	1934	2020	1880	1945	3.63	cps
Ytterbium	176-2	297	313	330	313	5.32	cps
Yttrium	89-1	31096651	30464528	30430926	30664035	1.22	cps
Yttrium	89-2	2204711	2281917	2258579	2248402	1.76	cps
Zinc	66-2	230	217	237	228	4.47	cps
Zirconium	90-1	1130	1160	1290	1193	7.13	cps
Zirconium	91-1	220	183	223	209	10.62	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	93	63	82	20.00	cps
Antimony	121-1	157	157	173	162	5.93	cps
Arsenic	75-2	7	7	0	4	86.60	cps
Barium	135-1	70	83	53	69	21.82	cps
Barium	137-1	93	133	120	116	17.63	cps
Beryllium	9-1	604	549	601	585	5.31	cps
Bismuth	209-1	12613388	12763764	12901827	12759660	1.13	cps
Bismuth	209-2	5558355	5561627	5308178	5476053	2.66	cps
Bromine	81-1	7349	7465	7162	7325	2.09	cps
Cadmium	108-1	27	10	43	27	62.49	cps
Cadmium	106-1	8716	8336	9073	8708	4.23	cps
Cadmium	111-1	6126	5858	6344	6109	3.98	cps
Calcium	43-1	713	757	757	742	3.37	cps
Calcium	44-1	36082	36319	36794	36398	1.00	cps
Carbon	12-1	4971379	4930742	4935698	4945940	0.45	cps
Carbon	12-2	31424	31420	31146	31330	0.51	cps
Chlorine	35-1	421981	417875	411508	417122	1.27	cps
Chlorine	35-2	1433	1733	1770	1646	11.22	cps
Chromium	52-2	2774	2814	2774	2787	0.83	cps
Cobalt	59-2	140	170	170	160	10.83	cps
Copper	63-2	4657	4454	4507	4540	2.32	cps
Dysprosium	156-1	10	10	30	17	69.28	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	107	120	83	103	17.96	cps
Erbium	164-2	53	23	50	42	38.95	cps
Gadolinium	160-1	137	107	103	116	15.89	cps
Gadolinium	160-2	27	23	23	24	7.89	cps
Holmium	165-1	20674739	20651396	20584304	20636813	0.23	cps
Holmium	165-2	7594621	7482221	7170660	7415834	2.96	cps
Indium	115-1	17040463	17108529	17335185	17161392	0.90	cps
Indium	115-2	1767232	1795908	1686853	1749998	3.23	cps
Iron	54-2	857	847	800	834	3.62	cps
Iron	56-2	11895	12392	12402	12230	2.37	cps
Iron	57-2	260	337	463	353	29.07	cps
Krypton	83-1	290	360	263	304	16.40	cps
Lead	206-1	2107	2007	1970	2028	3.49	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1580	1800	1673	1685	6.56	cps
Lead	208-1	8091	8068	8094	8084	0.18	cps
Lithium	6-1	9945357	9914203	9886982	9915514	0.29	cps
Magnesium	24-2	2904	2874	2917	2898	0.77	cps
Manganese	55-2	297	270	263	277	6.37	cps
Molybdenum	94-1	577	453	660	563	18.46	cps
Molybdenum	95-1	377	230	257	288	27.15	cps
Molybdenum	96-1	370	350	360	360	2.78	cps
Molybdenum	97-1	150	150	167	156	6.19	cps
Molybdenum	98-1	357	333	293	328	9.77	cps
Neodymium	150-1	10	0	13	8	89.21	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1723	1643	1623	1663	3.18	cps
Phosphorus	31-2	67	70	67	68	2.84	cps
Potassium	39-2	17651	17597	17718	17655	0.34	cps
Rhodium	103-1	16344934	16300461	16136420	16260605	0.68	cps
Rhodium	103-2	6645920	6541218	6187032	6458057	3.72	cps
Scandium	45-1	12585739	12588869	12602300	12592303	0.07	cps
Scandium	45-2	241808	244692	228973	238491	3.51	cps
Selenium	82-1	20	-43	37	4	950.02	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	10	10	3	8	49.52	cps
Silicon	28-1	654818	651847	650492	652386	0.34	cps
Silver	107-1	453	353	427	411	12.60	cps
Silver	109-1	187	213	207	202	6.86	cps
Sodium	23-2	77705	78121	77022	77616	0.71	cps
Strontium	86-1	667	617	573	619	7.55	cps
Strontium	88-1	1443	1357	1367	1389	3.41	cps
Sulfur	34-1	1000365	984007	979001	987791	1.13	cps
Terbium	159-1	21261369	21075148	20932319	21089612	0.78	cps
Terbium	159-2	7278257	7248822	6799670	7108916	3.77	cps
Thallium	203-1	230	333	330	298	19.72	cps
Thallium	205-1	720	663	637	673	6.32	cps
Tin	118-1	2000	1910	2040	1984	3.36	cps
Titanium	47-1	287	340	267	298	12.73	cps
Uranium	238-1	37	30	37	34	11.18	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BL	Instrumnet Name :	P8
Client Sample ID :	PBS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:12:19	DataFile Name :	092CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	27	23	21	32.88	cps
Ytterbium	172-1	87	110	143	113	25.13	cps
Ytterbium	172-2	40	47	43	43	7.70	cps
Ytterbium	176-1	1994	1913	1960	1956	2.06	cps
Ytterbium	176-2	280	270	293	281	4.16	cps
Yttrium	89-1	30648092	30078025	30674639	30466919	1.11	cps
Yttrium	89-2	2270997	2260709	2125744	2219150	3.65	cps
Zinc	66-2	183	187	207	192	6.56	cps
Zirconium	90-1	1137	1000	1013	1050	7.18	cps
Zirconium	91-1	263	270	183	239	20.19	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	783368	773277	779555	778733	0.65	cps
Antimony	121-1	9132077	9268429	9177018	9192508	0.76	cps
Arsenic	75-2	188888	189013	188010	188637	0.29	cps
Barium	135-1	10604452	10770742	10584678	10653290	0.96	cps
Barium	137-1	18687618	18685379	18458213	18610403	0.71	cps
Beryllium	9-1	3348429	3308003	3353778	3336737	0.75	cps
Bismuth	209-1	12176058	12218489	10899873	11764807	6.37	cps
Bismuth	209-2	4828324	5056227	5206487	5030346	3.79	cps
Bromine	81-1	6835	6401	6755	6664	3.46	cps
Cadmium	108-1	178354	178085	181669	179369	1.11	cps
Cadmium	106-1	260575	261650	261172	261132	0.21	cps
Cadmium	111-1	2225992	2295970	2272692	2264885	1.57	cps
Calcium	43-1	3095357	3081612	3205288	3127419	2.17	cps
Calcium	44-1	50241413	50286444	51586024	50704627	1.51	cps
Carbon	12-1	6239638	6302938	6380907	6307827	1.12	cps
Carbon	12-2	42170	42551	42548	42423	0.52	cps
Chlorine	35-1	404966	405662	405524	405384	0.09	cps
Chlorine	35-2	1733	1710	1777	1740	1.94	cps
Chromium	52-2	2171260	2166132	2186521	2174638	0.49	cps
Cobalt	59-2	4056382	4049295	3986492	4030723	0.95	cps
Copper	63-2	30617894	30454045	30534128	30535356	0.27	cps
Dysprosium	156-1	187	197	207	197	5.08	cps
Dysprosium	156-2	30	23	20	24	20.83	cps
Erbium	164-1	187	190	160	179	9.19	cps
Erbium	164-2	83	57	63	68	20.47	cps
Gadolinium	160-1	223	190	197	203	8.68	cps
Gadolinium	160-2	50	50	53	51	3.76	cps
Holmium	165-1	20936474	20528967	18108538	19857993	7.70	cps
Holmium	165-2	6770547	6965625	7278146	7004773	3.66	cps
Indium	115-1	16619953	16665296	14363380	15882876	8.29	cps
Indium	115-2	1447528	1574815	1614574	1545639	5.65	cps
Iron	54-2	4347392	4357408	4364540	4356447	0.20	cps
Iron	56-2	78304549	78094017	78022047	78140204	0.19	cps
Iron	57-2	2002405	1989528	1991814	1994582	0.34	cps
Krypton	83-1	267	277	253	266	4.41	cps
Lead	206-1	34053805	34294794	34738063	34362221	1.01	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29614515	29429160	29798315	29613997	0.62	cps
Lead	208-1	137210728	136620835	137272313	137034625	0.26	cps
Lithium	6-1	9527915	9509604	8768401	9268640	4.68	cps
Magnesium	24-2	14562863	14320961	14765614	14549813	1.53	cps
Manganese	55-2	8525311	8595631	8531109	8550683	0.46	cps
Molybdenum	94-1	32421633	33146343	31846695	32471557	2.01	cps
Molybdenum	95-1	46208873	46225441	45846314	46093543	0.46	cps
Molybdenum	96-1	50774883	50209068	50919899	50634616	0.74	cps
Molybdenum	97-1	28524838	28538878	28626865	28563527	0.19	cps
Molybdenum	98-1	73872642	75192344	74034082	74366356	0.97	cps
Neodymium	150-1	690	743	777	737	5.93	cps
Neodymium	150-2	33	17	17	22	43.28	cps
Nickel	60-2	1122774	1113694	1104336	1113601	0.83	cps
Phosphorus	31-2	38792	38431	38010	38411	1.02	cps
Potassium	39-2	4148527	4131338	4148974	4142946	0.24	cps
Rhodium	103-1	15455474	15276974	13481231	14737893	7.41	cps
Rhodium	103-2	5628832	5820803	5969822	5806486	2.94	cps
Scandium	45-1	12290280	12132109	10818264	11746884	6.88	cps
Scandium	45-2	217099	228877	235780	227252	4.16	cps
Selenium	82-1	136051	136389	138839	137093	1.11	cps
Selenium	77-2	2477	2467	2260	2401	5.09	cps
Selenium	78-2	8136	7796	8503	8145	4.34	cps
Silicon	28-1	8037995	8071476	7880993	7996821	1.27	cps
Silver	107-1	11262203	11335918	11370372	11322831	0.49	cps
Silver	109-1	10788447	10678957	10748333	10738579	0.52	cps
Sodium	23-2	29498673	29219000	29606735	29441470	0.68	cps
Strontium	86-1	3010529	3108398	2946656	3021861	2.70	cps
Strontium	88-1	26150661	25608765	25606261	25788563	1.22	cps
Sulfur	34-1	1757463	1740853	1742466	1746928	0.52	cps
Terbium	159-1	20814403	21019119	18402894	20078806	7.25	cps
Terbium	159-2	6633444	6902464	7010368	6848759	2.83	cps
Thallium	203-1	8386474	8371913	8564147	8440845	1.27	cps
Thallium	205-1	20010166	20087786	19810491	19969481	0.72	cps
Tin	118-1	7279194	7297633	7176012	7250947	0.90	cps
Titanium	47-1	14578806	14528802	14803296	14636968	1.00	cps
Uranium	238-1	26498280	26551275	26959343	26669633	0.95	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166532BS	Instrumnet Name :	P8
Client Sample ID :	LCS532	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:15:37	DataFile Name :	093LCSS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1708375	1710955	1665296	1694876	1.51	cps
Ytterbium	172-1	180	250	233	221	16.54	cps
Ytterbium	172-2	113	83	80	92	19.91	cps
Ytterbium	176-1	40081	40522	40382	40328	0.56	cps
Ytterbium	176-2	14738	14118	14782	14546	2.55	cps
Yttrium	89-1	29921811	29990363	25779136	28563770	8.44	cps
Yttrium	89-2	1995705	2127189	2112732	2078542	3.47	cps
Zinc	66-2	3396964	3394601	3407555	3399707	0.20	cps
Zirconium	90-1	16190447	16271850	16017864	16160054	0.80	cps
Zirconium	91-1	3572864	3597326	3638204	3602798	0.92	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	280	410	307	332	20.67	cps
Antimony	121-1	2760	2607	2280	2549	9.62	cps
Arsenic	75-2	13	10	13	12	15.73	cps
Barium	135-1	757	577	540	624	18.57	cps
Barium	137-1	1270	1007	840	1039	20.87	cps
Beryllium	9-1	1672	1449	1385	1502	10.05	cps
Bismuth	209-1	10424841	12178149	12847806	11816932	10.59	cps
Bismuth	209-2	5551890	5647628	5582344	5593954	0.87	cps
Bromine	81-1	7142	7312	7872	7442	5.14	cps
Cadmium	108-1	197	210	233	213	8.70	cps
Cadmium	106-1	7175	8466	8459	8034	9.25	cps
Cadmium	111-1	5275	6083	6048	5802	7.87	cps
Calcium	43-1	8946	9056	9240	9081	1.63	cps
Calcium	44-1	176313	175642	174231	175395	0.61	cps
Carbon	12-1	10792470	11213618	11262307	11089465	2.33	cps
Carbon	12-2	72488	74652	74253	73797	1.56	cps
Chlorine	35-1	376400	377413	377164	376992	0.14	cps
Chlorine	35-2	1450	1477	1580	1502	4.57	cps
Chromium	52-2	7802	8102	7826	7910	2.11	cps
Cobalt	59-2	273	383	327	328	16.78	cps
Copper	63-2	5578	5391	5645	5538	2.37	cps
Dysprosium	156-1	23	33	33	30	19.25	cps
Dysprosium	156-2	20	27	13	20	33.35	cps
Erbium	164-1	100	147	143	130	20.03	cps
Erbium	164-2	60	33	37	43	33.53	cps
Gadolinium	160-1	137	143	163	148	9.39	cps
Gadolinium	160-2	40	27	30	32	21.53	cps
Holmium	165-1	16894136	19825124	20514330	19077863	10.08	cps
Holmium	165-2	7749431	7688327	7567024	7668261	1.21	cps
Indium	115-1	13796437	16574554	17255862	15875618	11.54	cps
Indium	115-2	1808443	1762886	1745756	1772361	1.83	cps
Iron	54-2	3941	4064	3991	3998	1.55	cps
Iron	56-2	65600	63762	64592	64651	1.42	cps
Iron	57-2	1687	1610	1633	1643	2.39	cps
Krypton	83-1	333	247	270	283	15.83	cps
Lead	206-1	6652	5818	5478	5983	10.10	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5791	5058	4818	5222	9.71	cps
Lead	208-1	25910	23065	21604	23526	9.31	cps
Lithium	6-1	8294409	9619875	9990482	9301588	9.59	cps
Magnesium	24-2	23105	23178	23155	23146	0.16	cps
Manganese	55-2	1333	1450	1330	1371	4.98	cps
Molybdenum	94-1	242611	240661	240485	241252	0.49	cps
Molybdenum	95-1	419435	417962	410779	416059	1.11	cps
Molybdenum	96-1	450518	450220	448233	449657	0.28	cps
Molybdenum	97-1	262152	260454	260077	260895	0.42	cps
Molybdenum	98-1	670733	673751	662773	669086	0.85	cps
Neodymium	150-1	70	50	50	57	20.38	cps
Neodymium	150-2	20	27	7	18	57.27	cps
Nickel	60-2	3277	3344	3237	3286	1.64	cps
Phosphorus	31-2	690	627	713	677	6.63	cps
Potassium	39-2	19880	19730	20101	19904	0.94	cps
Rhodium	103-1	13289869	15774275	16134283	15066142	10.28	cps
Rhodium	103-2	6587758	6664263	6511796	6587939	1.16	cps
Scandium	45-1	10071393	11819753	12283572	11391573	10.24	cps
Scandium	45-2	249612	245018	242540	245723	1.46	cps
Selenium	82-1	-27	23	-20	-8	-349.04	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	7	17	13	12	41.65	cps
Silicon	28-1	781848	784488	775177	780505	0.61	cps
Silver	107-1	1767	1540	1443	1583	10.48	cps
Silver	109-1	1440	1247	1040	1242	16.10	cps
Sodium	23-2	90042	90471	91216	90576	0.66	cps
Strontium	86-1	1293	1100	1143	1179	8.61	cps
Strontium	88-1	6678	6101	5891	6224	6.55	cps
Sulfur	34-1	922789	933500	913256	923182	1.10	cps
Terbium	159-1	17521638	20312388	21357979	19730669	10.05	cps
Terbium	159-2	7402821	7312017	7374117	7362985	0.63	cps
Thallium	203-1	1130	1027	933	1030	9.55	cps
Thallium	205-1	2687	2160	2200	2349	12.48	cps
Tin	118-1	13527	13427	13617	13524	0.70	cps
Titanium	47-1	1473	1127	1287	1296	13.39	cps
Uranium	238-1	1317	877	700	964	32.93	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:18:21	DataFile Name :	094AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	120	113	63	99	31.32	cps
Ytterbium	172-1	93	110	100	101	8.30	cps
Ytterbium	172-2	53	33	60	49	28.39	cps
Ytterbium	176-1	1543	1863	1987	1798	12.73	cps
Ytterbium	176-2	310	333	303	316	4.99	cps
Yttrium	89-1	24730161	29399896	30368281	28166113	10.70	cps
Yttrium	89-2	2270398	2259635	2187924	2239319	2.00	cps
Zinc	66-2	217040	218424	216406	217290	0.47	cps
Zirconium	90-1	1723	1513	1590	1609	6.60	cps
Zirconium	91-1	380	323	257	320	19.29	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	383	350	410	381	7.89	cps
Antimony	121-1	1003	1110	1057	1057	5.05	cps
Arsenic	75-2	10	3	7	7	50.03	cps
Barium	135-1	540	613	520	558	8.81	cps
Barium	137-1	947	953	867	922	5.23	cps
Beryllium	9-1	1004	932	930	955	4.38	cps
Bismuth	209-1	12543496	12867175	12916232	12775634	1.59	cps
Bismuth	209-2	5661761	5624980	5635801	5640847	0.34	cps
Bromine	81-1	7035	7539	7836	7470	5.42	cps
Cadmium	108-1	200	153	193	182	13.85	cps
Cadmium	106-1	8459	8139	8649	8416	3.06	cps
Cadmium	111-1	5978	5850	6173	6000	2.71	cps
Calcium	43-1	8756	8833	8823	8804	0.47	cps
Calcium	44-1	171692	175315	171769	172925	1.20	cps
Carbon	12-1	10959186	11643694	11841936	11481606	4.03	cps
Carbon	12-2	74813	76096	76977	75962	1.43	cps
Chlorine	35-1	363511	362741	363982	363411	0.17	cps
Chlorine	35-2	1437	1610	1443	1497	6.56	cps
Chromium	52-2	7786	7949	7999	7911	1.41	cps
Cobalt	59-2	297	343	277	306	11.20	cps
Copper	63-2	5418	5424	5248	5363	1.87	cps
Dysprosium	156-1	53	43	47	48	10.66	cps
Dysprosium	156-2	30	37	23	30	22.23	cps
Erbium	164-1	120	133	130	128	5.43	cps
Erbium	164-2	70	30	47	49	41.10	cps
Gadolinium	160-1	170	130	150	150	13.33	cps
Gadolinium	160-2	40	27	23	30	29.40	cps
Holmium	165-1	20277021	20925106	21250883	20817670	2.38	cps
Holmium	165-2	7821138	7667232	7537044	7675138	1.85	cps
Indium	115-1	16407045	17254425	17496781	17052750	3.36	cps
Indium	115-2	1800298	1779680	1782737	1787572	0.62	cps
Iron	54-2	2534	2484	2760	2592	5.69	cps
Iron	56-2	41992	42657	42359	42336	0.79	cps
Iron	57-2	1137	1073	1057	1089	3.88	cps
Krypton	83-1	243	323	263	277	15.05	cps
Lead	206-1	4611	4728	4434	4591	3.22	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4057	3981	3844	3961	2.73	cps
Lead	208-1	18332	18248	17582	18054	2.28	cps
Lithium	6-1	9677645	10002271	10202124	9960680	2.66	cps
Magnesium	24-2	23402	22925	23172	23166	1.03	cps
Manganese	55-2	1283	1247	1197	1242	3.50	cps
Molybdenum	94-1	240646	244050	245650	243449	1.05	cps
Molybdenum	95-1	413254	420225	424532	419337	1.36	cps
Molybdenum	96-1	442300	452551	450569	448473	1.21	cps
Molybdenum	97-1	258157	262966	263651	261591	1.14	cps
Molybdenum	98-1	668259	671287	679205	672917	0.84	cps
Neodymium	150-1	33	67	73	58	37.09	cps
Neodymium	150-2	17	13	17	16	12.40	cps
Nickel	60-2	3090	3327	3240	3219	3.72	cps
Phosphorus	31-2	650	557	630	612	8.03	cps
Potassium	39-2	19824	20077	19667	19856	1.04	cps
Rhodium	103-1	15495706	16440658	16772789	16236385	4.08	cps
Rhodium	103-2	6629503	6614608	6645482	6629864	0.23	cps
Scandium	45-1	12039424	12552266	12430459	12340716	2.17	cps
Scandium	45-2	248304	248077	246779	247720	0.33	cps
Selenium	82-1	47	17	-3	20	125.81	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	23	7	12	78.69	cps
Silicon	28-1	751638	760135	761073	757615	0.69	cps
Silver	107-1	537	627	693	619	12.70	cps
Silver	109-1	470	450	530	483	8.61	cps
Sodium	23-2	90833	89955	90703	90497	0.52	cps
Strontium	86-1	1100	1063	1033	1066	3.13	cps
Strontium	88-1	6118	5868	5625	5870	4.20	cps
Sulfur	34-1	947147	944689	950978	947605	0.33	cps
Terbium	159-1	20547711	21484308	21565886	21199302	2.67	cps
Terbium	159-2	7395978	7306615	7433169	7378587	0.88	cps
Thallium	203-1	530	527	570	542	4.45	cps
Thallium	205-1	1520	1520	1307	1449	8.50	cps
Tin	118-1	14228	14548	14014	14264	1.88	cps
Titanium	47-1	1237	1253	1033	1175	10.43	cps
Uranium	238-1	707	640	610	652	7.59	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03DUP	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:21:40	DataFile Name :	095AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	97	117	67	93	26.96	cps
Ytterbium	172-1	90	157	147	131	27.42	cps
Ytterbium	172-2	43	50	33	42	19.87	cps
Ytterbium	176-1	1743	2067	2017	1942	8.96	cps
Ytterbium	176-2	277	250	383	303	23.26	cps
Yttrium	89-1	29644003	30457540	30807708	30303084	1.97	cps
Yttrium	89-2	2257230	2254410	2237775	2249805	0.47	cps
Zinc	66-2	214623	215418	211994	214011	0.84	cps
Zirconium	90-1	1297	1430	1450	1392	5.99	cps
Zirconium	91-1	323	220	217	253	23.94	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	217	180	180	192	11.01	cps
Antimony	121-1	870	840	843	851	1.93	cps
Arsenic	75-2	10	7	10	9	21.63	cps
Barium	135-1	160	207	170	179	13.74	cps
Barium	137-1	213	327	283	274	20.84	cps
Beryllium	9-1	784	739	760	761	2.96	cps
Bismuth	209-1	12762885	12890355	12775628	12809622	0.55	cps
Bismuth	209-2	6285193	5451637	4851229	5529353	13.02	cps
Bromine	81-1	6372	6732	6702	6602	3.03	cps
Cadmium	108-1	67	50	90	69	29.17	cps
Cadmium	106-1	8733	8493	8666	8631	1.44	cps
Cadmium	111-1	6163	5997	6057	6072	1.39	cps
Calcium	43-1	2494	2444	2430	2456	1.36	cps
Calcium	44-1	63071	63543	63365	63326	0.38	cps
Carbon	12-1	6653542	6797132	6759841	6736838	1.11	cps
Carbon	12-2	42842	42110	42037	42330	1.05	cps
Chlorine	35-1	339659	336982	334469	337037	0.77	cps
Chlorine	35-2	1267	1387	1243	1299	5.92	cps
Chromium	52-2	2140	2254	2297	2230	3.63	cps
Cobalt	59-2	173	193	120	162	23.37	cps
Copper	63-2	4397	4291	4134	4274	3.10	cps
Dysprosium	156-1	17	17	20	18	10.81	cps
Dysprosium	156-2	3	10	10	8	49.52	cps
Erbium	164-1	87	107	123	106	17.39	cps
Erbium	164-2	47	27	57	43	35.25	cps
Gadolinium	160-1	113	123	137	124	9.41	cps
Gadolinium	160-2	47	17	17	27	64.94	cps
Holmium	165-1	20857701	20787874	20433243	20692939	1.10	cps
Holmium	165-2	8576183	7261781	6672666	7503543	12.99	cps
Indium	115-1	17384031	17216318	16829475	17143275	1.66	cps
Indium	115-2	2004654	1710034	1472478	1729055	15.42	cps
Iron	54-2	1303	1357	1203	1288	6.04	cps
Iron	56-2	18966	19897	19200	19354	2.50	cps
Iron	57-2	540	457	483	493	8.63	cps
Krypton	83-1	293	370	330	331	11.58	cps
Lead	206-1	2684	2697	2640	2674	1.11	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2244	2297	2174	2238	2.76	cps
Lead	208-1	10448	10548	10365	10454	0.88	cps
Lithium	6-1	10085155	9718210	9755311	9852892	2.05	cps
Magnesium	24-2	7225	7489	7269	7327	1.93	cps
Manganese	55-2	320	413	297	343	17.98	cps
Molybdenum	94-1	46564	48019	47233	47272	1.54	cps
Molybdenum	95-1	81427	82423	82426	82092	0.70	cps
Molybdenum	96-1	86510	87409	87510	87143	0.63	cps
Molybdenum	97-1	50167	50642	50783	50530	0.64	cps
Molybdenum	98-1	130406	130651	130160	130406	0.19	cps
Neodymium	150-1	13	27	17	19	36.75	cps
Neodymium	150-2	3	3	17	8	99.04	cps
Nickel	60-2	1670	1700	1707	1692	1.15	cps
Phosphorus	31-2	213	200	187	200	6.67	cps
Potassium	39-2	18262	18108	18075	18148	0.55	cps
Rhodium	103-1	16208630	16442414	16126427	16259157	1.01	cps
Rhodium	103-2	7373179	6390099	5685138	6482806	13.08	cps
Scandium	45-1	12540421	12660600	12298785	12499936	1.47	cps
Scandium	45-2	278308	241207	213212	244242	13.37	cps
Selenium	82-1	-13	-63	-63	-47	-61.87	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	7	17	10	57.72	cps
Silicon	28-1	673274	674565	670975	672938	0.27	cps
Silver	107-1	427	397	417	413	3.70	cps
Silver	109-1	253	237	320	270	16.33	cps
Sodium	23-2	72579	73289	72727	72865	0.51	cps
Strontium	86-1	667	600	700	656	7.77	cps
Strontium	88-1	2354	2404	2277	2345	2.72	cps
Sulfur	34-1	930253	929347	935005	931535	0.33	cps
Terbium	159-1	21046426	21405159	20859354	21103646	1.31	cps
Terbium	159-2	8210941	7119020	6364369	7231443	12.84	cps
Thallium	203-1	367	373	367	369	1.04	cps
Thallium	205-1	883	837	847	856	2.87	cps
Tin	118-1	4364	4277	4267	4303	1.24	cps
Titanium	47-1	477	517	520	504	4.78	cps
Uranium	238-1	127	123	80	110	23.67	cps

1500

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03LX5	Instrumnet Name :	P8
Client Sample ID :	3189-3196L	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 17:25:00	DataFile Name :	096AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47	33	23	34	34.00	cps
Ytterbium	172-1	103	143	93	113	23.35	cps
Ytterbium	172-2	50	77	57	61	22.71	cps
Ytterbium	176-1	1753	1913	1853	1840	4.39	cps
Ytterbium	176-2	357	273	250	293	19.12	cps
Yttrium	89-1	30302706	30659936	30051279	30337974	1.01	cps
Yttrium	89-2	2516331	2204761	1949393	2223495	12.77	cps
Zinc	66-2	41928	42958	41019	41969	2.31	cps
Zirconium	90-1	1067	1060	1097	1074	1.82	cps
Zirconium	91-1	243	230	220	231	5.07	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	128145	127389	127378	127637	0.34	cps
Antimony	121-1	1810940	1831906	1695284	1779377	4.13	cps
Arsenic	75-2	27	23	23	24	7.89	cps
Barium	135-1	1815267	1850458	1739886	1801870	3.14	cps
Barium	137-1	3135856	3104398	2977111	3072455	2.74	cps
Beryllium	9-1	627227	641607	591590	620141	4.15	cps
Bismuth	209-1	11661936	12347014	11459415	11822789	3.93	cps
Bismuth	209-2	4989386	4978190	5037620	5001732	0.63	cps
Bromine	81-1	8409	9166	9767	9114	7.46	cps
Cadmium	108-1	31513	32348	30146	31336	3.55	cps
Cadmium	106-1	55541	57054	52135	54910	4.59	cps
Cadmium	111-1	410028	420694	388031	406251	4.10	cps
Calcium	43-1	570030	584352	531415	561932	4.87	cps
Calcium	44-1	9218580	9584623	8660328	9154510	5.08	cps
Carbon	12-1	10012838	10399768	10402188	10271598	2.18	cps
Carbon	12-2	66807	66145	66918	66623	0.63	cps
Chlorine	35-1	11782844	13751573	13233935	12922784	7.90	cps
Chlorine	35-2	57323	59224	59920	58822	2.29	cps
Chromium	52-2	360137	356767	364210	360371	1.03	cps
Cobalt	59-2	697438	689502	695650	694197	0.60	cps
Copper	63-2	5496397	5497075	5592623	5528699	1.00	cps
Dysprosium	156-1	80	77	113	90	22.53	cps
Dysprosium	156-2	23	40	7	23	71.42	cps
Erbium	164-1	183	190	140	171	15.87	cps
Erbium	164-2	43	53	47	48	10.66	cps
Gadolinium	160-1	170	207	160	179	13.74	cps
Gadolinium	160-2	40	10	80	43	81.04	cps
Holmium	165-1	18945572	19873059	18788046	19202226	3.05	cps
Holmium	165-2	6784714	6761551	6889393	6811886	1.00	cps
Indium	115-1	15660730	16202986	15448906	15770874	2.47	cps
Indium	115-2	1520180	1525752	1552523	1532818	1.13	cps
Iron	54-2	674259	669510	679784	674518	0.76	cps
Iron	56-2	12507583	12398081	12566485	12490716	0.68	cps
Iron	57-2	306027	301858	310498	306128	1.41	cps
Krypton	83-1	340	227	257	274	21.40	cps
Lead	206-1	6445540	6443789	5934481	6274604	4.69	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5631447	5589179	5103724	5441450	5.39	cps
Lead	208-1	25636742	25807204	23692791	25045579	4.69	cps
Lithium	6-1	9235819	9877278	9198718	9437272	4.04	cps
Magnesium	24-2	2489496	2465039	2492325	2482287	0.60	cps
Manganese	55-2	1522837	1481809	1538326	1514324	1.93	cps
Molybdenum	94-1	3112265	3201586	2876605	3063485	5.48	cps
Molybdenum	95-1	3501839	3619227	3171627	3430898	6.76	cps
Molybdenum	96-1	3948567	4032097	3691988	3890884	4.56	cps
Molybdenum	97-1	2185173	2201917	2049225	2145438	3.90	cps
Molybdenum	98-1	5643128	5721689	5216972	5527263	4.91	cps
Neodymium	150-1	173	173	163	170	3.40	cps
Neodymium	150-2	7	20	13	13	49.99	cps
Nickel	60-2	194993	193051	193537	193861	0.52	cps
Phosphorus	31-2	720	640	597	652	9.59	cps
Potassium	39-2	653916	651447	654666	653343	0.26	cps
Rhodium	103-1	14814187	15382743	14795018	14997316	2.23	cps
Rhodium	103-2	5885546	5920341	5946596	5917494	0.52	cps
Scandium	45-1	11318209	12106945	11374572	11599908	3.79	cps
Scandium	45-2	225953	223118	224395	224489	0.63	cps
Selenium	82-1	25694	26666	24542	25634	4.15	cps
Selenium	77-2	363	433	417	404	9.04	cps
Selenium	78-2	1443	1390	1560	1465	5.94	cps
Silicon	28-1	745390	759987	738929	748102	1.44	cps
Silver	107-1	357915	368034	338455	354801	4.24	cps
Silver	109-1	332356	346022	321077	333152	3.75	cps
Sodium	23-2	5005735	4915691	5050540	4990655	1.38	cps
Strontium	86-1	640834	658266	605869	634990	4.20	cps
Strontium	88-1	5743217	5985839	5436532	5721863	4.81	cps
Sulfur	34-1	965937	974934	926220	955697	2.71	cps
Terbium	159-1	19537497	20362615	19658967	19853026	2.24	cps
Terbium	159-2	6548041	6564647	6680562	6597750	1.09	cps
Thallium	203-1	1480116	1518483	1418289	1472296	3.43	cps
Thallium	205-1	3727442	3814537	3481486	3674488	4.70	cps
Tin	118-1	1197218	1230489	1139304	1189003	3.88	cps
Titanium	47-1	2027	2124	1843	1998	7.12	cps
Uranium	238-1	4936789	5023273	4527696	4829253	5.48	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MS	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:28:19	DataFile Name :	097AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	291013	285441	290486	288980	1.06	cps
Ytterbium	172-1	180	173	210	188	10.40	cps
Ytterbium	172-2	93	50	90	78	31.00	cps
Ytterbium	176-1	8950	9057	8396	8801	4.03	cps
Ytterbium	176-2	2744	2660	2710	2705	1.55	cps
Yttrium	89-1	27929105	29419106	27514837	28287683	3.54	cps
Yttrium	89-2	1988936	2025646	2045072	2019885	1.41	cps
Zinc	66-2	743195	736016	747139	742117	0.76	cps
Zirconium	90-1	2935034	3011661	2785142	2910612	3.96	cps
Zirconium	91-1	626428	643631	594744	621601	3.99	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143436	142052	140562	142017	1.01	cps
Antimony	121-1	1809337	1878621	1850839	1846265	1.89	cps
Arsenic	75-2	7	23	23	18	54.11	cps
Barium	135-1	1817448	1899493	1849926	1855622	2.23	cps
Barium	137-1	3204775	3272895	3242521	3240064	1.05	cps
Beryllium	9-1	634652	650389	649582	644875	1.37	cps
Bismuth	209-1	12336773	12632209	13226932	12731971	3.56	cps
Bismuth	209-2	5270569	5683739	5650191	5534833	4.15	cps
Bromine	81-1	7799	8709	8900	8469	6.95	cps
Cadmium	108-1	31476	33280	33006	32587	2.98	cps
Cadmium	106-1	56411	58102	58825	57779	2.14	cps
Cadmium	111-1	416243	429845	426997	424362	1.69	cps
Calcium	43-1	570561	588646	591342	583516	1.94	cps
Calcium	44-1	9189723	9715903	9665820	9523815	3.05	cps
Carbon	12-1	10293551	10840919	11039658	10724709	3.60	cps
Carbon	12-2	71402	70488	71834	71241	0.96	cps
Chlorine	35-1	13131564	14778019	15559933	14489838	8.55	cps
Chlorine	35-2	67295	67680	68330	67769	0.77	cps
Chromium	52-2	402547	401358	400324	401409	0.28	cps
Cobalt	59-2	777995	776224	778350	777523	0.15	cps
Copper	63-2	6147616	6068575	6151143	6122445	0.76	cps
Dysprosium	156-1	110	83	123	106	19.30	cps
Dysprosium	156-2	27	37	17	27	37.50	cps
Erbium	164-1	150	143	150	148	2.60	cps
Erbium	164-2	53	50	40	48	14.52	cps
Gadolinium	160-1	183	213	170	189	11.75	cps
Gadolinium	160-2	47	43	50	47	7.15	cps
Holmium	165-1	20391607	20848776	21608140	20949508	2.93	cps
Holmium	165-2	7296987	7842066	7620148	7586401	3.61	cps
Indium	115-1	16440518	16961400	17634174	17012031	3.52	cps
Indium	115-2	1645806	1822120	1804641	1757522	5.53	cps
Iron	54-2	761399	751787	753459	755548	0.68	cps
Iron	56-2	14149686	13653350	13919736	13907591	1.79	cps
Iron	57-2	343050	340101	341497	341549	0.43	cps
Krypton	83-1	300	253	260	271	9.31	cps
Lead	206-1	6405349	6650215	6648327	6567964	2.14	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5479200	5758778	5735494	5657824	2.74	cps
Lead	208-1	25300590	26086329	26148961	25845293	1.83	cps
Lithium	6-1	9690123	9934454	10519114	10047897	4.24	cps
Magnesium	24-2	2750565	2735387	2805481	2763811	1.33	cps
Manganese	55-2	1717403	1652736	1674721	1681620	1.96	cps
Molybdenum	94-1	3094407	3200146	3187998	3160851	1.83	cps
Molybdenum	95-1	3529272	3655020	3591876	3592056	1.75	cps
Molybdenum	96-1	3931953	4126994	4102073	4053674	2.62	cps
Molybdenum	97-1	2188215	2272759	2271427	2244134	2.16	cps
Molybdenum	98-1	5675061	5753704	5800976	5743247	1.11	cps
Neodymium	150-1	213	213	200	209	3.69	cps
Neodymium	150-2	13	13	27	18	43.33	cps
Nickel	60-2	214138	214431	212743	213771	0.42	cps
Phosphorus	31-2	787	703	760	750	5.67	cps
Potassium	39-2	730063	724608	725138	726603	0.41	cps
Rhodium	103-1	15735694	16152444	16937925	16275354	3.75	cps
Rhodium	103-2	6178560	6608727	6587933	6458407	3.76	cps
Scandium	45-1	11866643	12488956	13045867	12467155	4.73	cps
Scandium	45-2	235116	251785	250335	245745	3.76	cps
Selenium	82-1	26185	26719	27114	26673	1.75	cps
Selenium	77-2	480	427	543	483	12.08	cps
Selenium	78-2	1537	1643	1653	1611	4.01	cps
Silicon	28-1	752015	763358	765095	760156	0.93	cps
Silver	107-1	355939	376300	371484	367908	2.89	cps
Silver	109-1	337047	351997	351200	346748	2.43	cps
Sodium	23-2	5592194	5540666	5652629	5595163	1.00	cps
Strontium	86-1	643774	671839	666599	660738	2.26	cps
Strontium	88-1	5831094	5939998	5921408	5897500	0.99	cps
Sulfur	34-1	947165	957050	954170	952795	0.53	cps
Terbium	159-1	20280094	21461661	22241881	21327879	4.63	cps
Terbium	159-2	6940239	7486254	7400066	7275519	4.03	cps
Thallium	203-1	1498366	1569101	1555576	1541015	2.44	cps
Thallium	205-1	3796055	3855779	3864572	3838802	0.97	cps
Tin	118-1	1206997	1254105	1257798	1239633	2.28	cps
Titanium	47-1	2007	1923	2174	2035	6.26	cps
Uranium	238-1	4909493	5011781	4974057	4965111	1.04	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03MSD	Instrumnet Name :	P8
Client Sample ID :	3189-3196	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:31:23	DataFile Name :	098AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	321635	317143	318979	319252	0.71	cps
Ytterbium	172-1	220	210	150	193	19.58	cps
Ytterbium	172-2	83	67	67	72	13.32	cps
Ytterbium	176-1	8886	9077	9497	9153	3.41	cps
Ytterbium	176-2	2880	2967	2874	2907	1.79	cps
Yttrium	89-1	29274225	30331589	31611856	30405890	3.85	cps
Yttrium	89-2	2133831	2239502	2259511	2210948	3.05	cps
Zinc	66-2	833145	828393	829758	830432	0.29	cps
Zirconium	90-1	2915061	3011612	3033322	2986665	2.11	cps
Zirconium	91-1	618963	647728	647586	638092	2.60	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	139595	140534	138711	139613	0.65	cps
Antimony	121-1	1851350	1856405	1857210	1854988	0.17	cps
Arsenic	75-2	27	33	27	29	13.31	cps
Barium	135-1	1850213	1827644	1853085	1843647	0.76	cps
Barium	137-1	3123546	3233018	3211596	3189387	1.82	cps
Beryllium	9-1	630043	643778	642702	638841	1.20	cps
Bismuth	209-1	13023512	12797615	12722858	12847995	1.22	cps
Bismuth	209-2	5492066	5538979	5565924	5532323	0.68	cps
Bromine	81-1	7492	8289	8433	8071	6.28	cps
Cadmium	108-1	32315	32722	32538	32525	0.63	cps
Cadmium	106-1	56800	57536	57415	57250	0.69	cps
Cadmium	111-1	414737	425633	426229	422200	1.53	cps
Calcium	43-1	573256	579064	581371	577897	0.72	cps
Calcium	44-1	9516077	9597302	9616300	9576560	0.56	cps
Carbon	12-1	10021123	10596879	10901346	10506449	4.25	cps
Carbon	12-2	69041	69222	70230	69498	0.92	cps
Chlorine	35-1	13695803	15386136	16104193	15062044	8.21	cps
Chlorine	35-2	69670	68139	69271	69027	1.15	cps
Chromium	52-2	400145	403272	392149	398522	1.44	cps
Cobalt	59-2	770450	777426	766772	771549	0.70	cps
Copper	63-2	6048315	6062598	6129094	6080002	0.71	cps
Dysprosium	156-1	80	143	117	113	28.06	cps
Dysprosium	156-2	30	20	43	31	37.62	cps
Erbium	164-1	160	140	183	161	13.46	cps
Erbium	164-2	47	50	70	56	22.71	cps
Gadolinium	160-1	190	217	193	200	7.26	cps
Gadolinium	160-2	53	57	43	51	13.58	cps
Holmium	165-1	21472213	20574001	20544542	20863585	2.53	cps
Holmium	165-2	7557123	7439163	7586012	7527433	1.03	cps
Indium	115-1	17145931	16695366	17126682	16989326	1.50	cps
Indium	115-2	1746481	1725335	1731513	1734443	0.63	cps
Iron	54-2	751885	753759	740306	748650	0.97	cps
Iron	56-2	13611177	13910161	13603577	13708305	1.28	cps
Iron	57-2	338204	340558	337164	338642	0.51	cps
Krypton	83-1	237	270	283	263	9.13	cps
Lead	206-1	6513372	6690879	6611007	6605086	1.35	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5651269	5759770	5693421	5701486	0.96	cps
Lead	208-1	25842153	26366049	26128162	26112121	1.00	cps
Lithium	6-1	10265330	9769689	9897259	9977426	2.58	cps
Magnesium	24-2	2701933	2736700	2714614	2717749	0.65	cps
Manganese	55-2	1655787	1695395	1641089	1664090	1.69	cps
Molybdenum	94-1	3129686	3111197	3144664	3128516	0.54	cps
Molybdenum	95-1	3534867	3509626	3595524	3546672	1.24	cps
Molybdenum	96-1	4009298	4021619	3991138	4007352	0.38	cps
Molybdenum	97-1	2172624	2245161	2232178	2216655	1.74	cps
Molybdenum	98-1	5719281	5806023	5812852	5779385	0.90	cps
Neodymium	150-1	207	160	210	192	14.54	cps
Neodymium	150-2	13	7	20	13	49.99	cps
Nickel	60-2	212739	213427	211455	212541	0.47	cps
Phosphorus	31-2	660	713	833	736	12.07	cps
Potassium	39-2	719180	715303	709641	714708	0.67	cps
Rhodium	103-1	16560556	16508854	15978792	16349400	1.97	cps
Rhodium	103-2	6482514	6548237	6480834	6503861	0.59	cps
Scandium	45-1	12798590	12480788	12497643	12592340	1.42	cps
Scandium	45-2	244451	244796	244516	244588	0.07	cps
Selenium	82-1	25500	26479	26552	26177	2.24	cps
Selenium	77-2	360	470	550	460	20.74	cps
Selenium	78-2	1583	1640	1537	1587	3.26	cps
Silicon	28-1	757447	758479	760055	758660	0.17	cps
Silver	107-1	361177	371306	373739	368741	1.81	cps
Silver	109-1	341250	346571	351228	346349	1.44	cps
Sodium	23-2	5485203	5451551	5343413	5426722	1.37	cps
Strontium	86-1	652564	663455	669366	661795	1.29	cps
Strontium	88-1	5889685	5813739	5838404	5847276	0.66	cps
Sulfur	34-1	967261	938182	951016	952153	1.53	cps
Terbium	159-1	21694990	21196436	21379973	21423800	1.18	cps
Terbium	159-2	7257307	7367620	7179861	7268263	1.30	cps
Thallium	203-1	1513654	1547407	1550365	1537142	1.33	cps
Thallium	205-1	3881575	3873346	3863230	3872717	0.24	cps
Tin	118-1	1206869	1237642	1239809	1228107	1.50	cps
Titanium	47-1	2137	2184	2050	2124	3.19	cps
Uranium	238-1	4899217	5026521	5059401	4995046	1.69	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1271-03A	Instrumnet Name :	P8
Client Sample ID :	3189-3196A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:34:22	DataFile Name :	099AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	316258	317752	317441	317150	0.25	cps
Ytterbium	172-1	163	187	213	188	13.32	cps
Ytterbium	172-2	67	73	90	77	15.68	cps
Ytterbium	176-1	8993	9390	8943	9109	2.69	cps
Ytterbium	176-2	2867	3030	2990	2963	2.87	cps
Yttrium	89-1	31239248	30098863	30194879	30510996	2.07	cps
Yttrium	89-2	2191677	2253035	2224171	2222961	1.38	cps
Zinc	66-2	818565	820563	815521	818216	0.31	cps
Zirconium	90-1	2949925	3041153	3015424	3002167	1.57	cps
Zirconium	91-1	626505	643491	650605	640201	1.93	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3837921	3867795	3925672	3877129	1.15	cps
Antimony	121-1	8303360	8398786	8342650	8348265	0.57	cps
Arsenic	75-2	176832	180301	178607	178580	0.97	cps
Barium	135-1	9819433	9886462	9976222	9894039	0.80	cps
Barium	137-1	17191024	17176974	17260867	17209622	0.26	cps
Beryllium	9-1	3076029	3116096	3064182	3085436	0.88	cps
Bismuth	209-1	11232972	11104466	11042275	11126571	0.87	cps
Bismuth	209-2	4506220	4933425	4855644	4765097	4.78	cps
Bromine	81-1	5581	5848	5895	5775	2.93	cps
Cadmium	108-1	161048	163329	163558	162645	0.85	cps
Cadmium	106-1	237239	238969	239924	238711	0.57	cps
Cadmium	111-1	1995687	2038745	2052712	2029048	1.46	cps
Calcium	43-1	14662527	14403205	14280227	14448653	1.35	cps
Calcium	44-1	237704916	236659116	236488536	236950856	0.28	cps
Carbon	12-1	6257660	6273228	6421477	6317455	1.43	cps
Carbon	12-2	47376	48393	48075	47948	1.08	cps
Chlorine	35-1	944834	919967	894952	919918	2.71	cps
Chlorine	35-2	3454	3344	3284	3360	2.57	cps
Chromium	52-2	2055685	2080115	2055461	2063754	0.69	cps
Cobalt	59-2	3716351	3775751	3760521	3750874	0.82	cps
Copper	63-2	27798099	27559985	27964612	27774232	0.73	cps
Dysprosium	156-1	390	430	533	451	16.40	cps
Dysprosium	156-2	117	67	117	100	28.87	cps
Erbium	164-1	443	410	420	424	4.03	cps
Erbium	164-2	153	143	150	149	3.42	cps
Gadolinium	160-1	447	403	403	418	5.99	cps
Gadolinium	160-2	137	100	203	147	35.72	cps
Holmium	165-1	19823489	19839266	19478170	19713641	1.04	cps
Holmium	165-2	6673238	7396993	7143414	7071215	5.19	cps
Indium	115-1	15608196	15179795	15164193	15317395	1.64	cps
Indium	115-2	1457440	1590433	1557562	1535145	4.51	cps
Iron	54-2	19974763	20295518	19912419	20060900	1.02	cps
Iron	56-2	371532088	368655875	368319261	369502408	0.48	cps
Iron	57-2	9214272	9253167	9190487	9219308	0.34	cps
Krypton	83-1	293	310	307	303	2.91	cps
Lead	206-1	30190390	30758854	31686660	30878635	2.45	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26366985	26909122	27171272	26815793	1.53	cps
Lead	208-1	121089920	123397798	124474826	122987515	1.41	cps
Lithium	6-1	9033077	8854623	8837084	8908261	1.22	cps
Magnesium	24-2	67103702	66168516	67327789	66866669	0.92	cps
Manganese	55-2	8142965	8199256	8099850	8147357	0.61	cps
Molybdenum	94-1	30260795	31020079	30514633	30598502	1.26	cps
Molybdenum	95-1	42873132	44041143	42979121	43297799	1.49	cps
Molybdenum	96-1	47479096	48447758	47773953	47900269	1.04	cps
Molybdenum	97-1	26585945	26677245	27333910	26865700	1.52	cps
Molybdenum	98-1	69160702	70562467	71079932	70267701	1.41	cps
Neodymium	150-1	767	727	790	761	4.21	cps
Neodymium	150-2	53	67	50	57	15.57	cps
Nickel	60-2	965791	963871	963767	964477	0.12	cps
Phosphorus	31-2	37512	37692	37201	37468	0.66	cps
Potassium	39-2	19467770	19635863	19770558	19624730	0.77	cps
Rhodium	103-1	13981486	13925092	14126393	14010990	0.74	cps
Rhodium	103-2	5266787	5695885	5600425	5521032	4.08	cps
Scandium	45-1	11994527	11566904	11623449	11728293	1.98	cps
Scandium	45-2	215409	236753	232644	228269	4.96	cps
Selenium	82-1	122354	125051	122932	123445	1.15	cps
Selenium	77-2	2334	2287	2237	2286	2.12	cps
Selenium	78-2	7919	7872	7749	7847	1.12	cps
Silicon	28-1	7520093	7664471	7610112	7598225	0.96	cps
Silver	107-1	10039426	10171173	9986749	10065783	0.94	cps
Silver	109-1	9472292	9557491	9460565	9496782	0.56	cps
Sodium	23-2	136362598	138637828	133815718	136272048	1.77	cps
Strontium	86-1	2830568	2871290	2898925	2866928	1.20	cps
Strontium	88-1	24576885	24434506	24701007	24570799	0.54	cps
Sulfur	34-1	1670896	1655558	1661856	1662770	0.46	cps
Terbium	159-1	20109014	20026348	19841071	19992145	0.69	cps
Terbium	159-2	6380263	6911953	6860493	6717570	4.37	cps
Thallium	203-1	7551101	7620450	7929354	7700302	2.62	cps
Thallium	205-1	18190430	17912142	18318125	18140232	1.14	cps
Tin	118-1	6699396	6715918	6696698	6704004	0.16	cps
Titanium	47-1	13904944	13915456	13817289	13879230	0.39	cps
Uranium	238-1	24792958	25542172	24797098	25044076	1.72	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV005	Instrumnet Name :	P8
Client Sample ID :	CCV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:39:33	DataFile Name :	100CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1632120	1626078	1629345	1629181	0.19	cps
Ytterbium	172-1	477	467	420	454	6.66	cps
Ytterbium	172-2	203	213	237	218	7.85	cps
Ytterbium	176-1	38486	39552	39064	39034	1.37	cps
Ytterbium	176-2	14181	14491	14608	14427	1.53	cps
Yttrium	89-1	29123899	28422285	28733330	28759838	1.22	cps
Yttrium	89-2	1931651	2155171	2115803	2067542	5.77	cps
Zinc	66-2	2980099	3022738	2981082	2994640	0.81	cps
Zirconium	90-1	15223440	15554068	15438509	15405339	1.09	cps
Zirconium	91-1	3413585	3530209	3406848	3450214	2.01	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177	173	183	178	2.86	cps
Antimony	121-1	2790	2500	2250	2514	10.75	cps
Arsenic	75-2	7	0	3	3	100.05	cps
Barium	135-1	597	490	340	476	27.11	cps
Barium	137-1	1347	710	500	852	51.74	cps
Beryllium	9-1	1930	1716	1557	1734	10.78	cps
Bismuth	209-1	12849331	12755888	12646106	12750441	0.80	cps
Bismuth	209-2	5277034	6196866	5791068	5754989	8.01	cps
Bromine	81-1	5798	5695	5821	5771	1.17	cps
Cadmium	108-1	27	33	10	23	51.50	cps
Cadmium	106-1	8616	8966	8573	8718	2.48	cps
Cadmium	111-1	6243	6363	6117	6241	1.97	cps
Calcium	43-1	1397	1203	1117	1239	11.57	cps
Calcium	44-1	51669	45061	42392	46374	10.30	cps
Carbon	12-1	5001327	4977383	4861908	4946873	1.51	cps
Carbon	12-2	31317	31333	30779	31143	1.01	cps
Chlorine	35-1	697404	684482	669230	683705	2.06	cps
Chlorine	35-2	2687	2634	2657	2659	1.01	cps
Chromium	52-2	1997	2357	2347	2234	9.18	cps
Cobalt	59-2	300	287	227	271	14.41	cps
Copper	63-2	5091	5084	5174	5117	0.98	cps
Dysprosium	156-1	20	13	7	13	49.99	cps
Dysprosium	156-2	0	13	0	4	173.21	cps
Erbium	164-1	73	127	103	101	26.45	cps
Erbium	164-2	60	43	27	43	38.46	cps
Gadolinium	160-1	120	157	110	129	19.06	cps
Gadolinium	160-2	17	23	23	21	18.21	cps
Holmium	165-1	20563532	20515853	20523622	20534336	0.12	cps
Holmium	165-2	6966179	8487519	7633374	7695691	9.91	cps
Indium	115-1	17329234	17119488	17044922	17164548	0.86	cps
Indium	115-2	1657344	1999755	1804229	1820443	9.44	cps
Iron	54-2	1177	1270	1180	1209	4.38	cps
Iron	56-2	20301	19223	19604	19709	2.77	cps
Iron	57-2	510	543	483	512	5.87	cps
Krypton	83-1	303	327	273	301	8.88	cps
Lead	206-1	6178	5094	4581	5284	15.43	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5331	4594	3831	4585	16.36	cps
Lead	208-1	24830	20530	18522	21294	15.13	cps
Lithium	6-1	9972755	9816754	9688517	9826009	1.45	cps
Magnesium	24-2	4494	4577	4501	4524	1.02	cps
Manganese	55-2	553	483	467	501	9.18	cps
Molybdenum	94-1	3370	2107	1827	2435	33.78	cps
Molybdenum	95-1	3647	2667	2120	2811	27.52	cps
Molybdenum	96-1	4231	2880	2270	3127	32.08	cps
Molybdenum	97-1	2360	1547	1250	1719	33.44	cps
Molybdenum	98-1	5888	3801	3017	4235	35.04	cps
Neodymium	150-1	20	10	10	13	43.30	cps
Neodymium	150-2	3	0	10	4	114.60	cps
Nickel	60-2	1527	1463	1580	1523	3.83	cps
Phosphorus	31-2	40	73	83	66	34.61	cps
Potassium	39-2	18719	18302	18709	18577	1.28	cps
Rhodium	103-1	16214348	15913099	16005191	16044213	0.96	cps
Rhodium	103-2	6240590	7399311	6597350	6745750	8.80	cps
Scandium	45-1	12545600	12535958	12263741	12448433	1.29	cps
Scandium	45-2	229835	271615	249934	250462	8.34	cps
Selenium	82-1	-47	60	17	10	536.34	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	7	13	8	65.47	cps
Silicon	28-1	651738	644589	646084	647470	0.58	cps
Silver	107-1	1957	1633	1423	1671	16.08	cps
Silver	109-1	1877	1417	1147	1480	24.94	cps
Sodium	23-2	84975	84744	83369	84363	1.03	cps
Strontium	86-1	860	727	670	752	12.97	cps
Strontium	88-1	2787	2304	2070	2387	15.32	cps
Sulfur	34-1	831066	831570	833446	832027	0.15	cps
Terbium	159-1	21082891	21233463	20615436	20977264	1.54	cps
Terbium	159-2	6879964	8108457	7564632	7517684	8.19	cps
Thallium	203-1	1290	1120	910	1107	17.20	cps
Thallium	205-1	3024	2690	2444	2719	10.71	cps
Tin	118-1	2684	2354	2300	2446	8.49	cps
Titanium	47-1	1133	810	730	891	23.97	cps
Uranium	238-1	1920	1120	823	1288	44.05	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB005	Instrumnet Name :	P8
Client Sample ID :	CCB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:42:16	DataFile Name :	101CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63	63	60	62	3.09	cps
Ytterbium	172-1	123	113	107	114	7.33	cps
Ytterbium	172-2	57	40	43	47	18.90	cps
Ytterbium	176-1	1893	1934	1797	1875	3.75	cps
Ytterbium	176-2	250	413	343	336	24.42	cps
Yttrium	89-1	30581417	30111525	30266210	30319717	0.79	cps
Yttrium	89-2	2097458	2505411	2247259	2283376	9.04	cps
Zinc	66-2	343	367	337	349	4.52	cps
Zirconium	90-1	2547	2214	2024	2261	11.72	cps
Zirconium	91-1	510	373	417	433	16.12	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	100	127	110	13.21	cps
Antimony	121-1	580	707	727	671	11.85	cps
Arsenic	75-2	3	20	0	8	137.80	cps
Barium	135-1	110	63	80	84	28.01	cps
Barium	137-1	117	120	113	117	2.86	cps
Beryllium	9-1	1080	1017	1096	1064	3.91	cps
Bismuth	209-1	12972110	12839069	12915724	12908968	0.52	cps
Bismuth	209-2	5610570	5626813	5645676	5627686	0.31	cps
Bromine	81-1	5641	5648	5244	5511	4.19	cps
Cadmium	108-1	33	23	27	28	18.33	cps
Cadmium	106-1	8886	9010	8666	8854	1.97	cps
Cadmium	111-1	6237	6367	6094	6233	2.19	cps
Calcium	43-1	580	610	570	587	3.55	cps
Calcium	44-1	35046	34485	34662	34731	0.83	cps
Carbon	12-1	5261433	5345440	5312517	5306463	0.80	cps
Carbon	12-2	33548	33892	33177	33539	1.07	cps
Chlorine	35-1	580848	570178	563396	571474	1.54	cps
Chlorine	35-2	2324	2154	2084	2187	5.64	cps
Chromium	52-2	1133	1160	1270	1188	6.10	cps
Cobalt	59-2	133	180	120	144	21.81	cps
Copper	63-2	4134	3884	4227	4082	4.35	cps
Dysprosium	156-1	13	17	20	17	20.01	cps
Dysprosium	156-2	3	7	13	8	65.47	cps
Erbium	164-1	130	107	120	119	9.84	cps
Erbium	164-2	40	40	23	34	27.94	cps
Gadolinium	160-1	150	113	113	126	16.86	cps
Gadolinium	160-2	27	23	23	24	7.89	cps
Holmium	165-1	20827949	20516533	20894875	20746452	0.97	cps
Holmium	165-2	7610377	7572344	7662356	7615025	0.59	cps
Indium	115-1	17368095	17577208	17498962	17481421	0.60	cps
Indium	115-2	1765548	1783835	1838287	1795890	2.11	cps
Iron	54-2	737	677	730	714	4.60	cps
Iron	56-2	9894	9750	9910	9851	0.89	cps
Iron	57-2	247	227	260	244	6.86	cps
Krypton	83-1	280	327	310	306	7.74	cps
Lead	206-1	2990	2807	2874	2890	3.21	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2607	2494	2504	2535	2.48	cps
Lead	208-1	11796	11319	11099	11404	3.12	cps
Lithium	6-1	9918251	10090131	9950667	9986350	0.91	cps
Magnesium	24-2	3734	3847	3904	3828	2.26	cps
Manganese	55-2	210	230	223	221	4.61	cps
Molybdenum	94-1	737	730	703	723	2.44	cps
Molybdenum	95-1	470	437	453	453	3.68	cps
Molybdenum	96-1	563	500	473	512	9.02	cps
Molybdenum	97-1	310	313	287	303	4.79	cps
Molybdenum	98-1	727	693	577	666	11.83	cps
Neodymium	150-1	3	10	27	13	90.16	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1280	1300	1167	1249	5.76	cps
Phosphorus	31-2	107	100	77	94	16.68	cps
Potassium	39-2	18018	18288	18459	18255	1.22	cps
Rhodium	103-1	16665474	16573781	16683774	16641010	0.35	cps
Rhodium	103-2	6618371	6674134	6685914	6659473	0.54	cps
Scandium	45-1	12590160	12735279	12844455	12723298	1.00	cps
Scandium	45-2	247110	246507	249519	247712	0.64	cps
Selenium	82-1	17	3	-37	-6	-499.50	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	10	0	4	114.60	cps
Silicon	28-1	645843	644639	645787	645423	0.11	cps
Silver	107-1	610	570	507	562	9.27	cps
Silver	109-1	397	343	297	346	14.48	cps
Sodium	23-2	69564	69963	70640	70056	0.78	cps
Strontium	86-1	620	617	610	616	0.83	cps
Strontium	88-1	1293	1193	1320	1269	5.26	cps
Sulfur	34-1	935733	916711	913464	921969	1.30	cps
Terbium	159-1	21376220	21360445	21275912	21337525	0.25	cps
Terbium	159-2	7470122	7393752	7374846	7412907	0.68	cps
Thallium	203-1	597	437	523	519	15.44	cps
Thallium	205-1	1420	1370	1287	1359	4.96	cps
Tin	118-1	2444	2300	2350	2365	3.08	cps
Titanium	47-1	370	287	277	311	16.47	cps
Uranium	238-1	83	53	43	60	34.70	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BL	Instrumnet Name :	P8
Client Sample ID :	PBW282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:45:57	DataFile Name :	102CCBD.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	17	10	13	25.01	cps
Ytterbium	172-1	117	127	120	121	4.20	cps
Ytterbium	172-2	47	47	47	47	0.00	cps
Ytterbium	176-1	2120	1980	2014	2038	3.59	cps
Ytterbium	176-2	343	327	333	334	2.51	cps
Yttrium	89-1	31095025	31329525	30805903	31076818	0.84	cps
Yttrium	89-2	2286012	2260938	2276923	2274624	0.56	cps
Zinc	66-2	177	210	177	188	10.25	cps
Zirconium	90-1	1157	1230	1197	1195	3.07	cps
Zirconium	91-1	193	210	253	219	14.15	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	788810	798476	784662	790649	0.90	cps
Antimony	121-1	9111695	9187005	9411248	9236649	1.69	cps
Arsenic	75-2	192000	191759	191932	191897	0.06	cps
Barium	135-1	10679816	10617431	10970321	10755856	1.75	cps
Barium	137-1	18465371	18688577	18707032	18620327	0.72	cps
Beryllium	9-1	3435732	3365695	3340713	3380713	1.46	cps
Bismuth	209-1	12034868	12175296	12080544	12096902	0.59	cps
Bismuth	209-2	5253578	5368771	5266311	5296220	1.19	cps
Bromine	81-1	5808	5725	5671	5735	1.20	cps
Cadmium	108-1	179668	183154	182147	181656	0.99	cps
Cadmium	106-1	261942	261370	265592	262968	0.87	cps
Cadmium	111-1	2261525	2291746	2293844	2282372	0.79	cps
Calcium	43-1	3208305	3175605	3172602	3185504	0.62	cps
Calcium	44-1	51412978	51597063	51868241	51626094	0.44	cps
Carbon	12-1	6110031	6154946	6305416	6190131	1.65	cps
Carbon	12-2	41285	41940	41361	41529	0.86	cps
Chlorine	35-1	512134	505985	509035	509051	0.60	cps
Chlorine	35-2	1853	1987	1903	1915	3.52	cps
Chromium	52-2	2193624	2218691	2194944	2202420	0.64	cps
Cobalt	59-2	4067730	4087122	4054284	4069712	0.41	cps
Copper	63-2	31004570	30962315	30867650	30944845	0.23	cps
Dysprosium	156-1	163	187	190	180	8.07	cps
Dysprosium	156-2	43	30	30	34	22.34	cps
Erbium	164-1	243	207	237	229	8.53	cps
Erbium	164-2	73	80	97	83	14.43	cps
Gadolinium	160-1	223	197	217	212	6.54	cps
Gadolinium	160-2	43	53	40	46	15.23	cps
Holmium	165-1	19727949	20840070	20403160	20323726	2.76	cps
Holmium	165-2	7391876	7574985	7539335	7502065	1.29	cps
Indium	115-1	16091911	16605106	16413251	16370089	1.58	cps
Indium	115-2	1623974	1683812	1687363	1665050	2.14	cps
Iron	54-2	4390419	4426313	4353811	4390181	0.83	cps
Iron	56-2	78766435	79011189	78107604	78628409	0.59	cps
Iron	57-2	2032395	2006871	2003508	2014258	0.78	cps
Krypton	83-1	250	260	327	279	14.94	cps
Lead	206-1	34594727	34313957	34751519	34553401	0.64	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29440015	29706970	29796660	29647882	0.63	cps
Lead	208-1	136400550	136543365	136913704	136619206	0.19	cps
Lithium	6-1	9647429	9596327	9536866	9593541	0.58	cps
Magnesium	24-2	14987341	14882710	14682342	14850798	1.04	cps
Manganese	55-2	8651401	8806291	8568046	8675246	1.39	cps
Molybdenum	94-1	32377070	32890964	32785129	32684388	0.83	cps
Molybdenum	95-1	46261461	46609618	47145929	46672336	0.95	cps
Molybdenum	96-1	50533208	51444643	50655976	50877942	0.97	cps
Molybdenum	97-1	28466218	29507514	28262887	28745540	2.32	cps
Molybdenum	98-1	74630459	76083987	74463176	75059207	1.19	cps
Neodymium	150-1	677	803	693	724	9.50	cps
Neodymium	150-2	20	7	33	20	66.65	cps
Nickel	60-2	1128403	1115585	1118456	1120815	0.60	cps
Phosphorus	31-2	40273	40189	39310	39924	1.34	cps
Potassium	39-2	4220788	4221897	4152677	4198454	0.94	cps
Rhodium	103-1	14917019	15821929	15049048	15262665	3.20	cps
Rhodium	103-2	5971852	6143292	6169406	6094850	1.76	cps
Scandium	45-1	11763825	12396173	12284063	12148020	2.78	cps
Scandium	45-2	236935	243866	243604	241468	1.63	cps
Selenium	82-1	136160	137216	138038	137138	0.69	cps
Selenium	77-2	2550	2514	2387	2484	3.45	cps
Selenium	78-2	7746	8403	8436	8195	4.75	cps
Silicon	28-1	7968609	7995378	8069853	8011280	0.65	cps
Silver	107-1	11497659	11371213	11797747	11555540	1.90	cps
Silver	109-1	10775501	10840196	10828124	10814607	0.32	cps
Sodium	23-2	30517800	30238424	29677624	30144616	1.42	cps
Strontium	86-1	3065617	3073406	3065584	3068202	0.15	cps
Strontium	88-1	25945038	26333176	26346007	26208074	0.87	cps
Sulfur	34-1	1725711	1727646	1766896	1740084	1.34	cps
Terbium	159-1	20486605	20948348	21141041	20858665	1.61	cps
Terbium	159-2	7025131	7190974	7079256	7098454	1.19	cps
Thallium	203-1	8372167	8561059	8479963	8471063	1.12	cps
Thallium	205-1	20177702	19618636	20074694	19957011	1.49	cps
Tin	118-1	7257685	7326277	7240204	7274722	0.63	cps
Titanium	47-1	14657052	14812342	14884809	14784734	0.79	cps
Uranium	238-1	26758680	26886289	26327307	26657425	1.10	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166282BS	Instrumnet Name :	P8
Client Sample ID :	LCS282	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:49:27	DataFile Name :	103LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1695328	1700808	1682696	1692944	0.55	cps
Ytterbium	172-1	207	257	183	216	17.38	cps
Ytterbium	172-2	100	93	67	87	20.35	cps
Ytterbium	176-1	40144	40716	40622	40494	0.76	cps
Ytterbium	176-2	14625	14348	14745	14573	1.40	cps
Yttrium	89-1	29538938	30268563	29979701	29929067	1.23	cps
Yttrium	89-2	2166223	2213434	2173615	2184424	1.16	cps
Zinc	66-2	3452970	3401397	3389909	3414759	0.98	cps
Zirconium	90-1	16259081	16196349	16312471	16255967	0.36	cps
Zirconium	91-1	3656236	3648432	3678016	3660895	0.42	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-012425	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6562	6425	6615	6534	1.50	cps
Antimony	121-1	4527	4304	4391	4407	2.56	cps
Arsenic	75-2	1753	1827	1963	1848	5.77	cps
Barium	135-1	662122	664526	660210	662286	0.33	cps
Barium	137-1	1161346	1168919	1165196	1165154	0.33	cps
Beryllium	9-1	1916	1779	1825	1840	3.80	cps
Bismuth	209-1	12551705	12408013	12630236	12529985	0.90	cps
Bismuth	209-2	5773603	5356077	5375571	5501751	4.28	cps
Bromine	81-1	19948	20405	21547	20633	3.99	cps
Cadmium	108-1	103	77	97	92	15.05	cps
Cadmium	106-1	8693	8609	9066	8790	2.77	cps
Cadmium	111-1	6496	6370	6695	6520	2.52	cps
Calcium	43-1	4275137	4258375	4255749	4263087	0.25	cps
Calcium	44-1	68498687	69827559	68683667	69003305	1.04	cps
Carbon	12-1	10054681	11017184	11526980	10866282	6.88	cps
Carbon	12-2	76598	76662	78531	77264	1.42	cps
Chlorine	35-1	541931	550619	560590	551047	1.69	cps
Chlorine	35-2	2184	2300	2200	2228	2.83	cps
Chromium	52-2	3370	3374	3267	3337	1.82	cps
Cobalt	59-2	610166	617665	619360	615731	0.79	cps
Copper	63-2	8166	8186	8102	8151	0.53	cps
Dysprosium	156-1	2954	2927	2780	2887	3.23	cps
Dysprosium	156-2	980	940	940	953	2.42	cps
Erbium	164-1	2067	1987	1974	2009	2.51	cps
Erbium	164-2	757	723	680	720	5.34	cps
Gadolinium	160-1	2740	2487	2527	2585	5.27	cps
Gadolinium	160-2	1113	1250	1117	1160	6.72	cps
Holmium	165-1	20469810	20256690	20345049	20357183	0.53	cps
Holmium	165-2	7666290	7422114	7400447	7496284	1.97	cps
Indium	115-1	16815190	16670658	16727514	16737787	0.44	cps
Indium	115-2	1792882	1716472	1737866	1749073	2.25	cps
Iron	54-2	3967812	4047240	3964294	3993115	1.17	cps
Iron	56-2	71626461	72819944	71936167	72127524	0.86	cps
Iron	57-2	1849714	1871059	1840099	1853624	0.85	cps
Krypton	83-1	303	270	280	284	6.01	cps
Lead	206-1	11492	11385	11125	11334	1.67	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-012425	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9614	9303	9040	9319	3.08	cps
Lead	208-1	44834	43218	42571	43541	2.68	cps
Lithium	6-1	9808804	9849880	9709916	9789533	0.73	cps
Magnesium	24-2	2294863	2275568	2297348	2289260	0.52	cps
Manganese	55-2	3573047	3619385	3582432	3591621	0.68	cps
Molybdenum	94-1	4394	4294	4091	4260	3.63	cps
Molybdenum	95-1	4091	3647	3444	3727	8.87	cps
Molybdenum	96-1	4818	4111	4057	4329	9.80	cps
Molybdenum	97-1	2634	2197	2164	2331	11.25	cps
Molybdenum	98-1	6255	5378	5161	5598	10.35	cps
Neodymium	150-1	4314	4077	4134	4175	2.96	cps
Neodymium	150-2	1020	1073	1083	1059	3.22	cps
Nickel	60-2	165122	165649	167604	166125	0.79	cps
Phosphorus	31-2	127	120	127	124	3.09	cps
Potassium	39-2	507658	508182	510978	508939	0.35	cps
Rhodium	103-1	15627058	15650832	15552136	15610009	0.33	cps
Rhodium	103-2	6576977	6236634	6271378	6361663	2.94	cps
Scandium	45-1	11909744	12301999	12432284	12214676	2.23	cps
Scandium	45-2	251750	239802	241633	244395	2.63	cps
Selenium	82-1	90	103	100	98	7.10	cps
Selenium	77-2	7	7	10	8	24.71	cps
Selenium	78-2	13	17	23	18	28.64	cps
Silicon	28-1	98641812	98105972	97933915	98227233	0.38	cps
Silver	107-1	1323	1010	1137	1157	13.63	cps
Silver	109-1	1010	967	1010	996	2.51	cps
Sodium	23-2	1425535	1451670	1438861	1438689	0.91	cps
Strontium	86-1	2018077	2044459	2066547	2043027	1.19	cps
Strontium	88-1	17490179	17706751	17490413	17562448	0.71	cps
Sulfur	34-1	2564712	2611502	2591406	2589207	0.91	cps
Terbium	159-1	20683541	20924196	21209183	20938973	1.26	cps
Terbium	159-2	7488097	7147123	7087413	7240878	2.99	cps
Thallium	203-1	4931	5058	4808	4932	2.54	cps
Thallium	205-1	11792	11882	11802	11825	0.42	cps
Tin	118-1	7299	7022	6979	7100	2.45	cps
Titanium	47-1	7705	7182	7425	7438	3.52	cps
Uranium	238-1	11859	11202	11435	11499	2.90	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-01	Instrumnet Name :	P8
Client Sample ID :	TAPIAL3-MW04S-012425	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:53:19	DataFile Name :	104AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1503	1417	1500	1473	3.33	cps
Ytterbium	172-1	713	853	770	779	9.04	cps
Ytterbium	172-2	337	347	320	334	4.03	cps
Ytterbium	176-1	2420	2534	2430	2461	2.55	cps
Ytterbium	176-2	420	533	473	476	11.92	cps
Yttrium	89-1	29623970	30394017	30164567	30060851	1.32	cps
Yttrium	89-2	2301143	2149961	2198502	2216536	3.48	cps
Zinc	66-2	901349	916162	903298	906936	0.89	cps
Zirconium	90-1	6098	6241	5755	6031	4.15	cps
Zirconium	91-1	1280	1197	1280	1252	3.84	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	14387	14771	15183	14780	2.69	cps
Antimony	121-1	2324	2340	2294	2319	1.02	cps
Arsenic	75-2	1493	1397	1430	1440	3.41	cps
Barium	135-1	175882	171957	174710	174183	1.16	cps
Barium	137-1	300190	302055	300362	300869	0.34	cps
Beryllium	9-1	1126	1176	1135	1146	2.33	cps
Bismuth	209-1	12198984	12727255	12448021	12458087	2.12	cps
Bismuth	209-2	5429857	5526423	5411111	5455797	1.13	cps
Bromine	81-1	22839	26512	28589	25980	11.21	cps
Cadmium	108-1	67	73	57	66	12.79	cps
Cadmium	106-1	8993	9317	8870	9060	2.55	cps
Cadmium	111-1	6345	6527	6229	6367	2.36	cps
Calcium	43-1	2312389	2318200	2248582	2293057	1.68	cps
Calcium	44-1	37452899	37704161	36728667	37295242	1.36	cps
Carbon	12-1	12751819	13941498	14705313	13799543	7.13	cps
Carbon	12-2	95199	97061	96430	96230	0.98	cps
Chlorine	35-1	5537949	6315604	6680311	6177955	9.44	cps
Chlorine	35-2	28899	29467	29891	29419	1.69	cps
Chromium	52-2	6465	6632	6388	6495	1.92	cps
Cobalt	59-2	3991	4234	4057	4094	3.07	cps
Copper	63-2	6865	6848	7145	6953	2.40	cps
Dysprosium	156-1	3267	3290	3094	3217	3.34	cps
Dysprosium	156-2	800	947	823	857	9.20	cps
Erbium	164-1	1773	2014	1850	1879	6.52	cps
Erbium	164-2	667	580	697	648	9.35	cps
Gadolinium	160-1	2164	2130	2220	2171	2.10	cps
Gadolinium	160-2	1027	1020	933	993	5.24	cps
Holmium	165-1	20169047	21047938	20537306	20584763	2.14	cps
Holmium	165-2	7449821	7629643	7654265	7577910	1.47	cps
Indium	115-1	16469906	17235184	17066180	16923757	2.38	cps
Indium	115-2	1764132	1765430	1763002	1764188	0.07	cps
Iron	54-2	3321343	3371754	3361533	3351544	0.80	cps
Iron	56-2	60254714	61780302	59870824	60635280	1.67	cps
Iron	57-2	1553511	1565858	1545952	1555107	0.65	cps
Krypton	83-1	260	297	250	269	9.14	cps
Lead	206-1	5298	5385	5671	5451	3.59	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5725	5064	4779	5190	9.36	cps
Lead	208-1	23053	21677	21489	22073	3.87	cps
Lithium	6-1	9772568	9906972	9891218	9856919	0.75	cps
Magnesium	24-2	695305	702938	696060	698101	0.60	cps
Manganese	55-2	279418	283204	282781	281801	0.74	cps
Molybdenum	94-1	24268	24592	29632	26164	11.49	cps
Molybdenum	95-1	31566	32638	32120	32108	1.67	cps
Molybdenum	96-1	35014	35602	35151	35256	0.87	cps
Molybdenum	97-1	19624	20051	19954	19877	1.13	cps
Molybdenum	98-1	51897	51525	50766	51396	1.12	cps
Neodymium	150-1	4786	5980	3837	4868	22.06	cps
Neodymium	150-2	1030	900	957	962	6.77	cps
Nickel	60-2	2944	2850	2884	2893	1.64	cps
Phosphorus	31-2	153	157	140	150	5.88	cps
Potassium	39-2	325521	331115	327468	328035	0.87	cps
Rhodium	103-1	15448470	16169041	15852151	15823221	2.28	cps
Rhodium	103-2	6484754	6457818	6478488	6473687	0.22	cps
Scandium	45-1	12350236	12982402	12691294	12674644	2.50	cps
Scandium	45-2	246683	249507	246453	247548	0.69	cps
Selenium	82-1	50	23	67	47	46.83	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	27	13	17	19	36.75	cps
Silicon	28-1	53483393	50996366	52052583	52177447	2.39	cps
Silver	107-1	530	647	550	576	10.84	cps
Silver	109-1	360	473	400	411	13.98	cps
Sodium	23-2	33459529	33826382	33692657	33659523	0.55	cps
Strontium	86-1	485561	495284	490530	490458	0.99	cps
Strontium	88-1	4422124	4424243	4381756	4409374	0.54	cps
Sulfur	34-1	1038348	1027877	1014173	1026799	1.18	cps
Terbium	159-1	20688183	21793194	21187280	21222886	2.61	cps
Terbium	159-2	7307436	7364737	7264625	7312266	0.69	cps
Thallium	203-1	727	783	770	760	3.90	cps
Thallium	205-1	1887	1710	1803	1800	4.91	cps
Tin	118-1	5024	4854	5128	5002	2.76	cps
Titanium	47-1	15709	19587	15492	16929	13.61	cps
Uranium	238-1	22001	20453	20563	21006	4.11	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:56:30	DataFile Name :	105AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3811	3937	3570	3773	4.94	cps
Ytterbium	172-1	840	730	693	754	10.12	cps
Ytterbium	172-2	327	343	307	326	5.64	cps
Ytterbium	176-1	2334	2530	3092	2652	14.83	cps
Ytterbium	176-2	420	537	557	504	14.63	cps
Yttrium	89-1	29528988	30864485	30423100	30272191	2.25	cps
Yttrium	89-2	2264555	2273660	2268983	2269066	0.20	cps
Zinc	66-2	1060	1020	1060	1047	2.21	cps
Zirconium	90-1	15052	15453	18120	16208	10.29	cps
Zirconium	91-1	3284	3367	3140	3264	3.52	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7536	7316	8270	7707	6.48	cps
Antimony	121-1	1987	1713	2004	1901	8.57	cps
Arsenic	75-2	1407	1387	1377	1390	1.10	cps
Barium	135-1	168868	168534	169553	168985	0.31	cps
Barium	137-1	296466	294421	297176	296021	0.48	cps
Beryllium	9-1	1031	990	961	994	3.54	cps
Bismuth	209-1	12658731	11914101	12506831	12359888	3.18	cps
Bismuth	209-2	5433937	5563027	5513157	5503373	1.18	cps
Bromine	81-1	24064	26372	28205	26214	7.92	cps
Cadmium	108-1	47	33	53	44	22.92	cps
Cadmium	106-1	9040	9040	8576	8885	3.01	cps
Cadmium	111-1	6352	6374	6003	6243	3.34	cps
Calcium	43-1	2288936	2292708	2269981	2283875	0.53	cps
Calcium	44-1	36660629	37309896	37101594	37024040	0.90	cps
Carbon	12-1	13789435	14586542	15379413	14585130	5.45	cps
Carbon	12-2	98507	101581	102860	100982	2.22	cps
Chlorine	35-1	6319759	7085003	7281852	6895538	7.37	cps
Chlorine	35-2	30823	31504	32223	31517	2.22	cps
Chromium	52-2	5951	6278	6311	6180	3.22	cps
Cobalt	59-2	4234	4244	3974	4151	3.69	cps
Copper	63-2	6485	6582	6538	6535	0.74	cps
Dysprosium	156-1	3004	3120	3010	3045	2.15	cps
Dysprosium	156-2	770	760	760	763	0.76	cps
Erbium	164-1	1680	1917	1833	1810	6.63	cps
Erbium	164-2	683	570	623	626	9.06	cps
Gadolinium	160-1	2170	2254	2150	2191	2.50	cps
Gadolinium	160-2	820	840	817	826	1.53	cps
Holmium	165-1	21102485	20213181	20994235	20769967	2.34	cps
Holmium	165-2	7704231	7676912	7708904	7696682	0.22	cps
Indium	115-1	17066122	16403147	17098365	16855878	2.33	cps
Indium	115-2	1765268	1782245	1787340	1778285	0.65	cps
Iron	54-2	3286241	3274118	3329140	3296500	0.88	cps
Iron	56-2	60050126	60029167	59686176	59921823	0.34	cps
Iron	57-2	1522535	1549930	1529305	1533923	0.93	cps
Krypton	83-1	203	293	253	250	18.04	cps
Lead	206-1	4788	4758	4724	4757	0.67	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4307	3851	3991	4050	5.78	cps
Lead	208-1	19330	18292	18225	18616	3.33	cps
Lithium	6-1	9987759	10087023	10242011	10105598	1.27	cps
Magnesium	24-2	700867	691195	697543	696535	0.71	cps
Manganese	55-2	278744	279507	277375	278542	0.39	cps
Molybdenum	94-1	22455	23117	22919	22830	1.49	cps
Molybdenum	95-1	31472	32050	31422	31648	1.10	cps
Molybdenum	96-1	35088	34543	35131	34921	0.94	cps
Molybdenum	97-1	19193	19908	19297	19466	1.98	cps
Molybdenum	98-1	49943	51344	50726	50671	1.39	cps
Neodymium	150-1	3741	3324	3370	3478	6.57	cps
Neodymium	150-2	890	967	980	946	5.14	cps
Nickel	60-2	2877	2777	3054	2903	4.83	cps
Phosphorus	31-2	123	130	170	141	17.88	cps
Potassium	39-2	322100	323835	326364	324100	0.66	cps
Rhodium	103-1	16140748	15617116	16100306	15952724	1.83	cps
Rhodium	103-2	6517204	6434801	6443360	6465122	0.70	cps
Scandium	45-1	12852749	12122496	12705694	12560313	3.07	cps
Scandium	45-2	250826	251239	252366	251477	0.32	cps
Selenium	82-1	123	10	93	76	77.72	cps
Selenium	77-2	3	3	10	6	69.34	cps
Selenium	78-2	17	7	10	11	45.82	cps
Silicon	28-1	50249663	51946751	50713206	50969873	1.72	cps
Silver	107-1	440	427	477	448	5.78	cps
Silver	109-1	267	253	253	258	2.99	cps
Sodium	23-2	33719116	33650787	33828352	33732752	0.27	cps
Strontium	86-1	485978	482557	484880	484472	0.36	cps
Strontium	88-1	4390150	4399595	4369942	4386562	0.35	cps
Sulfur	34-1	1038051	1040172	1017431	1031885	1.22	cps
Terbium	159-1	21356891	20612118	21216962	21061990	1.88	cps
Terbium	159-2	7282472	7359682	7288093	7310082	0.59	cps
Thallium	203-1	577	557	580	571	2.21	cps
Thallium	205-1	1373	1353	1313	1347	2.27	cps
Tin	118-1	4704	5384	5104	5064	6.75	cps
Titanium	47-1	4974	13843	9061	9293	47.77	cps
Uranium	238-1	20346	19966	20530	20281	1.42	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 17:59:44	DataFile Name :	106AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3357	3244	3340	3314	1.85	cps
Ytterbium	172-1	680	680	800	720	9.62	cps
Ytterbium	172-2	333	353	307	331	7.07	cps
Ytterbium	176-1	2380	2327	2324	2344	1.36	cps
Ytterbium	176-2	457	567	533	519	10.87	cps
Yttrium	89-1	31231075	30199485	30757517	30729359	1.68	cps
Yttrium	89-2	2278871	2266869	2272079	2272606	0.26	cps
Zinc	66-2	1417	1330	1157	1301	10.18	cps
Zirconium	90-1	12129	12612	12166	12302	2.19	cps
Zirconium	91-1	2640	2934	2734	2769	5.41	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2034	1507	1470	1670	18.90	cps
Antimony	121-1	833	1003	953	930	9.39	cps
Arsenic	75-2	273	237	290	267	10.23	cps
Barium	135-1	32900	33548	34080	33509	1.76	cps
Barium	137-1	58503	58181	58348	58344	0.28	cps
Beryllium	9-1	869	760	799	809	6.81	cps
Bismuth	209-1	12678198	12315235	12552331	12515254	1.47	cps
Bismuth	209-2	5509333	5701795	5626596	5612575	1.73	cps
Bromine	81-1	12025	12145	11722	11964	1.83	cps
Cadmium	108-1	20	33	30	28	24.98	cps
Cadmium	106-1	9300	8750	8646	8899	3.95	cps
Cadmium	111-1	6543	6115	6068	6242	4.19	cps
Calcium	43-1	439959	435645	435498	437034	0.58	cps
Calcium	44-1	7203675	7341782	7250317	7265258	0.97	cps
Carbon	12-1	7668732	7578762	7781927	7676474	1.33	cps
Carbon	12-2	47393	48266	47751	47803	0.92	cps
Chlorine	35-1	2040037	2049740	2083590	2057789	1.11	cps
Chlorine	35-2	8259	8726	8486	8490	2.75	cps
Chromium	52-2	2947	2857	2927	2910	1.62	cps
Cobalt	59-2	893	913	920	909	1.53	cps
Copper	63-2	4401	4464	4617	4494	2.48	cps
Dysprosium	156-1	617	597	603	606	1.68	cps
Dysprosium	156-2	153	197	133	161	20.09	cps
Erbium	164-1	417	370	450	412	9.75	cps
Erbium	164-2	130	140	150	140	7.14	cps
Gadolinium	160-1	480	447	440	456	4.70	cps
Gadolinium	160-2	197	207	203	202	2.52	cps
Holmium	165-1	20361010	20127007	19980630	20156216	0.95	cps
Holmium	165-2	7692021	7815522	7640134	7715893	1.17	cps
Indium	115-1	17323329	16769724	17038151	17043735	1.62	cps
Indium	115-2	1791133	1871738	1814071	1825647	2.27	cps
Iron	54-2	641262	639943	640728	640644	0.10	cps
Iron	56-2	11771785	12150382	12021316	11981161	1.61	cps
Iron	57-2	293807	295034	293810	294217	0.24	cps
Krypton	83-1	320	230	227	259	20.45	cps
Lead	206-1	2667	2660	2440	2589	4.98	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2327	2130	2137	2198	5.08	cps
Lead	208-1	10408	10322	9845	10192	2.98	cps
Lithium	6-1	10294147	10253947	9745087	10097727	3.03	cps
Magnesium	24-2	141095	142246	142074	141805	0.44	cps
Manganese	55-2	55979	55193	56251	55807	0.98	cps
Molybdenum	94-1	4891	5188	4871	4983	3.56	cps
Molybdenum	95-1	6538	6181	6435	6385	2.88	cps
Molybdenum	96-1	7142	6838	7002	6994	2.17	cps
Molybdenum	97-1	3914	4057	4151	4041	2.95	cps
Molybdenum	98-1	10204	10244	10477	10308	1.43	cps
Neodymium	150-1	580	683	677	647	8.94	cps
Neodymium	150-2	193	157	170	173	10.71	cps
Nickel	60-2	1793	1890	1793	1826	3.06	cps
Phosphorus	31-2	120	77	103	100	21.86	cps
Potassium	39-2	79832	79484	80147	79821	0.42	cps
Rhodium	103-1	16336001	16020467	15998813	16118427	1.17	cps
Rhodium	103-2	6642594	6710278	6710751	6687874	0.59	cps
Scandium	45-1	12884482	12674593	12409730	12656268	1.88	cps
Scandium	45-2	255028	256484	251036	254183	1.11	cps
Selenium	82-1	-67	70	120	41	235.04	cps
Selenium	77-2	3	10	0	4	114.60	cps
Selenium	78-2	17	10	13	13	25.01	cps
Silicon	28-1	10357386	10390958	10355459	10367935	0.19	cps
Silver	107-1	367	317	327	337	7.86	cps
Silver	109-1	170	240	200	203	17.27	cps
Sodium	23-2	6636453	6766172	6624045	6675557	1.18	cps
Strontium	86-1	94741	95016	96131	95296	0.77	cps
Strontium	88-1	824411	829158	835182	829584	0.65	cps
Sulfur	34-1	951051	951360	926871	943094	1.49	cps
Terbium	159-1	21371542	20916724	20746570	21011612	1.54	cps
Terbium	159-2	7295283	7357766	7354554	7335868	0.48	cps
Thallium	203-1	393	463	457	438	8.83	cps
Thallium	205-1	953	963	940	952	1.23	cps
Tin	118-1	2517	2530	2684	2577	3.59	cps
Titanium	47-1	1190	4881	1240	2437	86.86	cps
Uranium	238-1	3887	3841	3951	3893	1.42	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:02:55	DataFile Name :	107AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	670	617	660	649	4.37	cps
Ytterbium	172-1	230	227	250	236	5.36	cps
Ytterbium	172-2	87	103	103	98	9.84	cps
Ytterbium	176-1	1907	2044	1930	1960	3.73	cps
Ytterbium	176-2	280	333	330	314	9.50	cps
Yttrium	89-1	30943825	30041316	30731429	30572190	1.54	cps
Yttrium	89-2	2331873	2296466	2338997	2322445	0.98	cps
Zinc	66-2	447	450	377	424	9.76	cps
Zirconium	90-1	3310	3204	3194	3236	2.00	cps
Zirconium	91-1	643	700	593	646	8.27	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	747552	741632	736353	741845	0.76	cps
Antimony	121-1	9054385	9011684	8793767	8953279	1.56	cps
Arsenic	75-2	1440	1340	1500	1427	5.67	cps
Barium	135-1	9722377	9559816	9618132	9633442	0.85	cps
Barium	137-1	16767882	16691503	16458847	16639411	0.97	cps
Beryllium	9-1	3380779	3408674	3348336	3379263	0.89	cps
Bismuth	209-1	11321665	12040418	12046751	11802945	3.53	cps
Bismuth	209-2	5216579	5282711	5283105	5260798	0.73	cps
Bromine	81-1	25233	27704	29254	27397	7.40	cps
Cadmium	108-1	162546	161134	162580	162087	0.51	cps
Cadmium	106-1	256598	250171	254343	253704	1.29	cps
Cadmium	111-1	2220223	2171476	2226475	2206058	1.36	cps
Calcium	43-1	5270242	5177729	5136383	5194785	1.32	cps
Calcium	44-1	86398189	84414475	82416417	84409694	2.36	cps
Carbon	12-1	11326400	12152152	12763821	12080791	5.97	cps
Carbon	12-2	84709	85949	86881	85846	1.27	cps
Chlorine	35-1	83682244	87252409	89003549	86646067	3.13	cps
Chlorine	35-2	381965	387762	382712	384146	0.82	cps
Chromium	52-2	2124934	2124172	2068692	2105933	1.53	cps
Cobalt	59-2	3992819	4012575	4017828	4007740	0.33	cps
Copper	63-2	30219140	29903585	29571104	29897943	1.08	cps
Dysprosium	156-1	3601	3200	3057	3286	8.57	cps
Dysprosium	156-2	777	830	767	791	4.30	cps
Erbium	164-1	1853	1827	1910	1863	2.28	cps
Erbium	164-2	690	647	770	702	8.91	cps
Gadolinium	160-1	2310	2204	1980	2165	7.78	cps
Gadolinium	160-2	983	1715	973	1224	34.76	cps
Holmium	165-1	19389040	20732335	20072698	20064691	3.35	cps
Holmium	165-2	7410532	7657701	7477473	7515235	1.70	cps
Indium	115-1	15650361	16863696	16427052	16313703	3.77	cps
Indium	115-2	1707243	1722109	1666883	1698745	1.68	cps
Iron	54-2	6897737	6884219	6809197	6863718	0.69	cps
Iron	56-2	125694048	125997255	124816678	125502660	0.49	cps
Iron	57-2	3209583	3211917	3163076	3194859	0.86	cps
Krypton	83-1	313	317	367	332	8.99	cps
Lead	206-1	32739858	32582576	32716156	32679530	0.26	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28272566	28154281	27908275	28111708	0.66	cps
Lead	208-1	129406416	129312785	129225909	129315037	0.07	cps
Lithium	6-1	9374678	9771702	9874075	9673485	2.73	cps
Magnesium	24-2	14641828	14203164	14263917	14369636	1.65	cps
Manganese	55-2	8684909	8625791	8580006	8630235	0.61	cps
Molybdenum	94-1	15409664	15265024	15176383	15283690	0.77	cps
Molybdenum	95-1	16657950	16453698	16365395	16492347	0.91	cps
Molybdenum	96-1	18697601	18473428	18646130	18605720	0.63	cps
Molybdenum	97-1	10100139	10188517	10054422	10114359	0.67	cps
Molybdenum	98-1	26765685	26720789	26649305	26711926	0.22	cps
Neodymium	150-1	8007	4017	3904	5309	44.01	cps
Neodymium	150-2	940	1137	1000	1026	9.83	cps
Nickel	60-2	1044339	1046852	1037208	1042799	0.48	cps
Phosphorus	31-2	187	137	140	154	18.10	cps
Potassium	39-2	4099177	4037349	3975290	4037272	1.53	cps
Rhodium	103-1	14687632	15555404	15234134	15159057	2.89	cps
Rhodium	103-2	6254645	6229388	6139599	6207877	0.97	cps
Scandium	45-1	12027101	12699084	12135885	12287357	2.94	cps
Scandium	45-2	247539	249352	249876	248923	0.49	cps
Selenium	82-1	135524	132112	133589	133742	1.28	cps
Selenium	77-2	2360	2564	2364	2429	4.79	cps
Selenium	78-2	8456	8129	8146	8244	2.23	cps
Silicon	28-1	49315929	50725704	50546021	50195885	1.53	cps
Silver	107-1	1951759	1923861	1936983	1937534	0.72	cps
Silver	109-1	1847541	1805575	1801691	1818269	1.40	cps
Sodium	23-2	59283264	58256114	58626339	58721906	0.89	cps
Strontium	86-1	4045521	4026755	4029844	4034040	0.25	cps
Strontium	88-1	34206203	34850178	34173113	34409831	1.11	cps
Sulfur	34-1	1014463	1010401	983672	1002845	1.67	cps
Terbium	159-1	20336849	20850360	20949020	20712076	1.59	cps
Terbium	159-2	7220920	7240720	7144002	7201881	0.71	cps
Thallium	203-1	8045105	7918623	8061465	8008398	0.98	cps
Thallium	205-1	18953566	18814763	19071204	18946511	0.68	cps
Tin	118-1	6371944	6346920	6377942	6365602	0.26	cps
Titanium	47-1	18033	31121	17950	22368	33.89	cps
Uranium	238-1	25180491	25341510	25312335	25278112	0.34	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:06:12	DataFile Name :	108AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1715288	1689270	1685977	1696845	0.95	cps
Ytterbium	172-1	997	1053	1003	1018	3.04	cps
Ytterbium	172-2	500	503	403	469	12.11	cps
Ytterbium	176-1	39569	39626	40502	39899	1.31	cps
Ytterbium	176-2	14358	14481	14668	14502	1.08	cps
Yttrium	89-1	28500819	30718156	30143680	29787552	3.86	cps
Yttrium	89-2	2212135	2264089	2192925	2223050	1.66	cps
Zinc	66-2	3232257	3253231	3212938	3232809	0.62	cps
Zirconium	90-1	16005739	15578077	15699876	15761230	1.40	cps
Zirconium	91-1	3541244	3484904	3505003	3510384	0.81	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	711659	721831	719511	717667	0.74	cps
Antimony	121-1	8594988	8665678	8662515	8641061	0.46	cps
Arsenic	75-2	1370	1417	1350	1379	2.48	cps
Barium	135-1	9170767	9396843	9317642	9295084	1.23	cps
Barium	137-1	15827225	16037944	16157202	16007457	1.04	cps
Beryllium	9-1	3273924	3261485	3297409	3277606	0.56	cps
Bismuth	209-1	11987159	12096863	12012782	12032268	0.48	cps
Bismuth	209-2	5246068	5301141	5232920	5260043	0.69	cps
Bromine	81-1	24966	27043	28025	26678	5.85	cps
Cadmium	108-1	155645	159140	157263	157349	1.11	cps
Cadmium	106-1	242763	248194	244734	245230	1.12	cps
Cadmium	111-1	2068124	2082196	2129226	2093182	1.53	cps
Calcium	43-1	4991182	4961723	5032780	4995228	0.71	cps
Calcium	44-1	81212732	79840410	81390110	80814418	1.05	cps
Carbon	12-1	11244392	12319761	12559433	12041195	5.82	cps
Carbon	12-2	84923	86070	87290	86094	1.38	cps
Chlorine	35-1	80200552	84711084	87488952	84133529	4.37	cps
Chlorine	35-2	371017	380289	379740	377016	1.38	cps
Chromium	52-2	2003468	2011897	2016510	2010625	0.33	cps
Cobalt	59-2	3903488	3840073	3861283	3868281	0.83	cps
Copper	63-2	29005895	28917175	28543843	28822304	0.85	cps
Dysprosium	156-1	3160	3407	3120	3229	4.81	cps
Dysprosium	156-2	783	803	797	794	1.28	cps
Erbium	164-1	1977	2010	1860	1949	4.04	cps
Erbium	164-2	610	677	670	652	5.63	cps
Gadolinium	160-1	2197	2104	2264	2188	3.68	cps
Gadolinium	160-2	1013	893	863	923	8.60	cps
Holmium	165-1	20711435	20214117	20057877	20327810	1.68	cps
Holmium	165-2	7515322	7413044	7490514	7472960	0.71	cps
Indium	115-1	16561494	16350087	16480978	16464186	0.65	cps
Indium	115-2	1663086	1683425	1702157	1682889	1.16	cps
Iron	54-2	6755759	6743462	6678613	6725945	0.62	cps
Iron	56-2	122903858	121104632	123031292	122346594	0.88	cps
Iron	57-2	3196935	3111886	3134399	3147740	1.40	cps
Krypton	83-1	250	310	327	296	13.64	cps
Lead	206-1	31751249	31575510	31422239	31582999	0.52	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27431808	27579465	27090140	27367137	0.92	cps
Lead	208-1	126176694	126947634	125257699	126127342	0.67	cps
Lithium	6-1	9702216	9575345	9752348	9676636	0.94	cps
Magnesium	24-2	13844332	14060580	14183780	14029564	1.22	cps
Manganese	55-2	8346784	8404861	8479068	8410238	0.79	cps
Molybdenum	94-1	14503727	14570144	14548469	14540780	0.23	cps
Molybdenum	95-1	15553246	15527727	15646751	15575908	0.40	cps
Molybdenum	96-1	17650953	17774703	17975041	17800232	0.92	cps
Molybdenum	97-1	9702193	9668031	9816330	9728851	0.80	cps
Molybdenum	98-1	25477453	25675118	25633192	25595254	0.41	cps
Neodymium	150-1	3984	3964	4084	4011	1.60	cps
Neodymium	150-2	983	947	1351	1094	20.44	cps
Nickel	60-2	1007877	1008710	1006921	1007836	0.09	cps
Phosphorus	31-2	233	327	243	268	19.14	cps
Potassium	39-2	3848117	3926919	3803579	3859538	1.62	cps
Rhodium	103-1	15468839	15253686	15109822	15277449	1.18	cps
Rhodium	103-2	6151623	6193367	6133928	6159640	0.50	cps
Scandium	45-1	12519986	12095128	12237468	12284194	1.76	cps
Scandium	45-2	244593	246043	243774	244803	0.47	cps
Selenium	82-1	128945	130018	129929	129631	0.46	cps
Selenium	77-2	2387	2447	2277	2370	3.64	cps
Selenium	78-2	7826	8139	7806	7923	2.36	cps
Silicon	28-1	47340696	50287129	47544458	48390761	3.40	cps
Silver	107-1	1867944	1878296	1853554	1866598	0.67	cps
Silver	109-1	1712618	1726823	1704888	1714776	0.65	cps
Sodium	23-2	57590321	58628762	57963759	58060947	0.91	cps
Strontium	86-1	3873515	3905286	3894325	3891042	0.41	cps
Strontium	88-1	33128081	33413540	33040720	33194114	0.59	cps
Sulfur	34-1	985020	979459	960860	975113	1.30	cps
Terbium	159-1	20772736	20918103	20913026	20867955	0.40	cps
Terbium	159-2	7111301	7191083	7296232	7199539	1.29	cps
Thallium	203-1	7612514	7858206	7700276	7723665	1.61	cps
Thallium	205-1	18215895	18645164	18395532	18418864	1.17	cps
Tin	118-1	6180488	6171756	6184232	6178825	0.10	cps
Titanium	47-1	13945	29740	28285	23990	36.39	cps
Uranium	238-1	24577916	24867512	24703092	24716174	0.59	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:08:54	DataFile Name :	109AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1677221	1646800	1631660	1651894	1.40	cps
Ytterbium	172-1	1040	933	937	970	6.25	cps
Ytterbium	172-2	480	437	513	477	8.06	cps
Ytterbium	176-1	38118	38777	38790	38562	1.00	cps
Ytterbium	176-2	13724	13764	14304	13931	2.33	cps
Yttrium	89-1	30082084	29971693	29858653	29970810	0.37	cps
Yttrium	89-2	2206775	2215465	2196138	2206126	0.44	cps
Zinc	66-2	3191274	3113086	3083022	3129127	1.79	cps
Zirconium	90-1	14939318	15123978	15182031	15081776	0.84	cps
Zirconium	91-1	3284683	3374760	3366374	3341939	1.49	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	704826	715592	715377	711932	0.86	cps
Antimony	121-1	8880912	8995122	8923632	8933222	0.65	cps
Arsenic	75-2	1483	1393	1327	1401	5.61	cps
Barium	135-1	9231109	9315813	9207320	9251414	0.62	cps
Barium	137-1	16045884	15922202	16030110	15999398	0.42	cps
Beryllium	9-1	3238638	3237153	3264618	3246803	0.48	cps
Bismuth	209-1	12111091	11729346	12093775	11978071	1.80	cps
Bismuth	209-2	5281509	5227854	5242993	5250785	0.53	cps
Bromine	81-1	24842	26829	28205	26625	6.35	cps
Cadmium	108-1	156329	157930	158042	157434	0.61	cps
Cadmium	106-1	244030	245622	246346	245333	0.48	cps
Cadmium	111-1	2079626	2130539	2105097	2105087	1.21	cps
Calcium	43-1	4999340	4960913	4987844	4982699	0.40	cps
Calcium	44-1	80326660	80154335	79451902	79977633	0.58	cps
Carbon	12-1	11487335	12357680	12905593	12250202	5.84	cps
Carbon	12-2	85376	87495	88098	86990	1.64	cps
Chlorine	35-1	81465049	86483122	87584529	85177567	3.83	cps
Chlorine	35-2	372828	376201	380315	376448	1.00	cps
Chromium	52-2	2053167	2019599	2024790	2032519	0.89	cps
Cobalt	59-2	3868650	3839991	3878330	3862324	0.52	cps
Copper	63-2	28555084	28711900	28493105	28586696	0.39	cps
Dysprosium	156-1	3374	3634	3174	3394	6.80	cps
Dysprosium	156-2	1037	873	897	936	9.45	cps
Erbium	164-1	1964	1750	2010	1908	7.27	cps
Erbium	164-2	590	817	600	669	19.15	cps
Gadolinium	160-1	2244	2284	2334	2287	1.97	cps
Gadolinium	160-2	1007	983	973	988	1.73	cps
Holmium	165-1	20307105	20296673	19971961	20191913	0.94	cps
Holmium	165-2	7511941	7311691	7346768	7390134	1.45	cps
Indium	115-1	16026168	16030813	16215887	16090956	0.67	cps
Indium	115-2	1689184	1637344	1686446	1670991	1.75	cps
Iron	54-2	6654683	6706663	6701925	6687757	0.43	cps
Iron	56-2	123005635	121426528	121670625	122034263	0.70	cps
Iron	57-2	3118339	3084641	3119369	3107450	0.64	cps
Krypton	83-1	323	337	367	342	6.49	cps
Lead	206-1	31579561	31951848	32168309	31899906	0.93	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27175280	27445151	27687227	27435886	0.93	cps
Lead	208-1	125475641	125641393	127380075	126165703	0.84	cps
Lithium	6-1	9764754	9728654	9626719	9706709	0.74	cps
Magnesium	24-2	13794833	14103656	13785568	13894686	1.30	cps
Manganese	55-2	8252656	8269149	8355442	8292416	0.67	cps
Molybdenum	94-1	14512446	14699175	14593937	14601853	0.64	cps
Molybdenum	95-1	15807179	15985191	15646244	15812872	1.07	cps
Molybdenum	96-1	17736096	17919326	17870620	17842014	0.53	cps
Molybdenum	97-1	9636908	9417068	9894844	9649607	2.48	cps
Molybdenum	98-1	25373640	25235734	25871513	25493629	1.31	cps
Neodymium	150-1	3927	4321	4074	4107	4.84	cps
Neodymium	150-2	787	1073	950	937	15.35	cps
Nickel	60-2	999675	999781	1002261	1000572	0.15	cps
Phosphorus	31-2	823	793	907	841	6.98	cps
Potassium	39-2	3750598	3815236	3871676	3812503	1.59	cps
Rhodium	103-1	15075203	14782035	15155268	15004169	1.31	cps
Rhodium	103-2	6262679	6074594	6105538	6147604	1.64	cps
Scandium	45-1	12052280	12002541	12075774	12043531	0.31	cps
Scandium	45-2	245316	241027	242115	242819	0.92	cps
Selenium	82-1	127591	130221	129538	129117	1.06	cps
Selenium	77-2	2137	2437	2304	2292	6.56	cps
Selenium	78-2	7756	7899	7972	7876	1.40	cps
Silicon	28-1	50381676	52641501	49407098	50810091	3.27	cps
Silver	107-1	1861238	1900547	1846231	1869338	1.50	cps
Silver	109-1	1713825	1734620	1735131	1727859	0.70	cps
Sodium	23-2	56589781	57785512	57283646	57219646	1.05	cps
Strontium	86-1	3855380	3886303	3896501	3879395	0.55	cps
Strontium	88-1	33208481	33619562	33495391	33441145	0.63	cps
Sulfur	34-1	979671	957003	959856	965510	1.28	cps
Terbium	159-1	20977252	21145212	20738882	20953782	0.97	cps
Terbium	159-2	7113746	7107943	7171831	7131173	0.50	cps
Thallium	203-1	7693122	7887858	7709286	7763422	1.39	cps
Thallium	205-1	18388431	18716988	18655144	18586854	0.94	cps
Tin	118-1	6099756	6161889	6150087	6137244	0.54	cps
Titanium	47-1	18310	28198	52541	33016	53.36	cps
Uranium	238-1	25000515	24841831	25016755	24953034	0.39	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1193-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW01-012425-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:11:39	DataFile Name :	110AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1634156	1624462	1651969	1636863	0.85	cps
Ytterbium	172-1	1113	1023	1037	1058	4.59	cps
Ytterbium	172-2	941	430	493	621	44.82	cps
Ytterbium	176-1	38085	38135	38275	38165	0.26	cps
Ytterbium	176-2	13894	14468	14321	14228	2.10	cps
Yttrium	89-1	30010702	29829969	29991331	29944001	0.33	cps
Yttrium	89-2	2264005	2160448	2141072	2188509	3.02	cps
Zinc	66-2	3109240	3121641	3087713	3106198	0.55	cps
Zirconium	90-1	15075734	15469931	15019193	15188286	1.62	cps
Zirconium	91-1	3339537	3436787	3373887	3383404	1.46	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3834868	3881918	3806823	3841203	0.99	cps
Antimony	121-1	8321343	8401719	8437561	8386874	0.71	cps
Arsenic	75-2	180720	179232	176513	178822	1.19	cps
Barium	135-1	9952057	9883110	10038159	9957775	0.78	cps
Barium	137-1	17204684	17395224	17467642	17355850	0.78	cps
Beryllium	9-1	3129208	3121700	3147262	3132723	0.42	cps
Bismuth	209-1	10863676	10978579	11007407	10949887	0.69	cps
Bismuth	209-2	4861912	4855920	4844192	4854008	0.19	cps
Bromine	81-1	9213	8719	8319	8751	5.12	cps
Cadmium	108-1	160961	164698	165234	163631	1.42	cps
Cadmium	106-1	238005	241248	238198	239150	0.76	cps
Cadmium	111-1	2039057	2042162	2014735	2031984	0.74	cps
Calcium	43-1	14388859	14671341	14368102	14476101	1.17	cps
Calcium	44-1	232279677	238553176	230127963	233653605	1.87	cps
Carbon	12-1	7096899	7144903	7253721	7165175	1.12	cps
Carbon	12-2	52828	51951	52965	52581	1.05	cps
Chlorine	35-1	5857370	5528454	5123164	5502996	6.68	cps
Chlorine	35-2	18459	18218	16700	17792	5.36	cps
Chromium	52-2	2023197	2018278	2037160	2026212	0.48	cps
Cobalt	59-2	3748529	3720976	3772299	3747268	0.69	cps
Copper	63-2	27512566	27670460	27819369	27667465	0.55	cps
Dysprosium	156-1	467	497	460	474	4.12	cps
Dysprosium	156-2	120	130	103	118	11.44	cps
Erbium	164-1	397	423	420	413	3.52	cps
Erbium	164-2	200	163	177	180	10.31	cps
Gadolinium	160-1	370	420	460	417	10.82	cps
Gadolinium	160-2	130	117	133	127	6.96	cps
Holmium	165-1	18843898	19346669	19540908	19243825	1.87	cps
Holmium	165-2	7340118	7267692	7209266	7272359	0.90	cps
Indium	115-1	14688916	14962826	15339911	14997217	2.18	cps
Indium	115-2	1576672	1632097	1579398	1596056	1.96	cps
Iron	54-2	20027837	20080403	20311967	20140069	0.75	cps
Iron	56-2	363812675	366830008	367193835	365945506	0.51	cps
Iron	57-2	9181668	9216122	9305387	9234392	0.69	cps
Krypton	83-1	330	240	313	294	16.26	cps
Lead	206-1	31314195	31532485	31233087	31359923	0.49	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26541661	27200955	26818730	26853782	1.23	cps
Lead	208-1	122650642	125501971	122454673	123535762	1.38	cps
Lithium	6-1	8967199	8782924	8847382	8865835	1.05	cps
Magnesium	24-2	67137931	67905231	66331194	67124785	1.17	cps
Manganese	55-2	7968041	8064113	8201483	8077879	1.45	cps
Molybdenum	94-1	30886780	30582991	31102544	30857438	0.85	cps
Molybdenum	95-1	43892184	44016756	44176591	44028510	0.32	cps
Molybdenum	96-1	47199818	48313366	48523289	48012158	1.48	cps
Molybdenum	97-1	26234736	27116118	27449412	26933422	2.33	cps
Molybdenum	98-1	70373587	69899256	71027784	70433542	0.80	cps
Neodymium	150-1	690	840	800	777	10.00	cps
Neodymium	150-2	43	77	60	60	27.78	cps
Nickel	60-2	959547	961771	966465	962594	0.37	cps
Phosphorus	31-2	37107	37485	36760	37117	0.98	cps
Potassium	39-2	19741726	19560303	19499887	19600639	0.64	cps
Rhodium	103-1	13381875	13890073	14094763	13788904	2.66	cps
Rhodium	103-2	5664695	5638914	5645145	5649585	0.24	cps
Scandium	45-1	11146676	11520856	11648516	11438682	2.28	cps
Scandium	45-2	233619	236411	232217	234082	0.91	cps
Selenium	82-1	122758	123154	123703	123205	0.39	cps
Selenium	77-2	2284	2320	2494	2366	4.74	cps
Selenium	78-2	7832	7852	7766	7817	0.58	cps
Silicon	28-1	7511109	7669865	7596495	7592490	1.05	cps
Silver	107-1	10189817	10193089	9938659	10107188	1.44	cps
Silver	109-1	9523932	9621895	9487168	9544332	0.73	cps
Sodium	23-2	136326141	135901761	134565448	135597784	0.68	cps
Strontium	86-1	2834753	2869579	2872868	2859067	0.74	cps
Strontium	88-1	23864573	25002436	24600280	24489097	2.36	cps
Sulfur	34-1	1643209	1689088	1658040	1663446	1.41	cps
Terbium	159-1	19569048	19657389	20074581	19767006	1.37	cps
Terbium	159-2	7001171	6929089	6890384	6940214	0.81	cps
Thallium	203-1	7783033	7813486	7808599	7801706	0.21	cps
Thallium	205-1	18308359	18109093	18174847	18197433	0.56	cps
Tin	118-1	6522564	6695350	6678152	6632022	1.44	cps
Titanium	47-1	13714209	13815224	14016582	13848672	1.11	cps
Uranium	238-1	24803367	25573135	24986725	25121075	1.60	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV006	Instrumnet Name :	P8
Client Sample ID :	CCV006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:14:21	DataFile Name :	111CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1660576	1600590	1612008	1624391	1.96	cps
Ytterbium	172-1	540	500	517	519	3.87	cps
Ytterbium	172-2	193	200	213	202	5.04	cps
Ytterbium	176-1	38927	39235	40412	39525	1.98	cps
Ytterbium	176-2	14198	14251	14131	14193	0.42	cps
Yttrium	89-1	27834386	28247964	28689188	28257179	1.51	cps
Yttrium	89-2	2138775	2113696	2094812	2115761	1.04	cps
Zinc	66-2	3034743	3023738	3040987	3033156	0.29	cps
Zirconium	90-1	15701564	15334014	15465429	15500336	1.20	cps
Zirconium	91-1	3447564	3510626	3483967	3480719	0.91	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	130	167	120	139	17.69	cps
Antimony	121-1	1220	1267	1203	1230	2.67	cps
Arsenic	75-2	3	3	10	6	69.34	cps
Barium	135-1	280	180	230	230	21.74	cps
Barium	137-1	490	357	333	393	21.49	cps
Beryllium	9-1	2240	2125	2042	2136	4.64	cps
Bismuth	209-1	11132727	12471865	12528760	12044451	6.56	cps
Bismuth	209-2	5560582	5562889	5515088	5546187	0.49	cps
Bromine	81-1	6241	6718	6368	6443	3.83	cps
Cadmium	108-1	23	17	27	22	22.91	cps
Cadmium	106-1	7649	8129	8643	8140	6.11	cps
Cadmium	111-1	5458	5792	6161	5804	6.06	cps
Calcium	43-1	837	773	787	799	4.18	cps
Calcium	44-1	39143	37592	38608	38448	2.05	cps
Carbon	12-1	5182861	5130009	5133362	5148744	0.57	cps
Carbon	12-2	32332	32346	31714	32131	1.12	cps
Chlorine	35-1	1920695	1792378	1677974	1797015	6.76	cps
Chlorine	35-2	6161	5891	5731	5928	3.67	cps
Chromium	52-2	2347	2374	2304	2341	1.51	cps
Cobalt	59-2	267	253	223	248	8.96	cps
Copper	63-2	4531	4637	4928	4699	4.37	cps
Dysprosium	156-1	17	3	0	7	132.33	cps
Dysprosium	156-2	7	10	7	8	24.71	cps
Erbium	164-1	77	83	147	102	37.80	cps
Erbium	164-2	30	33	40	34	14.78	cps
Gadolinium	160-1	140	103	157	133	20.47	cps
Gadolinium	160-2	33	13	13	20	57.74	cps
Holmium	165-1	18071493	19690647	20357116	19373085	6.07	cps
Holmium	165-2	7543805	7386519	7431590	7453971	1.09	cps
Indium	115-1	14843373	16501616	17058191	16134393	7.14	cps
Indium	115-2	1717976	1751768	1727638	1732461	1.00	cps
Iron	54-2	1197	1177	1170	1181	1.18	cps
Iron	56-2	18222	19023	19337	18860	3.05	cps
Iron	57-2	440	493	447	460	6.32	cps
Krypton	83-1	307	263	280	283	7.71	cps
Lead	206-1	4501	4301	4141	4314	4.18	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3991	3484	3434	3636	8.47	cps
Lead	208-1	17978	16855	16451	17095	4.63	cps
Lithium	6-1	8926280	9592247	9895162	9471229	5.23	cps
Magnesium	24-2	4297	4848	4504	4550	6.11	cps
Manganese	55-2	470	497	463	477	3.70	cps
Molybdenum	94-1	1467	1173	1297	1312	11.22	cps
Molybdenum	95-1	1270	1043	1020	1111	12.43	cps
Molybdenum	96-1	1607	1233	1293	1378	14.55	cps
Molybdenum	97-1	890	593	637	707	22.68	cps
Molybdenum	98-1	2034	1613	1590	1746	14.29	cps
Neodymium	150-1	13	27	3	14	81.07	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	1560	1583	1683	1609	4.07	cps
Phosphorus	31-2	97	73	63	78	22.00	cps
Potassium	39-2	20071	19954	19834	19953	0.59	cps
Rhodium	103-1	14007312	15967844	15983537	15319564	7.42	cps
Rhodium	103-2	6402876	6572741	6505723	6493780	1.32	cps
Scandium	45-1	10802222	11858081	12062974	11574426	5.85	cps
Scandium	45-2	238794	242269	241685	240916	0.77	cps
Selenium	82-1	0	-17	-3	-7	-132.23	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	17	17	13	43.29	cps
Silicon	28-1	664154	665444	664317	664638	0.11	cps
Silver	107-1	827	1000	877	901	9.90	cps
Silver	109-1	763	727	647	712	8.38	cps
Sodium	23-2	87483	87000	85441	86642	1.23	cps
Strontium	86-1	613	600	540	584	6.68	cps
Strontium	88-1	1387	1087	1123	1199	13.65	cps
Sulfur	34-1	845934	849539	847100	847524	0.22	cps
Terbium	159-1	18356439	19917553	20613223	19629072	5.89	cps
Terbium	159-2	7196522	7297144	7153856	7215841	1.02	cps
Thallium	203-1	1537	1450	1410	1466	4.42	cps
Thallium	205-1	3644	3454	3317	3472	4.73	cps
Tin	118-1	2234	2030	2110	2125	4.82	cps
Titanium	47-1	507	383	477	456	14.12	cps
Uranium	238-1	487	313	370	390	22.66	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB006	Instrumnet Name :	P8
Client Sample ID :	CCB006	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:18:31	DataFile Name :	112CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47	47	53	49	7.86	cps
Ytterbium	172-1	97	97	120	104	12.90	cps
Ytterbium	172-2	73	37	40	50	40.55	cps
Ytterbium	176-1	1707	1940	2074	1907	9.73	cps
Ytterbium	176-2	287	323	313	308	6.16	cps
Yttrium	89-1	26511997	29640960	29774347	28642435	6.45	cps
Yttrium	89-2	2181240	2209239	2230496	2206992	1.12	cps
Zinc	66-2	363	327	310	333	8.18	cps
Zirconium	90-1	1603	1690	1583	1626	3.49	cps
Zirconium	91-1	310	343	357	337	7.14	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	90	130	113	18.37	cps
Antimony	121-1	470	497	467	478	3.44	cps
Arsenic	75-2	7	7	7	7	0.00	cps
Barium	135-1	113	83	103	100	15.28	cps
Barium	137-1	173	153	153	160	7.22	cps
Beryllium	9-1	1487	1554	1477	1506	2.75	cps
Bismuth	209-1	12481677	12763549	12679605	12641610	1.14	cps
Bismuth	209-2	5562554	5605564	5557153	5575090	0.48	cps
Bromine	81-1	5608	5858	5715	5727	2.19	cps
Cadmium	108-1	30	20	23	24	20.83	cps
Cadmium	106-1	8316	8213	8693	8407	3.01	cps
Cadmium	111-1	5883	5778	6135	5932	3.09	cps
Calcium	43-1	667	697	660	674	2.90	cps
Calcium	44-1	35063	34899	34902	34955	0.27	cps
Carbon	12-1	5271856	5393765	5340657	5335426	1.15	cps
Carbon	12-2	33615	33765	33562	33647	0.31	cps
Chlorine	35-1	1085451	1043881	1018406	1049246	3.23	cps
Chlorine	35-2	3897	4024	3681	3867	4.49	cps
Chromium	52-2	957	1010	1090	1019	6.59	cps
Cobalt	59-2	220	157	207	194	17.17	cps
Copper	63-2	4011	4101	3981	4031	1.55	cps
Dysprosium	156-1	10	20	7	12	56.76	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	103	63	77	81	25.11	cps
Erbium	164-2	43	57	43	48	16.12	cps
Gadolinium	160-1	83	113	140	112	25.26	cps
Gadolinium	160-2	23	30	23	26	15.07	cps
Holmium	165-1	20213805	20187432	20334728	20245322	0.39	cps
Holmium	165-2	7603875	7497275	7584258	7561803	0.75	cps
Indium	115-1	16782509	16884089	16732298	16799632	0.46	cps
Indium	115-2	1798211	1792324	1744410	1778315	1.66	cps
Iron	54-2	697	713	767	726	5.04	cps
Iron	56-2	10531	11148	10477	10718	3.48	cps
Iron	57-2	267	200	223	230	14.71	cps
Krypton	83-1	333	363	323	340	6.12	cps
Lead	206-1	3504	3237	3160	3300	5.46	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2884	2837	2840	2854	0.91	cps
Lead	208-1	13309	12939	13049	13099	1.45	cps
Lithium	6-1	10130947	9931908	9959526	10007460	1.08	cps
Magnesium	24-2	3867	4084	3804	3918	3.75	cps
Manganese	55-2	247	290	280	272	8.34	cps
Molybdenum	94-1	740	710	877	776	11.45	cps
Molybdenum	95-1	457	470	427	451	4.92	cps
Molybdenum	96-1	540	550	497	529	5.36	cps
Molybdenum	97-1	250	240	267	252	5.34	cps
Molybdenum	98-1	633	630	623	629	0.81	cps
Neodymium	150-1	3	23	7	11	96.43	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1337	1257	1457	1350	7.46	cps
Phosphorus	31-2	50	67	83	67	25.00	cps
Potassium	39-2	18953	19119	19467	19179	1.37	cps
Rhodium	103-1	16253016	15898831	16246447	16132765	1.26	cps
Rhodium	103-2	6668796	6685266	6544614	6632892	1.16	cps
Scandium	45-1	12325101	12381759	12401870	12369577	0.32	cps
Scandium	45-2	246613	246024	246049	246229	0.14	cps
Selenium	82-1	-70	-153	-13	-79	-89.27	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	3	10	13	9	57.30	cps
Silicon	28-1	667213	659360	656986	661186	0.81	cps
Silver	107-1	537	470	557	521	8.71	cps
Silver	109-1	330	360	350	347	4.41	cps
Sodium	23-2	73634	72234	72365	72744	1.06	cps
Strontium	86-1	570	573	503	549	7.19	cps
Strontium	88-1	940	1087	1100	1042	8.52	cps
Sulfur	34-1	846139	848625	848722	847829	0.17	cps
Terbium	159-1	21202456	20911194	20756488	20956713	1.08	cps
Terbium	159-2	7229223	7268822	7297345	7265130	0.47	cps
Thallium	203-1	1010	977	1003	997	1.77	cps
Thallium	205-1	2627	2414	2147	2396	10.04	cps
Tin	118-1	2294	2314	2460	2356	3.86	cps
Titanium	47-1	310	380	320	337	11.25	cps
Uranium	238-1	117	97	97	103	11.17	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BL	Instrumnet Name :	P8
Client Sample ID :	PBW378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:21:50	DataFile Name :	113CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	23	23	17	69.30	cps
Ytterbium	172-1	110	113	123	116	6.01	cps
Ytterbium	172-2	57	40	43	47	18.90	cps
Ytterbium	176-1	1950	1943	1833	1909	3.43	cps
Ytterbium	176-2	280	337	323	313	9.46	cps
Yttrium	89-1	30013750	30289450	29926630	30076610	0.63	cps
Yttrium	89-2	2280269	2252500	2229497	2254089	1.13	cps
Zinc	66-2	963	1020	913	966	5.53	cps
Zirconium	90-1	1167	1163	1277	1202	5.36	cps
Zirconium	91-1	200	217	230	216	6.97	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	787348	790288	790928	789521	0.24	cps
Antimony	121-1	8955494	8993682	8835811	8928329	0.92	cps
Arsenic	75-2	190723	191009	192340	191357	0.45	cps
Barium	135-1	10554059	10624601	10552231	10576964	0.39	cps
Barium	137-1	18269626	18618574	18350340	18412847	0.99	cps
Beryllium	9-1	3301563	3311751	3307655	3306990	0.16	cps
Bismuth	209-1	12066354	12110779	11898192	12025108	0.93	cps
Bismuth	209-2	5272382	5251311	5291660	5271784	0.38	cps
Bromine	81-1	5251	5394	5291	5312	1.39	cps
Cadmium	108-1	175675	177066	179081	177274	0.97	cps
Cadmium	106-1	260454	261695	261152	261100	0.24	cps
Cadmium	111-1	2256503	2223205	2232640	2237449	0.77	cps
Calcium	43-1	3141341	3149261	3161986	3150862	0.33	cps
Calcium	44-1	50682588	51351826	52087873	51374095	1.37	cps
Carbon	12-1	5703956	5977252	5998809	5893339	2.79	cps
Carbon	12-2	41839	40917	40890	41215	1.31	cps
Chlorine	35-1	800693	797421	790363	796159	0.66	cps
Chlorine	35-2	3164	3337	3137	3213	3.38	cps
Chromium	52-2	2195737	2200073	2193453	2196421	0.15	cps
Cobalt	59-2	4131937	4136925	4141864	4136909	0.12	cps
Copper	63-2	31165467	30370500	30817404	30784457	1.29	cps
Dysprosium	156-1	167	203	193	188	10.09	cps
Dysprosium	156-2	30	73	37	47	49.99	cps
Erbium	164-1	207	207	200	204	1.88	cps
Erbium	164-2	93	50	80	74	29.81	cps
Gadolinium	160-1	213	180	163	186	13.72	cps
Gadolinium	160-2	57	67	30	51	37.09	cps
Holmium	165-1	20032036	20150038	19855042	20012372	0.74	cps
Holmium	165-2	7408260	7546853	7518443	7491186	0.98	cps
Indium	115-1	16346967	16173419	15979167	16166518	1.14	cps
Indium	115-2	1707017	1690941	1680787	1692915	0.78	cps
Iron	54-2	4383858	4392986	4443080	4406641	0.72	cps
Iron	56-2	79414069	80151207	78772069	79445782	0.87	cps
Iron	57-2	2024870	2063987	2019460	2036106	1.19	cps
Krypton	83-1	293	310	337	313	6.98	cps
Lead	206-1	33738685	34024552	33699774	33821003	0.52	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28630360	28976463	29287962	28964928	1.14	cps
Lead	208-1	133058583	134162682	134327668	133849644	0.52	cps
Lithium	6-1	9475163	9731346	9296417	9500975	2.30	cps
Magnesium	24-2	14644096	14697776	14852085	14731319	0.73	cps
Manganese	55-2	8723079	8762150	8702857	8729362	0.35	cps
Molybdenum	94-1	32138259	32021697	32729871	32296609	1.18	cps
Molybdenum	95-1	45665263	46000524	46472253	46046013	0.88	cps
Molybdenum	96-1	50535294	50414424	51860431	50936716	1.57	cps
Molybdenum	97-1	28606066	28181270	29000242	28595860	1.43	cps
Molybdenum	98-1	74491217	73502842	75478501	74490853	1.33	cps
Neodymium	150-1	643	683	633	653	4.05	cps
Neodymium	150-2	20	23	30	24	20.83	cps
Nickel	60-2	1065006	1064126	1070170	1066434	0.31	cps
Phosphorus	31-2	38682	39240	39307	39076	0.88	cps
Potassium	39-2	4192791	4190328	4193411	4192177	0.04	cps
Rhodium	103-1	15179304	15294266	15197151	15223574	0.41	cps
Rhodium	103-2	6194663	6164435	6147808	6168969	0.39	cps
Scandium	45-1	12085458	11922192	12240556	12082736	1.32	cps
Scandium	45-2	243443	244181	243320	243648	0.19	cps
Selenium	82-1	134029	137002	134165	135065	1.24	cps
Selenium	77-2	2420	2394	2444	2419	1.03	cps
Selenium	78-2	8399	8333	8329	8354	0.47	cps
Silicon	28-1	7768240	7809244	7825762	7801082	0.38	cps
Silver	107-1	11383879	11415208	11311754	11370281	0.47	cps
Silver	109-1	10760205	10606395	10749953	10705518	0.80	cps
Sodium	23-2	29996001	29866635	29897824	29920153	0.23	cps
Strontium	86-1	2989869	3050371	3048229	3029490	1.13	cps
Strontium	88-1	25582315	26075485	26306392	25988064	1.42	cps
Sulfur	34-1	1686865	1690164	1678394	1685141	0.36	cps
Terbium	159-1	21002492	20735963	20436668	20725041	1.37	cps
Terbium	159-2	7165827	7126885	7154969	7149227	0.28	cps
Thallium	203-1	8324905	8274418	8252487	8283936	0.45	cps
Thallium	205-1	19731430	19919296	19532047	19727591	0.98	cps
Tin	118-1	7141210	7177610	7212358	7177059	0.50	cps
Titanium	47-1	14709919	14839997	15056991	14868969	1.18	cps
Uranium	238-1	26015354	26397854	26274160	26229122	0.74	cps

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LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166378BS	Instrumnet Name :	P8
Client Sample ID :	LCS378	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:25:12	DataFile Name :	114LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1697670	1691243	1738928	1709280	1.51	cps
Ytterbium	172-1	180	207	197	194	6.93	cps
Ytterbium	172-2	63	123	90	92	32.60	cps
Ytterbium	176-1	39275	41074	40435	40261	2.27	cps
Ytterbium	176-2	14168	14335	14528	14343	1.26	cps
Yttrium	89-1	29455209	29200625	29695151	29450328	0.84	cps
Yttrium	89-2	2212601	2181656	2183470	2192576	0.79	cps
Zinc	66-2	3287401	3253973	3310342	3283905	0.86	cps
Zirconium	90-1	15855702	15993035	16112148	15986962	0.80	cps
Zirconium	91-1	3589797	3591784	3654426	3612003	1.02	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1817	1623	1670	1703	5.92	cps
Antimony	121-1	2684	2404	2210	2432	9.79	cps
Arsenic	75-2	523	607	480	537	12.00	cps
Barium	135-1	190432	192674	193779	192295	0.89	cps
Barium	137-1	334382	334859	333140	334127	0.27	cps
Beryllium	9-1	2676	2546	2471	2564	4.04	cps
Bismuth	209-1	12663285	12834575	12455976	12651279	1.50	cps
Bismuth	209-2	5635308	5674534	5623698	5644514	0.47	cps
Bromine	81-1	71625	73836	76923	74128	3.59	cps
Cadmium	108-1	43	43	67	51	26.37	cps
Cadmium	106-1	8329	8299	9236	8622	6.18	cps
Cadmium	111-1	6310	6266	6839	6472	4.93	cps
Calcium	43-1	651982	658834	669976	660264	1.38	cps
Calcium	44-1	10915482	11048017	10851816	10938438	0.92	cps
Carbon	12-1	11437456	12810610	13058392	12435486	7.02	cps
Carbon	12-2	86379	86740	87713	86944	0.79	cps
Chlorine	35-1	952045	975063	988373	971827	1.89	cps
Chlorine	35-2	4107	4037	4071	4072	0.86	cps
Chromium	52-2	2257	2394	2384	2345	3.25	cps
Cobalt	59-2	49328	49365	49198	49297	0.18	cps
Copper	63-2	8192	8379	8336	8302	1.18	cps
Dysprosium	156-1	2780	2380	2620	2594	7.76	cps
Dysprosium	156-2	993	987	903	961	5.22	cps
Erbium	164-1	2114	2070	2244	2142	4.21	cps
Erbium	164-2	723	777	750	750	3.56	cps
Gadolinium	160-1	2907	2624	2664	2731	5.62	cps
Gadolinium	160-2	1123	1137	1157	1139	1.47	cps
Holmium	165-1	20410726	20623479	20589832	20541346	0.56	cps
Holmium	165-2	7627924	7681529	7507619	7605691	1.17	cps
Indium	115-1	17197890	17078519	17008640	17095016	0.56	cps
Indium	115-2	1804729	1836794	1789630	1810384	1.33	cps
Iron	54-2	1291386	1285109	1311066	1295854	1.05	cps
Iron	56-2	24298279	24274318	24279973	24284190	0.05	cps
Iron	57-2	595962	591929	599071	595654	0.60	cps
Krypton	83-1	310	287	293	297	4.05	cps
Lead	206-1	6111	6158	5595	5955	5.25	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5548	5388	4924	5287	6.13	cps
Lead	208-1	24963	23939	22111	23671	6.10	cps
Lithium	6-1	10216554	9855473	9889141	9987056	2.00	cps
Magnesium	24-2	2540767	2504190	2499730	2514896	0.90	cps
Manganese	55-2	7365887	7298111	7371480	7345159	0.56	cps
Molybdenum	94-1	2587	2170	1913	2224	15.29	cps
Molybdenum	95-1	2954	2570	2067	2530	17.58	cps
Molybdenum	96-1	3354	2937	2520	2937	14.19	cps
Molybdenum	97-1	1707	1363	1250	1440	16.51	cps
Molybdenum	98-1	4421	4014	3257	3897	15.15	cps
Neodymium	150-1	3374	3374	3200	3316	3.02	cps
Neodymium	150-2	853	917	873	881	3.67	cps
Nickel	60-2	43984	43309	44289	43861	1.14	cps
Phosphorus	31-2	143	117	120	127	11.47	cps
Potassium	39-2	405692	405329	411433	407485	0.84	cps
Rhodium	103-1	16217737	16296777	16071353	16195289	0.71	cps
Rhodium	103-2	6656579	6652029	6467602	6592070	1.64	cps
Scandium	45-1	12434108	12702817	12592981	12576636	1.07	cps
Scandium	45-2	249579	249503	250864	249982	0.31	cps
Selenium	82-1	80	93	-17	52	114.96	cps
Selenium	77-2	3	0	10	4	114.60	cps
Selenium	78-2	3	23	27	18	71.00	cps
Silicon	28-1	31816674	32087473	31270287	31724811	1.31	cps
Silver	107-1	1570	1327	1237	1378	12.52	cps
Silver	109-1	1327	1187	1127	1213	8.46	cps
Sodium	23-2	2084017	2091126	2119709	2098284	0.90	cps
Strontium	86-1	314382	313684	308174	312080	1.09	cps
Strontium	88-1	2809731	2806560	2773268	2796520	0.72	cps
Sulfur	34-1	1215417	1214299	1209162	1212959	0.28	cps
Terbium	159-1	21433338	21437108	21410690	21427045	0.07	cps
Terbium	159-2	7370722	7517532	7423588	7437281	1.00	cps
Thallium	203-1	1500	1400	1357	1419	5.18	cps
Thallium	205-1	3654	3250	3120	3342	8.32	cps
Tin	118-1	4611	4731	4628	4656	1.40	cps
Titanium	47-1	1747	1787	1447	1660	11.20	cps
Uranium	238-1	2040	2004	1753	1932	8.07	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1201-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW12-012725-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:28:00	DataFile Name :	115AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	960	940	1007	969	3.53	cps
Ytterbium	172-1	997	1007	1017	1007	0.99	cps
Ytterbium	172-2	463	447	513	474	7.31	cps
Ytterbium	176-1	2484	2510	2287	2427	5.03	cps
Ytterbium	176-2	600	530	537	556	6.95	cps
Yttrium	89-1	30656168	30492276	29992369	30380271	1.14	cps
Yttrium	89-2	2356110	2303990	2251321	2303807	2.27	cps
Zinc	66-2	8426	8516	8099	8347	2.63	cps
Zirconium	90-1	2180	2140	2310	2210	4.02	cps
Zirconium	91-1	420	463	440	441	4.92	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1503	1654	1417	1525	7.86	cps
Antimony	121-1	940	943	1050	978	6.40	cps
Arsenic	75-2	37	23	63	41	49.54	cps
Barium	135-1	96330	95984	95510	95941	0.43	cps
Barium	137-1	166335	166755	166346	166479	0.14	cps
Beryllium	9-1	1462	1440	1451	1451	0.78	cps
Bismuth	209-1	13005101	12806254	12503938	12771765	1.98	cps
Bismuth	209-2	5546686	5504523	5543276	5531495	0.42	cps
Bromine	81-1	31402	33246	35365	33338	5.95	cps
Cadmium	108-1	57	40	20	39	47.21	cps
Cadmium	106-1	8866	8686	8459	8671	2.35	cps
Cadmium	111-1	6277	6172	6031	6160	2.00	cps
Calcium	43-1	1860513	1813245	1808619	1827459	1.57	cps
Calcium	44-1	29462356	29424995	29782362	29556571	0.66	cps
Carbon	12-1	10624126	11636484	11871696	11377435	5.83	cps
Carbon	12-2	78367	78408	79953	78909	1.15	cps
Chlorine	35-1	1947143	2076439	2171543	2065042	5.45	cps
Chlorine	35-2	9110	8950	9156	9072	1.20	cps
Chromium	52-2	2740	2677	2874	2764	3.63	cps
Cobalt	59-2	16293	16927	16440	16553	2.01	cps
Copper	63-2	6495	6558	6765	6606	2.14	cps
Dysprosium	156-1	897	890	987	924	5.84	cps
Dysprosium	156-2	227	243	240	237	3.73	cps
Erbium	164-1	550	570	627	582	6.83	cps
Erbium	164-2	207	217	207	210	2.75	cps
Gadolinium	160-1	687	757	660	701	7.12	cps
Gadolinium	160-2	270	290	310	290	6.90	cps
Holmium	165-1	20991995	20640413	20437761	20690056	1.36	cps
Holmium	165-2	7607015	7603210	7631046	7613757	0.20	cps
Indium	115-1	17432461	17121433	17054240	17202711	1.17	cps
Indium	115-2	1776596	1779810	1763278	1773228	0.49	cps
Iron	54-2	10661	10637	11135	10811	2.60	cps
Iron	56-2	193972	196027	191912	193970	1.06	cps
Iron	57-2	5008	4958	4958	4974	0.58	cps
Krypton	83-1	297	277	257	277	7.23	cps
Lead	206-1	6375	6615	6505	6498	1.85	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5451	5668	5455	5525	2.25	cps
Lead	208-1	25607	25967	25357	25644	1.20	cps
Lithium	6-1	9924490	9825268	9976480	9908746	0.78	cps
Magnesium	24-2	1691771	1636002	1674885	1667553	1.72	cps
Manganese	55-2	524122	524576	523171	523956	0.14	cps
Molybdenum	94-1	1373	1357	1297	1342	3.00	cps
Molybdenum	95-1	1003	963	980	982	2.05	cps
Molybdenum	96-1	1143	1120	1320	1195	9.16	cps
Molybdenum	97-1	693	620	640	651	5.82	cps
Molybdenum	98-1	1667	1440	1340	1482	11.29	cps
Neodymium	150-1	1327	1413	1430	1390	3.99	cps
Neodymium	150-2	303	330	327	320	4.54	cps
Nickel	60-2	3114	3437	3277	3276	4.94	cps
Phosphorus	31-2	93	127	107	109	15.41	cps
Potassium	39-2	494950	487656	485488	489365	1.01	cps
Rhodium	103-1	16557549	16054739	15724015	16112101	2.60	cps
Rhodium	103-2	6643400	6477841	6426505	6515915	1.74	cps
Scandium	45-1	13101936	12631281	12454136	12729118	2.63	cps
Scandium	45-2	247629	247663	248308	247866	0.15	cps
Selenium	82-1	647	637	827	703	15.20	cps
Selenium	77-2	13	33	17	21	50.75	cps
Selenium	78-2	57	70	50	59	17.29	cps
Silicon	28-1	55294051	55416879	55695774	55468901	0.37	cps
Silver	107-1	587	487	567	547	9.68	cps
Silver	109-1	423	367	413	401	7.54	cps
Sodium	23-2	6175695	6136671	6154692	6155686	0.32	cps
Strontium	86-1	528091	531473	527178	528914	0.43	cps
Strontium	88-1	4724120	4732397	4645721	4700746	1.02	cps
Sulfur	34-1	1656582	1629453	1621562	1635865	1.12	cps
Terbium	159-1	21854645	21415621	20821493	21363920	2.43	cps
Terbium	159-2	7136338	7314207	7332838	7261128	1.49	cps
Thallium	203-1	1173	1290	1120	1195	7.28	cps
Thallium	205-1	2984	2894	2944	2940	1.53	cps
Tin	118-1	11512	11392	11782	11562	1.73	cps
Titanium	47-1	2294	2360	2387	2347	2.05	cps
Uranium	238-1	700	680	630	670	5.38	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-01	Instrumnet Name :	P8
Client Sample ID :	TAPHHA-MW01-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:31:16	DataFile Name :	116AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	253	233	270	252	7.28	cps
Ytterbium	172-1	227	253	233	238	5.84	cps
Ytterbium	172-2	107	130	90	109	18.45	cps
Ytterbium	176-1	2117	2030	1937	2028	4.44	cps
Ytterbium	176-2	323	413	320	352	15.03	cps
Yttrium	89-1	31414936	30529560	30135160	30693219	2.14	cps
Yttrium	89-2	2252303	2266186	2244612	2254367	0.49	cps
Zinc	66-2	3494	3360	3704	3519	4.92	cps
Zirconium	90-1	2134	2020	2124	2092	3.00	cps
Zirconium	91-1	493	947	420	620	46.06	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15919	16206	16380	16168	1.44	cps
Antimony	121-1	1047	1060	1033	1047	1.27	cps
Arsenic	75-2	1797	1743	1793	1778	1.68	cps
Barium	135-1	166081	169827	170421	168777	1.39	cps
Barium	137-1	301157	298752	297462	299124	0.63	cps
Beryllium	9-1	1440	1441	1416	1432	0.98	cps
Bismuth	209-1	12642646	12698270	12548383	12629766	0.60	cps
Bismuth	209-2	5640039	5711276	5411939	5587751	2.80	cps
Bromine	81-1	20081	21426	21460	20989	3.75	cps
Cadmium	108-1	47	53	53	51	7.52	cps
Cadmium	106-1	9156	9073	8960	9063	1.09	cps
Cadmium	111-1	6447	6377	6298	6374	1.17	cps
Calcium	43-1	888034	878339	878923	881765	0.62	cps
Calcium	44-1	14700221	14428829	14196691	14441914	1.75	cps
Carbon	12-1	12736820	13551283	14059599	13449234	4.96	cps
Carbon	12-2	91234	92770	92713	92239	0.94	cps
Chlorine	35-1	932378	939805	943794	938659	0.62	cps
Chlorine	35-2	3577	3791	3781	3716	3.24	cps
Chromium	52-2	7192	6932	6978	7034	1.97	cps
Cobalt	59-2	59905	59393	59711	59670	0.43	cps
Copper	63-2	8953	9700	9200	9284	4.10	cps
Dysprosium	156-1	4314	4084	4191	4196	2.74	cps
Dysprosium	156-2	1473	1467	1400	1447	2.80	cps
Erbium	164-1	3257	3304	3487	3349	3.63	cps
Erbium	164-2	1217	1233	1067	1172	7.83	cps
Gadolinium	160-1	3791	3834	4004	3876	2.91	cps
Gadolinium	160-2	1830	1603	1590	1675	8.06	cps
Holmium	165-1	20210077	20714924	20672811	20532604	1.36	cps
Holmium	165-2	7717327	7564456	7583057	7621614	1.09	cps
Indium	115-1	16925137	17275026	17134504	17111556	1.03	cps
Indium	115-2	1761473	1786028	1798214	1781905	1.05	cps
Iron	54-2	6488031	6566587	6595636	6550084	0.85	cps
Iron	56-2	119954912	121139775	118691882	119928856	1.02	cps
Iron	57-2	3119417	3124277	2989760	3077818	2.48	cps
Krypton	83-1	200	290	273	254	18.82	cps
Lead	206-1	6021	5905	6001	5976	1.04	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5571	5485	5054	5370	5.16	cps
Lead	208-1	24726	24309	23645	24227	2.25	cps
Lithium	6-1	9823046	9763397	10194518	9926987	2.35	cps
Magnesium	24-2	871282	868000	861430	866904	0.58	cps
Manganese	55-2	1894204	1948683	1962295	1935060	1.86	cps
Molybdenum	94-1	6128	6071	6242	6147	1.41	cps
Molybdenum	95-1	2924	3177	2904	3001	5.08	cps
Molybdenum	96-1	4177	4264	4284	4242	1.34	cps
Molybdenum	97-1	1873	1817	1823	1838	1.69	cps
Molybdenum	98-1	4891	4864	4587	4781	3.51	cps
Neodymium	150-1	6672	6435	6622	6576	1.90	cps
Neodymium	150-2	1763	1660	1780	1735	3.75	cps
Nickel	60-2	5508	5328	5081	5305	4.04	cps
Phosphorus	31-2	173	157	207	179	14.23	cps
Potassium	39-2	453780	462595	455673	457349	1.01	cps
Rhodium	103-1	16141947	16306370	16649311	16365876	1.58	cps
Rhodium	103-2	6605576	6607659	6597630	6603622	0.08	cps
Scandium	45-1	12434122	12442557	12440452	12439044	0.04	cps
Scandium	45-2	249304	253295	247147	249915	1.25	cps
Selenium	82-1	100	63	43	69	41.73	cps
Selenium	77-2	7	13	3	8	65.47	cps
Selenium	78-2	17	13	27	19	36.75	cps
Silicon	28-1	34251530	34126250	35158341	34512041	1.63	cps
Silver	107-1	433	413	487	444	8.53	cps
Silver	109-1	283	270	333	296	11.30	cps
Sodium	23-2	1115256	1118072	1074416	1102581	2.22	cps
Strontium	86-1	320835	327488	319126	322483	1.37	cps
Strontium	88-1	2963257	2905168	2912477	2926967	1.08	cps
Sulfur	34-1	1866184	1861613	1891658	1873152	0.86	cps
Terbium	159-1	21062093	20896653	21718416	21225721	2.05	cps
Terbium	159-2	7353496	7427895	7240847	7340746	1.28	cps
Thallium	203-1	783	710	717	737	5.51	cps
Thallium	205-1	1867	1873	1827	1856	1.36	cps
Tin	118-1	5545	5428	5911	5628	4.48	cps
Titanium	47-1	13387	15110	14607	14368	6.17	cps
Uranium	238-1	5688	5685	5811	5728	1.26	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:34:29	DataFile Name :	117AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10467	10491	10297	10418	1.01	cps
Ytterbium	172-1	1287	1243	1233	1255	2.26	cps
Ytterbium	172-2	497	557	560	538	6.63	cps
Ytterbium	176-1	2814	2807	2650	2757	3.35	cps
Ytterbium	176-2	600	660	667	642	5.72	cps
Yttrium	89-1	30860784	30844259	30363790	30689611	0.92	cps
Yttrium	89-2	2275858	2311930	2250056	2279281	1.36	cps
Zinc	66-2	3074	3170	3147	3130	1.61	cps
Zirconium	90-1	11558	11328	11602	11496	1.28	cps
Zirconium	91-1	2697	2947	2570	2738	7.00	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	45418	47289	46288	46332	2.02	cps
Antimony	121-1	1140	1203	1083	1142	5.26	cps
Arsenic	75-2	1930	1793	1927	1883	4.14	cps
Barium	135-1	169967	174117	171285	171790	1.23	cps
Barium	137-1	298970	301403	303413	301262	0.74	cps
Beryllium	9-1	1384	1322	1336	1347	2.39	cps
Bismuth	209-1	12679488	12595211	12621558	12632086	0.34	cps
Bismuth	209-2	5607968	5547928	5565648	5573848	0.55	cps
Bromine	81-1	17922	18325	18656	18301	2.01	cps
Cadmium	108-1	53	107	210	123	64.60	cps
Cadmium	106-1	9263	8840	9033	9045	2.34	cps
Cadmium	111-1	6497	6150	6233	6293	2.88	cps
Calcium	43-1	866826	890474	886791	881364	1.44	cps
Calcium	44-1	14386109	14814393	14629615	14610039	1.47	cps
Carbon	12-1	12177418	13671333	14010589	13286446	7.34	cps
Carbon	12-2	90406	92515	92089	91670	1.22	cps
Chlorine	35-1	802951	829636	851180	827922	2.92	cps
Chlorine	35-2	3524	3504	3684	3570	2.76	cps
Chromium	52-2	8779	8653	8526	8653	1.47	cps
Cobalt	59-2	60638	61033	60226	60633	0.67	cps
Copper	63-2	9920	10863	10057	10280	4.95	cps
Dysprosium	156-1	4501	4511	4357	4456	1.93	cps
Dysprosium	156-2	1567	1413	1537	1506	5.40	cps
Erbium	164-1	4298	3417	3400	3705	13.86	cps
Erbium	164-2	1043	1087	1313	1148	12.63	cps
Gadolinium	160-1	3961	4094	3717	3924	4.87	cps
Gadolinium	160-2	1780	1817	1773	1790	1.30	cps
Holmium	165-1	20952507	20708459	20453703	20704890	1.20	cps
Holmium	165-2	7685150	7577626	7583741	7615506	0.79	cps
Indium	115-1	17231206	16984474	17088786	17101489	0.72	cps
Indium	115-2	1796213	1768074	1793797	1786028	0.87	cps
Iron	54-2	6690325	6746330	6680166	6705607	0.53	cps
Iron	56-2	123632645	121303942	120316172	121750919	1.40	cps
Iron	57-2	3108072	3099752	3125146	3110990	0.42	cps
Krypton	83-1	277	250	290	272	7.48	cps
Lead	206-1	6545	6345	6729	6540	2.94	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5278	5291	5408	5326	1.34	cps
Lead	208-1	26250	26012	26397	26220	0.74	cps
Lithium	6-1	10039206	9724731	9665886	9809941	2.05	cps
Magnesium	24-2	883378	880838	875095	879771	0.48	cps
Manganese	55-2	1973600	1941288	1886546	1933811	2.28	cps
Molybdenum	94-1	8493	19157	8393	12014	51.49	cps
Molybdenum	95-1	2974	2910	2924	2936	1.14	cps
Molybdenum	96-1	5515	4584	6508	5536	17.38	cps
Molybdenum	97-1	1773	1760	2017	1850	7.81	cps
Molybdenum	98-1	4604	4451	4397	4484	2.39	cps
Neodymium	150-1	6905	7422	7426	7251	4.13	cps
Neodymium	150-2	1807	1787	1753	1782	1.51	cps
Nickel	60-2	5755	5881	6205	5947	3.91	cps
Phosphorus	31-2	207	180	187	191	7.26	cps
Potassium	39-2	464375	463398	470787	466187	0.86	cps
Rhodium	103-1	16735737	15836006	15808999	16126914	3.27	cps
Rhodium	103-2	6702034	6500979	6494958	6565991	1.79	cps
Scandium	45-1	12778099	12919232	12459202	12718844	1.85	cps
Scandium	45-2	245205	248761	249256	247741	0.89	cps
Selenium	82-1	23	83	83	63	54.69	cps
Selenium	77-2	13	10	27	17	52.93	cps
Selenium	78-2	10	23	20	18	39.03	cps
Silicon	28-1	40405990	40968046	41704489	41026175	1.59	cps
Silver	107-1	420	417	380	406	5.47	cps
Silver	109-1	253	247	200	233	12.46	cps
Sodium	23-2	1123277	1120430	1127429	1123712	0.31	cps
Strontium	86-1	318609	320085	323140	320611	0.72	cps
Strontium	88-1	2913862	2896640	2868154	2892885	0.80	cps
Sulfur	34-1	1872855	1879216	1866412	1872828	0.34	cps
Terbium	159-1	21911164	20683378	20691031	21095191	3.35	cps
Terbium	159-2	7273457	7330740	7241377	7281858	0.62	cps
Thallium	203-1	680	600	700	660	8.02	cps
Thallium	205-1	1753	1580	1723	1686	5.50	cps
Tin	118-1	5771	5698	5938	5802	2.12	cps
Titanium	47-1	72652	77852	79760	76755	4.79	cps
Uranium	238-1	5671	6068	6700	6146	8.44	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02DUP	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:37:44	DataFile Name :	118AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	12222	12275	11621	12040	3.02	cps
Ytterbium	172-1	1270	1283	1627	1393	14.51	cps
Ytterbium	172-2	607	583	643	611	4.95	cps
Ytterbium	176-1	2890	2750	2860	2834	2.60	cps
Ytterbium	176-2	670	703	1067	813	27.07	cps
Yttrium	89-1	32010645	30603868	30390041	31001518	2.84	cps
Yttrium	89-2	2292528	2269765	2261508	2274600	0.71	cps
Zinc	66-2	3187	3304	3314	3268	2.16	cps
Zirconium	90-1	26622	21586	23899	24036	10.49	cps
Zirconium	91-1	4851	6384	8068	6435	25.01	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4765	4064	3974	4268	10.14	cps
Antimony	121-1	367	377	337	360	5.78	cps
Arsenic	75-2	353	417	340	370	11.07	cps
Barium	135-1	33381	33174	33996	33517	1.28	cps
Barium	137-1	57867	59396	57810	58358	1.54	cps
Beryllium	9-1	1084	1104	1040	1076	3.03	cps
Bismuth	209-1	12932278	12721450	12765641	12806456	0.87	cps
Bismuth	209-2	5554157	5506199	5577850	5546068	0.66	cps
Bromine	81-1	9096	8990	9073	9053	0.62	cps
Cadmium	108-1	43	20	30	31	37.62	cps
Cadmium	106-1	8609	8810	8803	8741	1.30	cps
Cadmium	111-1	6033	6193	6191	6139	1.49	cps
Calcium	43-1	173637	176499	176353	175496	0.92	cps
Calcium	44-1	2941316	2992232	2957522	2963690	0.88	cps
Carbon	12-1	7472909	7545906	7609239	7542685	0.90	cps
Carbon	12-2	46169	46497	46176	46280	0.40	cps
Chlorine	35-1	558854	551197	542913	550988	1.45	cps
Chlorine	35-2	2047	2044	2144	2078	2.73	cps
Chromium	52-2	3050	3024	3440	3172	7.36	cps
Cobalt	59-2	11802	12362	12089	12084	2.32	cps
Copper	63-2	5094	5101	4861	5019	2.72	cps
Dysprosium	156-1	790	820	793	801	2.05	cps
Dysprosium	156-2	373	310	253	312	19.23	cps
Erbium	164-1	717	757	710	728	3.47	cps
Erbium	164-2	287	293	290	290	1.15	cps
Gadolinium	160-1	840	870	877	862	2.26	cps
Gadolinium	160-2	333	343	293	323	8.18	cps
Holmium	165-1	20804734	20239151	20462629	20502171	1.39	cps
Holmium	165-2	7411530	7416369	7469291	7432396	0.43	cps
Indium	115-1	17731850	17100475	16997284	17276537	2.30	cps
Indium	115-2	1751452	1736016	1751801	1746423	0.52	cps
Iron	54-2	1283690	1295595	1300306	1293197	0.66	cps
Iron	56-2	24596722	24559919	24530237	24562293	0.14	cps
Iron	57-2	586608	596668	597993	593756	1.05	cps
Krypton	83-1	280	340	307	309	9.73	cps
Lead	206-1	3177	3044	2970	3064	3.42	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2497	2657	2580	2578	3.10	cps
Lead	208-1	12116	12222	11776	12038	1.94	cps
Lithium	6-1	10144239	9953432	9866511	9988061	1.42	cps
Magnesium	24-2	178458	177908	179432	178599	0.43	cps
Manganese	55-2	367593	376246	370992	371610	1.17	cps
Molybdenum	94-1	1623	1977	1713	1771	10.38	cps
Molybdenum	95-1	837	813	843	831	1.90	cps
Molybdenum	96-1	1163	1180	1050	1131	6.25	cps
Molybdenum	97-1	513	540	490	514	4.86	cps
Molybdenum	98-1	1403	1280	1337	1340	4.61	cps
Neodymium	150-1	1307	1270	1313	1297	1.80	cps
Neodymium	150-2	303	377	290	323	14.43	cps
Nickel	60-2	2674	2554	2614	2614	2.30	cps
Phosphorus	31-2	77	120	97	98	22.18	cps
Potassium	39-2	107285	108628	109071	108328	0.86	cps
Rhodium	103-1	16606072	16432750	16054148	16364323	1.72	cps
Rhodium	103-2	6355776	6510518	6560856	6475717	1.65	cps
Scandium	45-1	12869395	12478416	12711420	12686410	1.55	cps
Scandium	45-2	245744	247733	248586	247355	0.59	cps
Selenium	82-1	-37	-83	-7	-42	-91.51	cps
Selenium	77-2	3	3	7	4	43.40	cps
Selenium	78-2	10	13	23	16	44.60	cps
Silicon	28-1	7605174	7622300	7629499	7618991	0.16	cps
Silver	107-1	323	367	360	350	6.67	cps
Silver	109-1	130	203	140	158	25.21	cps
Sodium	23-2	280730	280429	282137	281098	0.32	cps
Strontium	86-1	62633	64062	63085	63260	1.16	cps
Strontium	88-1	540444	553537	545952	546644	1.20	cps
Sulfur	34-1	1131723	1139820	1110895	1127479	1.32	cps
Terbium	159-1	21497200	20776869	21005012	21093027	1.75	cps
Terbium	159-2	7242362	7141338	7293604	7225768	1.07	cps
Thallium	203-1	490	587	647	574	13.76	cps
Thallium	205-1	1277	1277	1383	1312	4.69	cps
Tin	118-1	2560	2924	2570	2685	7.71	cps
Titanium	47-1	3277	4082	3461	3607	11.70	cps
Uranium	238-1	1177	1087	1117	1127	4.07	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02LX5	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	5
Date & Time Acquired :	2025-02-06 18:40:56	DataFile Name :	119AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2237	2060	1947	2081	7.02	cps
Ytterbium	172-1	337	290	313	313	7.45	cps
Ytterbium	172-2	137	163	147	149	9.05	cps
Ytterbium	176-1	2234	2334	2160	2242	3.88	cps
Ytterbium	176-2	363	430	357	383	10.58	cps
Yttrium	89-1	30981195	30280863	30726580	30662880	1.16	cps
Yttrium	89-2	2199884	2275325	2236489	2237232	1.69	cps
Zinc	66-2	937	997	927	953	3.97	cps
Zirconium	90-1	3154	3231	3370	3252	3.38	cps
Zirconium	91-1	687	720	2818	1408	86.69	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	711930	704652	693853	703478	1.29	cps
Antimony	121-1	8544787	8604655	8597067	8582170	0.38	cps
Arsenic	75-2	1673	1593	1737	1668	4.31	cps
Barium	135-1	9176916	9173814	9149774	9166835	0.16	cps
Barium	137-1	15610290	16076222	15869198	15851903	1.47	cps
Beryllium	9-1	3171188	3293487	3229472	3231383	1.89	cps
Bismuth	209-1	12051891	11989426	11908531	11983283	0.60	cps
Bismuth	209-2	5086287	5210607	5610196	5302363	5.16	cps
Bromine	81-1	19807	22047	22638	21498	6.95	cps
Cadmium	108-1	152844	155647	154481	154324	0.91	cps
Cadmium	106-1	238862	243886	244246	242331	1.24	cps
Cadmium	111-1	2073766	2091210	2068752	2077909	0.57	cps
Calcium	43-1	3777627	3776788	3772193	3775536	0.08	cps
Calcium	44-1	60378772	60367174	60881129	60542359	0.48	cps
Carbon	12-1	10713394	11819554	12385382	11639443	7.31	cps
Carbon	12-2	81869	82597	83425	82630	0.94	cps
Chlorine	35-1	69993797	75696797	78650435	74780343	5.88	cps
Chlorine	35-2	339046	339845	341517	340136	0.37	cps
Chromium	52-2	2005385	2032396	1971772	2003184	1.52	cps
Cobalt	59-2	3946468	3954728	3856443	3919213	1.39	cps
Copper	63-2	29014180	28687833	28860755	28854256	0.57	cps
Dysprosium	156-1	3794	3957	3984	3912	2.63	cps
Dysprosium	156-2	1417	1337	1470	1408	4.77	cps
Erbium	164-1	3064	2844	3074	2994	4.34	cps
Erbium	164-2	1073	1080	1070	1075	0.47	cps
Gadolinium	160-1	3450	3624	3694	3589	3.49	cps
Gadolinium	160-2	1600	1510	1677	1596	5.23	cps
Holmium	165-1	20477652	20305507	20182528	20321896	0.73	cps
Holmium	165-2	7155329	7396236	7926721	7492762	5.27	cps
Indium	115-1	16529267	16436425	16289847	16418513	0.74	cps
Indium	115-2	1639105	1669782	1755450	1688112	3.57	cps
Iron	54-2	9700914	9730961	9592089	9674654	0.76	cps
Iron	56-2	178348917	176984131	173055157	176129402	1.56	cps
Iron	57-2	4428316	4432162	4391995	4417491	0.50	cps
Krypton	83-1	303	320	267	297	9.20	cps
Lead	206-1	31257913	31209400	31580940	31349418	0.64	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26803170	27232350	27361024	27132181	1.08	cps
Lead	208-1	122772002	124980044	126247021	124666356	1.41	cps
Lithium	6-1	9859708	9765901	9552391	9726000	1.62	cps
Magnesium	24-2	14165760	13939724	13941164	14015550	0.93	cps
Manganese	55-2	9863465	9850447	9728544	9814152	0.76	cps
Molybdenum	94-1	14353911	14729246	14465408	14516188	1.33	cps
Molybdenum	95-1	15897985	15709830	15847715	15818510	0.62	cps
Molybdenum	96-1	17808308	17968346	17910000	17895551	0.45	cps
Molybdenum	97-1	9753468	9879339	9800859	9811222	0.65	cps
Molybdenum	98-1	25235256	25933350	25568550	25579052	1.37	cps
Neodymium	150-1	6535	6428	6488	6484	0.83	cps
Neodymium	150-2	1370	1463	1443	1426	3.45	cps
Nickel	60-2	1003804	1012450	998278	1004844	0.71	cps
Phosphorus	31-2	210	190	170	190	10.53	cps
Potassium	39-2	3980808	3933893	3979627	3964776	0.67	cps
Rhodium	103-1	15465832	15534479	15259212	15419841	0.93	cps
Rhodium	103-2	6011741	6137078	6615570	6254797	5.09	cps
Scandium	45-1	12503580	12513769	12343739	12453696	0.77	cps
Scandium	45-2	240865	240071	260201	247046	4.61	cps
Selenium	82-1	127014	129942	129635	128864	1.25	cps
Selenium	77-2	2480	2314	2397	2397	3.48	cps
Selenium	78-2	8122	7612	7889	7874	3.24	cps
Silicon	28-1	31289713	31280500	31718346	31429520	0.80	cps
Silver	107-1	1843294	1880714	1908635	1877548	1.75	cps
Silver	109-1	1742551	1764428	1742658	1749879	0.72	cps
Sodium	23-2	27954680	27844790	27514195	27771222	0.83	cps
Strontium	86-1	3656004	3751582	3665936	3691174	1.42	cps
Strontium	88-1	31009335	31776831	31733576	31506581	1.37	cps
Sulfur	34-1	1784457	1779907	1771881	1778748	0.36	cps
Terbium	159-1	20810940	20633188	20661293	20701807	0.46	cps
Terbium	159-2	7022959	6977977	7630290	7210409	5.05	cps
Thallium	203-1	7565799	7541093	7585873	7564255	0.30	cps
Thallium	205-1	17833898	18046549	18135609	18005352	0.86	cps
Tin	118-1	6185457	6259693	6267112	6237421	0.72	cps
Titanium	47-1	17700	17598	16533	17277	3.74	cps
Uranium	238-1	23459649	24257549	24761122	24159440	2.72	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MS	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:44:15	DataFile Name :	120AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1661595	1650397	1643458	1651817	0.55	cps
Ytterbium	172-1	1463	1490	1460	1471	1.12	cps
Ytterbium	172-2	620	620	650	630	2.75	cps
Ytterbium	176-1	36664	37423	38025	37371	1.82	cps
Ytterbium	176-2	13534	14031	13794	13786	1.80	cps
Yttrium	89-1	30504624	30244353	29672505	30140494	1.41	cps
Yttrium	89-2	2173865	2187804	2392682	2251450	5.44	cps
Zinc	66-2	3160347	3136596	3073604	3123516	1.44	cps
Zirconium	90-1	14878016	15233619	14981724	15031120	1.22	cps
Zirconium	91-1	3398818	3417140	3323347	3379768	1.47	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	712805	707613	704288	708235	0.61	cps
Antimony	121-1	8647073	8727697	8689597	8688122	0.46	cps
Arsenic	75-2	1653	1603	1797	1685	5.96	cps
Barium	135-1	9136778	9302045	9175482	9204768	0.94	cps
Barium	137-1	15794470	16199264	15851240	15948325	1.37	cps
Beryllium	9-1	3223798	3267287	3213123	3234736	0.89	cps
Bismuth	209-1	11846516	11959230	12098583	11968110	1.06	cps
Bismuth	209-2	5170277	5176506	5262763	5203182	0.99	cps
Bromine	81-1	17061	18112	18703	17958	4.63	cps
Cadmium	108-1	157009	157232	157863	157368	0.28	cps
Cadmium	106-1	243223	245152	248116	245497	1.00	cps
Cadmium	111-1	2121497	2133304	2125644	2126815	0.28	cps
Calcium	43-1	3694068	3725120	3718582	3712590	0.44	cps
Calcium	44-1	60339111	59990477	60139931	60156506	0.29	cps
Carbon	12-1	11169025	12255775	12372621	11932474	5.56	cps
Carbon	12-2	83988	83167	84082	83746	0.60	cps
Chlorine	35-1	77683517	82529945	84326939	81513467	4.22	cps
Chlorine	35-2	353539	358753	359056	357116	0.87	cps
Chromium	52-2	2025318	2055654	2061919	2047630	0.96	cps
Cobalt	59-2	3943611	3951407	3915496	3936838	0.48	cps
Copper	63-2	29347480	28788594	29171138	29102404	0.98	cps
Dysprosium	156-1	3971	3974	3881	3942	1.34	cps
Dysprosium	156-2	1437	1297	1247	1327	7.42	cps
Erbium	164-1	3157	3174	3184	3172	0.42	cps
Erbium	164-2	1007	1113	1060	1060	5.03	cps
Gadolinium	160-1	3651	3884	3781	3772	3.10	cps
Gadolinium	160-2	1673	1610	1640	1641	1.93	cps
Holmium	165-1	20121167	20048198	20447146	20205504	1.05	cps
Holmium	165-2	7463731	7306592	7348726	7373016	1.10	cps
Indium	115-1	16271591	16329799	16665351	16422247	1.29	cps
Indium	115-2	1707836	1652570	1646849	1669085	2.02	cps
Iron	54-2	9596859	9594719	9610155	9600577	0.09	cps
Iron	56-2	175751017	175754857	174379524	175295133	0.45	cps
Iron	57-2	4412610	4332694	4374229	4373178	0.91	cps
Krypton	83-1	273	290	323	296	8.61	cps
Lead	206-1	31546452	31922815	32054659	31841308	0.83	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27097317	27716055	27701680	27505017	1.28	cps
Lead	208-1	124462775	127575061	127183447	126407095	1.34	cps
Lithium	6-1	9646449	9582993	9741999	9657147	0.83	cps
Magnesium	24-2	14003447	14306101	13804927	14038158	1.80	cps
Manganese	55-2	9883877	9931763	9851995	9889212	0.41	cps
Molybdenum	94-1	14456544	14555748	14563900	14525397	0.41	cps
Molybdenum	95-1	15915112	15737361	15725256	15792576	0.67	cps
Molybdenum	96-1	17937700	17890260	17831816	17886592	0.30	cps
Molybdenum	97-1	9584707	9688768	9781698	9685058	1.02	cps
Molybdenum	98-1	25223974	25284969	25588837	25365927	0.77	cps
Neodymium	150-1	6275	6602	6448	6442	2.54	cps
Neodymium	150-2	1733	1570	1593	1632	5.41	cps
Nickel	60-2	1016293	1008852	1011019	1012054	0.38	cps
Phosphorus	31-2	167	147	140	151	9.18	cps
Potassium	39-2	3946486	3994482	3948446	3963138	0.69	cps
Rhodium	103-1	15087524	15166981	15513641	15256049	1.49	cps
Rhodium	103-2	6221670	6165853	6132843	6173455	0.73	cps
Scandium	45-1	12405548	12226254	12420579	12350793	0.88	cps
Scandium	45-2	244197	240209	243677	242695	0.89	cps
Selenium	82-1	129403	131610	131318	130777	0.92	cps
Selenium	77-2	2244	2290	2150	2228	3.20	cps
Selenium	78-2	7972	7585	7639	7732	2.71	cps
Silicon	28-1	31010268	31612998	31390258	31337841	0.97	cps
Silver	107-1	1915913	1871560	1904819	1897430	1.22	cps
Silver	109-1	1789269	1781083	1776845	1782399	0.35	cps
Sodium	23-2	27358661	28312030	28071534	27914075	1.78	cps
Strontium	86-1	3684254	3762094	3763838	3736729	1.22	cps
Strontium	88-1	31283910	32283871	32219205	31928996	1.75	cps
Sulfur	34-1	1716693	1735754	1728266	1726904	0.56	cps
Terbium	159-1	20505009	20599824	20787876	20630903	0.70	cps
Terbium	159-2	7234624	7043161	7212453	7163413	1.46	cps
Thallium	203-1	7693141	7782134	7786864	7754046	0.68	cps
Thallium	205-1	18267175	18533363	18809608	18536715	1.46	cps
Tin	118-1	6174383	6248530	6215840	6212918	0.60	cps
Titanium	47-1	17284	21699	22913	20632	14.36	cps
Uranium	238-1	24003872	24778160	24480225	24420753	1.60	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02MSD	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:46:59	DataFile Name :	121AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1633328	1672164	1664825	1656772	1.25	cps
Ytterbium	172-1	1513	1457	1443	1471	2.53	cps
Ytterbium	172-2	653	623	693	657	5.35	cps
Ytterbium	176-1	38111	39014	38777	38634	1.21	cps
Ytterbium	176-2	13781	13597	13884	13754	1.06	cps
Yttrium	89-1	29417972	29801319	30112070	29777120	1.17	cps
Yttrium	89-2	2226967	2158101	2141181	2175416	2.09	cps
Zinc	66-2	3146290	3145686	3089939	3127305	1.03	cps
Zirconium	90-1	14922144	14975630	15025046	14974273	0.34	cps
Zirconium	91-1	3469861	3414927	3388639	3424476	1.21	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	741316	745071	743925	743437	0.26	cps
Antimony	121-1	8615779	8791368	8767378	8724842	1.09	cps
Arsenic	75-2	1593	1583	1640	1606	1.88	cps
Barium	135-1	9090670	9315401	9237168	9214413	1.24	cps
Barium	137-1	15957674	16284347	16000144	16080722	1.10	cps
Beryllium	9-1	3185658	3265187	3282046	3244297	1.59	cps
Bismuth	209-1	12367986	12068758	12013193	12149979	1.57	cps
Bismuth	209-2	5283283	5313934	5293138	5296785	0.30	cps
Bromine	81-1	16443	17558	18355	17452	5.50	cps
Cadmium	108-1	155965	158813	159531	158103	1.19	cps
Cadmium	106-1	244078	248182	248614	246958	1.01	cps
Cadmium	111-1	2131905	2145889	2115413	2131069	0.72	cps
Calcium	43-1	3676593	3792307	3787823	3752241	1.75	cps
Calcium	44-1	60214836	61541957	60393441	60716745	1.19	cps
Carbon	12-1	10955643	12061481	12474022	11830382	6.64	cps
Carbon	12-2	83512	84628	85255	84465	1.05	cps
Chlorine	35-1	78598941	84064382	85038499	82567274	4.20	cps
Chlorine	35-2	358819	362825	366756	362800	1.09	cps
Chromium	52-2	2114941	2050572	2045677	2070397	1.87	cps
Cobalt	59-2	3975640	3960079	3908410	3948043	0.89	cps
Copper	63-2	29467110	29169710	29066031	29234284	0.71	cps
Dysprosium	156-1	4094	4124	4027	4082	1.21	cps
Dysprosium	156-2	1260	1380	1317	1319	4.55	cps
Erbium	164-1	3090	3527	3037	3218	8.36	cps
Erbium	164-2	1190	1130	1250	1190	5.04	cps
Gadolinium	160-1	3824	3981	3771	3858	2.83	cps
Gadolinium	160-2	1430	1673	1623	1576	8.16	cps
Holmium	165-1	20469259	20194190	20536423	20399958	0.89	cps
Holmium	165-2	7521233	7376304	7416942	7438160	1.01	cps
Indium	115-1	16840644	16642547	16224300	16569164	1.90	cps
Indium	115-2	1683494	1684388	1668453	1678778	0.53	cps
Iron	54-2	9487035	9646604	9626589	9586743	0.91	cps
Iron	56-2	176804624	174081111	175268064	175384600	0.78	cps
Iron	57-2	4476368	4400379	4443491	4440080	0.86	cps
Krypton	83-1	283	307	293	294	3.98	cps
Lead	206-1	32301535	32695755	32677694	32558328	0.68	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27698528	28398652	28089292	28062157	1.25	cps
Lead	208-1	127252350	129734402	128115111	128367288	0.98	cps
Lithium	6-1	9809962	9726348	9631873	9722728	0.92	cps
Magnesium	24-2	14288654	14522705	14244049	14351803	1.04	cps
Manganese	55-2	9934038	9985384	10028910	9982778	0.48	cps
Molybdenum	94-1	14426312	14680104	14668959	14591792	0.98	cps
Molybdenum	95-1	15654702	16007276	15946700	15869559	1.19	cps
Molybdenum	96-1	17779473	18350138	18178883	18102831	1.62	cps
Molybdenum	97-1	9929834	9986976	9922017	9946276	0.36	cps
Molybdenum	98-1	25585110	25736195	26030416	25783907	0.88	cps
Neodymium	150-1	7129	6745	6815	6897	2.96	cps
Neodymium	150-2	1547	1580	1507	1545	2.38	cps
Nickel	60-2	1026353	1020996	1021056	1022802	0.30	cps
Phosphorus	31-2	127	157	160	148	12.42	cps
Potassium	39-2	4012782	4021225	4005808	4013271	0.19	cps
Rhodium	103-1	15711485	15510809	15215591	15479295	1.61	cps
Rhodium	103-2	6330502	6183898	6099780	6204727	1.88	cps
Scandium	45-1	12546133	12349353	12138411	12344632	1.65	cps
Scandium	45-2	247230	241576	246519	245108	1.26	cps
Selenium	82-1	128606	132408	132821	131278	1.77	cps
Selenium	77-2	2314	2414	2430	2386	2.65	cps
Selenium	78-2	7956	8049	7816	7940	1.48	cps
Silicon	28-1	35119170	35816491	36852879	35929513	2.43	cps
Silver	107-1	1899517	1911153	1937785	1916152	1.02	cps
Silver	109-1	1772597	1832758	1801267	1802207	1.67	cps
Sodium	23-2	28188105	28494315	28230423	28304281	0.59	cps
Strontium	86-1	3664507	3719329	3724162	3702666	0.89	cps
Strontium	88-1	32024481	32239013	31665158	31976217	0.91	cps
Sulfur	34-1	1712142	1731317	1710022	1717827	0.68	cps
Terbium	159-1	21175004	21118214	20357520	20883579	2.19	cps
Terbium	159-2	7111556	7049292	7156119	7105656	0.76	cps
Thallium	203-1	7861529	7971026	7967429	7933328	0.78	cps
Thallium	205-1	18715821	18926953	18875946	18839573	0.58	cps
Tin	118-1	6169999	6333734	6320300	6274678	1.45	cps
Titanium	47-1	49486	51797	40362	47215	12.81	cps
Uranium	238-1	24495213	25354332	24907648	24919064	1.72	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1211-02A	Instrumnet Name :	P8
Client Sample ID :	TAPIAL2-MW03-012825-	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:49:45	DataFile Name :	122AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1665619	1641318	1700385	1669107	1.78	cps
Ytterbium	172-1	1417	1704	1694	1605	10.14	cps
Ytterbium	172-2	733	730	633	699	8.13	cps
Ytterbium	176-1	38854	39184	38884	38974	0.47	cps
Ytterbium	176-2	14118	14278	14154	14183	0.59	cps
Yttrium	89-1	30792810	29785462	29377890	29985387	2.43	cps
Yttrium	89-2	2230846	2180474	2180979	2197433	1.32	cps
Zinc	66-2	3192464	3150878	3156863	3166735	0.71	cps
Zirconium	90-1	14948774	15154355	15281155	15128095	1.11	cps
Zirconium	91-1	3321877	3419305	3401322	3380835	1.53	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3845763	3862495	3796385	3834881	0.90	cps
Antimony	121-1	8070374	8155636	8304320	8176776	1.45	cps
Arsenic	75-2	175289	178317	180237	177948	1.40	cps
Barium	135-1	9591170	9842416	9914482	9782689	1.73	cps
Barium	137-1	16792821	16999703	16916218	16902914	0.62	cps
Beryllium	9-1	3034455	3109644	3048982	3064360	1.30	cps
Bismuth	209-1	11342832	10883827	11076048	11100902	2.08	cps
Bismuth	209-2	4860946	4541681	4610691	4671106	3.60	cps
Bromine	81-1	6251	5878	6225	6118	3.41	cps
Cadmium	108-1	156818	160904	163088	160270	1.99	cps
Cadmium	106-1	230662	233805	238514	234327	1.69	cps
Cadmium	111-1	1963559	1996119	2025183	1994954	1.55	cps
Calcium	43-1	14027736	14129160	14095468	14084121	0.37	cps
Calcium	44-1	227435997	229714763	228471157	228540639	0.50	cps
Carbon	12-1	6609949	6784223	6986239	6793470	2.77	cps
Carbon	12-2	50426	50443	50901	50590	0.53	cps
Chlorine	35-1	5127423	4812195	4548909	4829509	6.00	cps
Chlorine	35-2	16393	16129	15805	16109	1.83	cps
Chromium	52-2	2052872	2029577	2017191	2033213	0.89	cps
Cobalt	59-2	3700956	3782854	3726229	3736680	1.12	cps
Copper	63-2	27189207	27125057	27102416	27138893	0.17	cps
Dysprosium	156-1	400	457	437	431	6.67	cps
Dysprosium	156-2	133	130	103	122	13.46	cps
Erbium	164-1	403	397	427	409	3.85	cps
Erbium	164-2	170	160	170	167	3.46	cps
Gadolinium	160-1	390	377	383	383	1.74	cps
Gadolinium	160-2	157	140	110	136	17.45	cps
Holmium	165-1	20271291	19225875	19279816	19592327	3.00	cps
Holmium	165-2	7045053	6519517	7027727	6864099	4.35	cps
Indium	115-1	15875189	14950155	15084348	15303231	3.27	cps
Indium	115-2	1557725	1414405	1471200	1481110	4.87	cps
Iron	54-2	19861976	20107217	20260622	20076605	1.00	cps
Iron	56-2	362233221	364109795	365803568	364048861	0.49	cps
Iron	57-2	9151672	9264255	9159943	9191957	0.68	cps
Krypton	83-1	350	320	333	334	4.49	cps
Lead	206-1	29811493	30765306	31117292	30564697	2.21	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25904464	26306471	26335337	26182091	0.92	cps
Lead	208-1	119111466	121040730	121557423	120569873	1.07	cps
Lithium	6-1	9160208	8944903	9110054	9071722	1.24	cps
Magnesium	24-2	65665711	67050971	67239884	66652188	1.29	cps
Manganese	55-2	7938829	7988579	8146709	8024706	1.35	cps
Molybdenum	94-1	29434890	30553633	30181242	30056588	1.90	cps
Molybdenum	95-1	41625443	42834743	43086609	42515598	1.84	cps
Molybdenum	96-1	46470713	46335001	47233048	46679587	1.04	cps
Molybdenum	97-1	25870254	26410942	26672420	26317872	1.55	cps
Molybdenum	98-1	67435997	69425869	68663504	68508457	1.47	cps
Neodymium	150-1	790	797	733	773	4.50	cps
Neodymium	150-2	43	53	47	48	10.66	cps
Nickel	60-2	951214	954355	951683	952417	0.18	cps
Phosphorus	31-2	36526	37405	36967	36966	1.19	cps
Potassium	39-2	19299719	19499945	19754290	19517984	1.17	cps
Rhodium	103-1	14325696	13428607	13785434	13846579	3.26	cps
Rhodium	103-2	5653266	5182983	5399773	5412007	4.35	cps
Scandium	45-1	11808637	11432970	11433770	11558459	1.87	cps
Scandium	45-2	233037	218122	225314	225491	3.31	cps
Selenium	82-1	119742	121719	122075	121179	1.04	cps
Selenium	77-2	2174	2127	2290	2197	3.83	cps
Selenium	78-2	7485	7902	7449	7612	3.31	cps
Silicon	28-1	7445029	7432273	7430265	7435856	0.11	cps
Silver	107-1	9666025	10053664	10134307	9951332	2.52	cps
Silver	109-1	9245008	9345922	9636827	9409252	2.16	cps
Sodium	23-2	133200381	136572505	137391478	135721455	1.64	cps
Strontium	86-1	2758673	2819540	2816385	2798200	1.22	cps
Strontium	88-1	23515334	23735344	23714868	23655182	0.51	cps
Sulfur	34-1	1650004	1650883	1621417	1640768	1.02	cps
Terbium	159-1	20255307	19865042	19748831	19956393	1.33	cps
Terbium	159-2	6824926	6345208	6641035	6603723	3.66	cps
Thallium	203-1	7372236	7552879	7603523	7509546	1.62	cps
Thallium	205-1	17273860	18304818	18168505	17915728	3.13	cps
Tin	118-1	6491027	6485525	6543434	6506662	0.49	cps
Titanium	47-1	13368029	13560956	13475508	13468164	0.72	cps
Uranium	238-1	24282185	24283115	24433879	24333060	0.36	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV007	Instrumnet Name :	P8
Client Sample ID :	CCV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:52:28	DataFile Name :	123CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1612573	1635945	1602062	1616860	1.07	cps
Ytterbium	172-1	437	580	413	477	18.93	cps
Ytterbium	172-2	210	243	253	236	9.63	cps
Ytterbium	176-1	37567	38272	39195	38344	2.13	cps
Ytterbium	176-2	13841	14298	13971	14036	1.68	cps
Yttrium	89-1	29072290	28111999	28097209	28427166	1.97	cps
Yttrium	89-2	2124875	1961757	1987638	2024757	4.33	cps
Zinc	66-2	2947327	2992846	2982635	2974269	0.80	cps
Zirconium	90-1	14550203	15475511	15118671	15048128	3.10	cps
Zirconium	91-1	3328275	3392710	3393437	3371474	1.11	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	143	147	153	148	3.45	cps
Antimony	121-1	1037	1007	1107	1050	4.89	cps
Arsenic	75-2	7	7	7	7	0.00	cps
Barium	135-1	190	187	233	203	12.80	cps
Barium	137-1	323	283	330	312	8.08	cps
Beryllium	9-1	1789	1804	1741	1778	1.84	cps
Bismuth	209-1	12888537	11991596	12408072	12429401	3.61	cps
Bismuth	209-2	5347108	5673923	5667063	5562698	3.36	cps
Bromine	81-1	5948	5611	5708	5756	3.01	cps
Cadmium	108-1	7	13	27	16	65.47	cps
Cadmium	106-1	8486	7906	8659	8350	4.73	cps
Cadmium	111-1	6059	5585	6166	5937	5.21	cps
Calcium	43-1	793	780	740	771	3.60	cps
Calcium	44-1	37622	36626	37255	37168	1.36	cps
Carbon	12-1	4669530	4459030	4471560	4533373	2.60	cps
Carbon	12-2	27740	27763	28067	27856	0.66	cps
Chlorine	35-1	1597809	1550775	1456086	1534890	4.70	cps
Chlorine	35-2	5755	5471	5408	5544	3.33	cps
Chromium	52-2	1677	1690	1783	1717	3.39	cps
Cobalt	59-2	253	277	253	261	5.16	cps
Copper	63-2	4084	4167	3941	4064	2.82	cps
Dysprosium	156-1	13	17	23	18	28.64	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	113	87	90	97	15.03	cps
Erbium	164-2	53	50	37	47	18.89	cps
Gadolinium	160-1	143	103	137	128	16.78	cps
Gadolinium	160-2	20	43	33	32	36.33	cps
Holmium	165-1	20393242	19133824	20018978	19848681	3.26	cps
Holmium	165-2	7155366	7515857	7510981	7394068	2.80	cps
Indium	115-1	16995465	16345357	16940321	16760381	2.15	cps
Indium	115-2	1684566	1788950	1777622	1750379	3.27	cps
Iron	54-2	1127	1133	1340	1200	10.11	cps
Iron	56-2	17738	18616	18198	18184	2.41	cps
Iron	57-2	450	433	397	427	6.39	cps
Krypton	83-1	357	347	323	342	5.00	cps
Lead	206-1	3904	3697	3947	3850	3.47	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3544	3644	3564	3584	1.48	cps
Lead	208-1	15864	15477	15567	15636	1.29	cps
Lithium	6-1	9987623	9561051	9893784	9814153	2.28	cps
Magnesium	24-2	5818	5801	6048	5889	2.34	cps
Manganese	55-2	570	527	537	544	4.17	cps
Molybdenum	94-1	1123	1027	1070	1073	4.51	cps
Molybdenum	95-1	887	753	813	818	8.17	cps
Molybdenum	96-1	933	943	983	953	2.78	cps
Molybdenum	97-1	527	473	513	504	5.50	cps
Molybdenum	98-1	1323	1213	1253	1263	4.41	cps
Neodymium	150-1	20	10	20	17	34.64	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	1577	1760	1717	1685	5.69	cps
Phosphorus	31-2	53	83	90	76	25.85	cps
Potassium	39-2	21680	21186	20939	21268	1.77	cps
Rhodium	103-1	16584018	15302121	16100915	15995684	4.05	cps
Rhodium	103-2	6242253	6596772	6594567	6477864	3.15	cps
Scandium	45-1	12789678	11872818	12373549	12345348	3.72	cps
Scandium	45-2	236671	249246	246079	243999	2.68	cps
Selenium	82-1	-3	23	40	20	109.33	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	10	17	10	66.70	cps
Silicon	28-1	641040	649121	640781	643647	0.74	cps
Silver	107-1	640	610	637	629	2.61	cps
Silver	109-1	467	467	563	499	11.19	cps
Sodium	23-2	82381	82474	81499	82118	0.66	cps
Strontium	86-1	723	680	733	712	3.98	cps
Strontium	88-1	1083	1013	1103	1067	4.43	cps
Sulfur	34-1	850786	852434	851103	851441	0.10	cps
Terbium	159-1	21166899	20015414	20722345	20634886	2.81	cps
Terbium	159-2	6946735	7286104	7311378	7181406	2.84	cps
Thallium	203-1	1450	1307	1360	1372	5.28	cps
Thallium	205-1	3390	3247	3187	3275	3.19	cps
Tin	118-1	2040	2160	2087	2096	2.89	cps
Titanium	47-1	433	323	347	368	15.76	cps
Uranium	238-1	243	193	223	220	11.44	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB007	Instrumnet Name :	P8
Client Sample ID :	CCB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 18:58:24	DataFile Name :	124CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30	33	43	36	19.51	cps
Ytterbium	172-1	103	123	87	104	17.57	cps
Ytterbium	172-2	43	50	27	40	30.04	cps
Ytterbium	176-1	2017	1940	2030	1996	2.43	cps
Ytterbium	176-2	273	333	277	294	11.45	cps
Yttrium	89-1	31265022	29130775	30027465	30141087	3.56	cps
Yttrium	89-2	2156169	2280003	2274692	2236955	3.13	cps
Zinc	66-2	507	497	597	533	10.33	cps
Zirconium	90-1	1333	1420	1487	1413	5.44	cps
Zirconium	91-1	260	320	277	286	10.85	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1892254	1853194	1787313	1844254	2.88	cps
Antimony	121-1	18105	17959	17808	17957	0.83	cps
Arsenic	75-2	22001	22969	22174	22381	2.31	cps
Barium	135-1	978873	995852	981656	985460	0.92	cps
Barium	137-1	1763742	1818263	1740934	1774313	2.24	cps
Beryllium	9-1	7974	7991	7851	7939	0.96	cps
Bismuth	209-1	12126629	11940975	12108961	12058855	0.85	cps
Bismuth	209-2	5399777	4961415	5829899	5397030	8.05	cps
Bromine	81-1	13226	12112	11615	12318	6.70	cps
Cadmium	108-1	143	157	210	170	20.75	cps
Cadmium	106-1	8646	8816	8850	8771	1.24	cps
Cadmium	111-1	6822	6955	6998	6925	1.32	cps
Calcium	43-1	375419	378017	371744	375060	0.84	cps
Calcium	44-1	6267391	6318462	6124037	6236630	1.62	cps
Carbon	12-1	5063958	5085706	5082170	5077278	0.23	cps
Carbon	12-2	32386	31647	31427	31820	1.58	cps
Chlorine	35-1	218017010	235938296	242593710	232183005	5.47	cps
Chlorine	35-2	1031124	1035134	1035472	1033910	0.23	cps
Chromium	52-2	226614	226674	226544	226610	0.03	cps
Cobalt	59-2	235306	235245	235768	235440	0.12	cps
Copper	63-2	660187	663384	649253	657608	1.13	cps
Dysprosium	156-1	71148	72217	71996	71787	0.79	cps
Dysprosium	156-2	28657	27929	29038	28542	1.97	cps
Erbium	164-1	68334	69540	69071	68982	0.88	cps
Erbium	164-2	25100	24933	24509	24848	1.23	cps
Gadolinium	160-1	76333	75690	76565	76196	0.60	cps
Gadolinium	160-2	34050	34585	34067	34234	0.89	cps
Holmium	165-1	20171306	20083131	19841763	20032067	0.85	cps
Holmium	165-2	7400539	6836693	7942626	7393286	7.48	cps
Indium	115-1	16763666	16423181	16466461	16551103	1.12	cps
Indium	115-2	1709792	1592037	1824925	1708918	6.81	cps
Iron	54-2	10780242	10664809	10578170	10674407	0.95	cps
Iron	56-2	196890284	197396850	194887544	196391559	0.68	cps
Iron	57-2	5031092	5046010	4965387	5014163	0.86	cps
Krypton	83-1	500	473	467	480	3.67	cps
Lead	206-1	336095	338167	344643	339635	1.31	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	272841	277773	273723	274779	0.96	cps
Lead	208-1	1288810	1303811	1308090	1300237	0.78	cps
Lithium	6-1	10536485	10555516	10359388	10483796	1.03	cps
Magnesium	24-2	3260980	3267199	3124869	3217683	2.50	cps
Manganese	55-2	863738	862956	859374	862022	0.27	cps
Molybdenum	94-1	17668	17064	17348	17360	1.74	cps
Molybdenum	95-1	11348	11265	10921	11178	2.02	cps
Molybdenum	96-1	14024	14014	14454	14164	1.77	cps
Molybdenum	97-1	6775	6648	6818	6747	1.31	cps
Molybdenum	98-1	18249	18222	18062	18178	0.56	cps
Neodymium	150-1	77180	76114	77006	76766	0.75	cps
Neodymium	150-2	20269	19908	19901	20026	1.05	cps
Nickel	60-2	181056	181830	179243	180710	0.73	cps
Phosphorus	31-2	2807	2634	2564	2668	4.70	cps
Potassium	39-2	121462	120891	121600	121318	0.31	cps
Rhodium	103-1	15929331	16167841	15820660	15972611	1.11	cps
Rhodium	103-2	6458937	5898130	6741101	6366056	6.74	cps
Scandium	45-1	13203603	13004366	12984535	13064168	0.93	cps
Scandium	45-2	256884	238784	270070	255246	6.15	cps
Selenium	82-1	3090	3140	3404	3212	5.24	cps
Selenium	77-2	223	163	180	189	16.40	cps
Selenium	78-2	290	330	317	312	6.52	cps
Silicon	28-1	101934285	101193965	99945629	101024626	0.99	cps
Silver	107-1	7756	7872	7759	7796	0.85	cps
Silver	109-1	7015	7365	7295	7225	2.56	cps
Sodium	23-2	125903	129054	130164	128374	1.72	cps
Strontium	86-1	318866	319859	319915	319547	0.18	cps
Strontium	88-1	2905401	2893620	2880870	2893297	0.42	cps
Sulfur	34-1	792851	757288	737730	762623	3.66	cps
Terbium	159-1	20685736	20395725	20489361	20523607	0.72	cps
Terbium	159-2	7147816	6571764	7742883	7154154	8.19	cps
Thallium	203-1	6759	7496	8003	7419	8.43	cps
Thallium	205-1	16798	18623	19655	18359	7.88	cps
Tin	118-1	6878	7095	7245	7073	2.61	cps
Titanium	47-1	65856	65204	65237	65433	0.56	cps
Uranium	238-1	23712	23746	24868	24109	2.73	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1159-01A	Instrumnet Name :	P8
Client Sample ID :	YE8C9A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:55:15	DataFile Name :	125AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	222651	221882	219240	221258	0.81	cps
Ytterbium	172-1	19361	20279	19331	19657	2.74	cps
Ytterbium	172-2	8946	8770	8906	8874	1.04	cps
Ytterbium	176-1	13834	13260	14034	13709	2.93	cps
Ytterbium	176-2	5781	5901	5748	5810	1.39	cps
Yttrium	89-1	31247817	31211472	31161848	31207046	0.14	cps
Yttrium	89-2	2354129	2115670	2417043	2295614	6.93	cps
Zinc	66-2	93100	91332	91499	91977	1.06	cps
Zirconium	90-1	30113	29648	29471	29744	1.11	cps
Zirconium	91-1	6478	6722	6735	6645	2.18	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	620	600	523	581	8.78	cps
Antimony	121-1	433	443	430	436	1.59	cps
Arsenic	75-2	70	97	63	77	23.01	cps
Barium	135-1	65223	65631	65032	65295	0.47	cps
Barium	137-1	111585	113091	114940	113205	1.48	cps
Beryllium	9-1	599	662	664	642	5.79	cps
Bismuth	209-1	10694342	10889084	10996755	10860061	1.41	cps
Bismuth	209-2	4787088	4816182	4771969	4791746	0.47	cps
Bromine	81-1	101752	127340	142943	124012	16.77	cps
Cadmium	108-1	27	30	43	33	26.45	cps
Cadmium	106-1	7282	7996	8096	7791	5.70	cps
Cadmium	111-1	5179	5639	5713	5510	5.26	cps
Calcium	43-1	25329312	25245306	25862190	25478936	1.31	cps
Calcium	44-1	397314141	411621767	411091221	406675709	1.99	cps
Carbon	12-1	7842130	9037136	9488076	8789114	9.68	cps
Carbon	12-2	67561	68247	69487	68432	1.43	cps
Chlorine	35-1	41561986	43853666	43988924	43134859	3.16	cps
Chlorine	35-2	183501	182924	182060	182828	0.40	cps
Chromium	52-2	1917	1800	2104	1940	7.89	cps
Cobalt	59-2	537	537	557	543	2.13	cps
Copper	63-2	4811	4798	4868	4825	0.77	cps
Dysprosium	156-1	63	63	57	61	6.29	cps
Dysprosium	156-2	27	30	23	27	12.51	cps
Erbium	164-1	133	97	163	131	25.47	cps
Erbium	164-2	50	43	47	47	7.15	cps
Gadolinium	160-1	143	163	143	150	7.70	cps
Gadolinium	160-2	43	50	50	48	8.06	cps
Holmium	165-1	18744206	18889408	18839471	18824362	0.39	cps
Holmium	165-2	6918172	7006706	6963094	6962657	0.64	cps
Indium	115-1	14757475	14856706	14892118	14835433	0.47	cps
Indium	115-2	1559349	1559347	1506358	1541684	1.98	cps
Iron	54-2	217355	215956	215971	216427	0.37	cps
Iron	56-2	4032464	4041513	4053319	4042432	0.26	cps
Iron	57-2	99820	100645	99598	100021	0.55	cps
Krypton	83-1	327	277	340	314	10.62	cps
Lead	206-1	3544	3134	3014	3230	8.60	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2927	2854	2704	2828	4.03	cps
Lead	208-1	13696	12649	12209	12852	5.94	cps
Lithium	6-1	8796999	9115929	9182995	9031974	2.28	cps
Magnesium	24-2	39531196	38714454	39059852	39101834	1.05	cps
Manganese	55-2	82406	80746	80639	81264	1.22	cps
Molybdenum	94-1	4544	4667	4661	4624	1.50	cps
Molybdenum	95-1	6228	6598	6918	6582	5.25	cps
Molybdenum	96-1	6678	7072	6925	6892	2.89	cps
Molybdenum	97-1	3911	4084	4001	3998	2.17	cps
Molybdenum	98-1	9854	10277	10231	10120	2.30	cps
Neodymium	150-1	60	73	83	72	16.21	cps
Neodymium	150-2	13	17	30	20	44.10	cps
Nickel	60-2	1570	1823	1803	1732	8.13	cps
Phosphorus	31-2	127	177	107	137	26.38	cps
Potassium	39-2	762170	759560	763375	761702	0.26	cps
Rhodium	103-1	13101464	13563816	13465537	13376939	1.82	cps
Rhodium	103-2	5571090	5661562	5568465	5600372	0.95	cps
Scandium	45-1	11021823	11133652	11338025	11164500	1.44	cps
Scandium	45-2	229409	227998	225318	227575	0.91	cps
Selenium	82-1	2834	2870	2944	2883	1.94	cps
Selenium	77-2	37	57	57	50	23.09	cps
Selenium	78-2	180	213	200	198	8.48	cps
Silicon	28-1	110588908	114044522	114474198	113035876	1.88	cps
Silver	107-1	657	763	830	750	11.66	cps
Silver	109-1	447	473	507	476	6.32	cps
Sodium	23-2	100065769	100601322	99726712	100131267	0.44	cps
Strontium	86-1	76995879	76175342	78063039	77078087	1.23	cps
Strontium	88-1	665739750	664813537	677846217	669466501	1.09	cps
Sulfur	34-1	36202033	36412238	37051357	36555209	1.21	cps
Terbium	159-1	19185310	19360542	19512891	19352915	0.85	cps
Terbium	159-2	6727972	6845383	6570632	6714662	2.05	cps
Thallium	203-1	1290	1270	1407	1322	5.58	cps
Thallium	205-1	3117	2997	2954	3023	2.80	cps
Tin	118-1	8960	9193	12316	10156	18.45	cps
Titanium	47-1	2310	2240	2320	2290	1.90	cps
Uranium	238-1	11932	12563	12496	12331	2.81	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1186-09A	Instrumnet Name :	P8
Client Sample ID :	ME2959A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 19:58:30	DataFile Name :	126AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	107	70	127	101	28.42	cps
Ytterbium	172-1	123	113	107	114	7.33	cps
Ytterbium	172-2	57	30	53	47	31.14	cps
Ytterbium	176-1	1763	1783	1777	1775	0.57	cps
Ytterbium	176-2	287	360	353	333	12.17	cps
Yttrium	89-1	27204633	27835045	27723190	27587623	1.22	cps
Yttrium	89-2	2058880	2060886	2057871	2059213	0.07	cps
Zinc	66-2	860	850	933	881	5.16	cps
Zirconium	90-1	2820	2614	2520	2651	5.79	cps
Zirconium	91-1	560	550	527	546	3.14	cps

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On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	48755	47798	48243	48265	0.99	cps
Antimony	121-1	74823	74739	76721	75428	1.49	cps
Arsenic	75-2	930	950	783	888	10.25	cps
Barium	135-1	166705	169190	170198	168698	1.07	cps
Barium	137-1	291919	297069	295328	294772	0.89	cps
Beryllium	9-1	654	712	671	679	4.44	cps
Bismuth	209-1	12111736	12217610	12064634	12131327	0.65	cps
Bismuth	209-2	5339697	5318389	5293808	5317298	0.43	cps
Bromine	81-1	250639	273800	290257	271566	7.33	cps
Cadmium	108-1	227	193	217	212	8.06	cps
Cadmium	106-1	9043	9000	8486	8843	3.50	cps
Cadmium	111-1	6461	6471	6105	6346	3.29	cps
Calcium	43-1	8158629	8269608	8304445	8244227	0.92	cps
Calcium	44-1	132607435	134140455	133701298	133483062	0.59	cps
Carbon	12-1	18225983	20513686	21706421	20148697	8.78	cps
Carbon	12-2	145643	147126	148434	147068	0.95	cps
Chlorine	35-1	7538743	7466393	7258851	7421329	1.96	cps
Chlorine	35-2	28775	28341	28054	28390	1.28	cps
Chromium	52-2	2667	2780	2914	2787	4.43	cps
Cobalt	59-2	1153	1217	1287	1219	5.47	cps
Copper	63-2	11141	10834	10714	10896	2.02	cps
Dysprosium	156-1	60	103	50	71	39.87	cps
Dysprosium	156-2	17	17	37	23	49.48	cps
Erbium	164-1	117	173	137	142	20.21	cps
Erbium	164-2	43	33	30	36	19.51	cps
Gadolinium	160-1	130	173	133	146	16.57	cps
Gadolinium	160-2	17	37	57	37	54.54	cps
Holmium	165-1	20205834	20513926	19978921	20232894	1.33	cps
Holmium	165-2	7371317	7415501	7388182	7391667	0.30	cps
Indium	115-1	16439712	16488467	16406286	16444821	0.25	cps
Indium	115-2	1684084	1685495	1679329	1682970	0.19	cps
Iron	54-2	7222	7262	7122	7202	1.00	cps
Iron	56-2	132648	130521	129485	130885	1.23	cps
Iron	57-2	3624	3480	3701	3602	3.10	cps
Krypton	83-1	310	240	260	270	13.36	cps
Lead	206-1	8056	7829	8133	8006	1.97	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6578	6832	6822	6744	2.13	cps
Lead	208-1	31222	31242	31936	31466	1.29	cps
Lithium	6-1	10290078	9743188	9879250	9970839	2.86	cps
Magnesium	24-2	13696	13266	12659	13207	3.95	cps
Manganese	55-2	5621	5564	5304	5497	3.07	cps
Molybdenum	94-1	222045	220522	223467	222011	0.66	cps
Molybdenum	95-1	374828	380276	382696	379267	1.06	cps
Molybdenum	96-1	399139	407216	409661	405339	1.36	cps
Molybdenum	97-1	238409	238910	238505	238608	0.11	cps
Molybdenum	98-1	602384	613293	613143	609607	1.03	cps
Neodymium	150-1	93	67	103	88	21.59	cps
Neodymium	150-2	40	10	17	22	70.88	cps
Nickel	60-2	352338	349742	353609	351896	0.56	cps
Phosphorus	31-2	1740	1693	1547	1660	6.08	cps
Potassium	39-2	10132441	10200235	10230104	10187593	0.49	cps
Rhodium	103-1	15270700	15100229	14947797	15106242	1.07	cps
Rhodium	103-2	6099273	6152131	6131478	6127627	0.43	cps
Scandium	45-1	12223504	12101345	12079493	12134781	0.64	cps
Scandium	45-2	243853	242870	240242	242322	0.77	cps
Selenium	82-1	3190	3064	3120	3125	2.03	cps
Selenium	77-2	23	43	50	39	35.69	cps
Selenium	78-2	200	233	240	224	9.55	cps
Silicon	28-1	32956152	33204272	33261833	33140752	0.49	cps
Silver	107-1	597	573	533	568	5.64	cps
Silver	109-1	393	377	350	373	5.85	cps
Sodium	23-2	18380020	18380008	17859754	18206594	1.65	cps
Strontium	86-1	7466294	7554714	7635543	7552184	1.12	cps
Strontium	88-1	64575866	66191431	65086131	65284476	1.26	cps
Sulfur	34-1	1877975	1885690	1862947	1875538	0.62	cps
Terbium	159-1	21096382	20630413	20565227	20764007	1.40	cps
Terbium	159-2	7248421	7182653	7097742	7176272	1.05	cps
Thallium	203-1	967	987	950	968	1.90	cps
Thallium	205-1	2130	2237	2157	2175	2.55	cps
Tin	118-1	10624	10878	10591	10698	1.47	cps
Titanium	47-1	2157	2280	2334	2257	4.02	cps
Uranium	238-1	107	90	113	103	11.63	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1200-01A	Instrumnet Name :	P8
Client Sample ID :	ME2964A	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:01:47	DataFile Name :	127AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8796	9140	8736	8891	2.45	cps
Ytterbium	172-1	120	160	117	132	18.24	cps
Ytterbium	172-2	67	63	90	73	19.81	cps
Ytterbium	176-1	1974	2050	2057	2027	2.28	cps
Ytterbium	176-2	320	370	313	334	9.26	cps
Yttrium	89-1	29855660	29536735	29621802	29671399	0.56	cps
Yttrium	89-2	2169553	2166534	2191777	2175955	0.63	cps
Zinc	66-2	2610	2570	2764	2648	3.85	cps
Zirconium	90-1	1860	1827	1763	1817	2.70	cps
Zirconium	91-1	357	390	353	367	5.53	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	183	93	143	140	32.21	cps
Antimony	121-1	133	133	120	129	5.98	cps
Arsenic	75-2	3	0	3	2	86.60	cps
Barium	135-1	117	87	97	100	15.27	cps
Barium	137-1	170	127	157	151	14.69	cps
Beryllium	9-1	680	679	631	663	4.19	cps
Bismuth	209-1	13226366	12868132	13029590	13041363	1.38	cps
Bismuth	209-2	5529971	5625985	5476001	5543986	1.37	cps
Bromine	81-1	33139	28846	25410	29132	13.29	cps
Cadmium	108-1	27	30	23	27	12.51	cps
Cadmium	106-1	9177	8983	9353	9171	2.02	cps
Cadmium	111-1	6412	6297	6564	6424	2.09	cps
Calcium	43-1	1057	1077	1017	1050	2.91	cps
Calcium	44-1	44479	41202	40862	42181	4.73	cps
Carbon	12-1	5979986	5569361	5204699	5584682	6.95	cps
Carbon	12-2	30939	30659	29774	30457	2.00	cps
Chlorine	35-1	2963265	2800786	2662559	2808870	5.36	cps
Chlorine	35-2	9630	9393	9080	9368	2.95	cps
Chromium	52-2	850	857	773	827	5.60	cps
Cobalt	59-2	103	130	120	118	11.44	cps
Copper	63-2	3727	3560	3827	3705	3.64	cps
Dysprosium	156-1	7	3	20	10	88.20	cps
Dysprosium	156-2	13	13	7	11	34.61	cps
Erbium	164-1	107	100	107	104	3.69	cps
Erbium	164-2	53	33	33	40	28.87	cps
Gadolinium	160-1	107	123	137	122	12.30	cps
Gadolinium	160-2	20	13	33	22	45.83	cps
Holmium	165-1	21169503	20588914	20577490	20778636	1.63	cps
Holmium	165-2	7478656	7539409	7431627	7483230	0.72	cps
Indium	115-1	17339391	17076685	16981560	17132545	1.08	cps
Indium	115-2	1758624	1775913	1671330	1735289	3.23	cps
Iron	54-2	693	620	593	636	8.15	cps
Iron	56-2	8669	9086	9103	8953	2.74	cps
Iron	57-2	217	193	220	210	6.92	cps
Krypton	83-1	287	313	343	314	9.02	cps
Lead	206-1	2220	1984	2020	2075	6.14	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1920	1773	1743	1812	5.22	cps
Lead	208-1	8518	8104	8094	8239	2.93	cps
Lithium	6-1	10096924	9875620	9927693	9966746	1.16	cps
Magnesium	24-2	4181	4591	4557	4443	5.13	cps
Manganese	55-2	347	337	293	326	8.71	cps
Molybdenum	94-1	407	507	470	461	10.97	cps
Molybdenum	95-1	283	267	223	258	12.01	cps
Molybdenum	96-1	330	327	373	343	7.58	cps
Molybdenum	97-1	180	170	157	169	6.93	cps
Molybdenum	98-1	353	467	353	391	16.73	cps
Neodymium	150-1	10	3	20	11	75.52	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	1250	1293	1280	1275	1.74	cps
Phosphorus	31-2	53	67	83	68	22.18	cps
Potassium	39-2	24080	24391	23693	24055	1.45	cps
Rhodium	103-1	16358421	16327764	16245769	16310651	0.36	cps
Rhodium	103-2	6519830	6629310	6343857	6497665	2.22	cps
Scandium	45-1	12521292	12197146	12291108	12336515	1.35	cps
Scandium	45-2	248174	245923	238320	244139	2.11	cps
Selenium	82-1	43	0	27	23	93.68	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	3	13	9	57.30	cps
Silicon	28-1	658508	642960	635395	645621	1.83	cps
Silver	107-1	417	363	363	381	8.08	cps
Silver	109-1	173	193	187	184	5.52	cps
Sodium	23-2	72505	72954	73688	73049	0.82	cps
Strontium	86-1	1293	1020	940	1085	17.09	cps
Strontium	88-1	6478	4964	4111	5184	23.13	cps
Sulfur	34-1	1017853	1012964	1010730	1013849	0.36	cps
Terbium	159-1	21276601	20670504	21038158	20995087	1.45	cps
Terbium	159-2	7190883	7376379	7033854	7200372	2.38	cps
Thallium	203-1	767	670	697	711	7.02	cps
Thallium	205-1	1730	1690	1663	1695	1.98	cps
Tin	118-1	1810	1973	1837	1873	4.68	cps
Titanium	47-1	313	250	250	271	13.49	cps
Uranium	238-1	33	50	37	40	22.05	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:04:59	DataFile Name :	128CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	17	10	18	47.19	cps
Ytterbium	172-1	133	137	133	134	1.43	cps
Ytterbium	172-2	67	63	73	68	7.51	cps
Ytterbium	176-1	2050	1863	1927	1947	4.88	cps
Ytterbium	176-2	333	363	353	350	4.36	cps
Yttrium	89-1	30616748	30229846	29948091	30264895	1.11	cps
Yttrium	89-2	2245744	2230263	2143752	2206587	2.49	cps
Zinc	66-2	657	607	607	623	4.63	cps
Zirconium	90-1	917	1040	1143	1033	10.98	cps
Zirconium	91-1	177	177	197	183	6.30	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3557	3454	3307	3439	3.65	cps
Antimony	121-1	74217	74475	75239	74643	0.71	cps
Arsenic	75-2	700	773	930	801	14.67	cps
Barium	135-1	86366	86480	86927	86591	0.34	cps
Barium	137-1	152240	152107	151653	152000	0.20	cps
Beryllium	9-1	15228	15178	15085	15164	0.48	cps
Bismuth	209-1	12746760	12705111	12472804	12641558	1.17	cps
Bismuth	209-2	5594151	5505548	5434922	5511541	1.45	cps
Bromine	81-1	13747	12936	12509	13064	4.81	cps
Cadmium	108-1	753	743	833	777	6.35	cps
Cadmium	106-1	9987	10107	10090	10062	0.65	cps
Cadmium	111-1	15673	15688	15450	15604	0.86	cps
Calcium	43-1	65549	65903	65803	65752	0.28	cps
Calcium	44-1	1081428	1086998	1087996	1085474	0.33	cps
Carbon	12-1	4388123	4407541	4356894	4384186	0.58	cps
Carbon	12-2	27185	26751	27078	27005	0.84	cps
Chlorine	35-1	3482127	3649476	3757695	3629766	3.82	cps
Chlorine	35-2	15438	15325	15515	15426	0.62	cps
Chromium	52-2	18215	17771	17941	17976	1.25	cps
Cobalt	59-2	16827	17271	17287	17128	1.52	cps
Copper	63-2	31872	31461	32013	31782	0.90	cps
Dysprosium	156-1	20	40	7	22	75.49	cps
Dysprosium	156-2	7	7	13	9	43.25	cps
Erbium	164-1	93	117	120	110	13.21	cps
Erbium	164-2	47	33	33	38	20.39	cps
Gadolinium	160-1	90	93	147	110	28.91	cps
Gadolinium	160-2	27	50	7	28	78.06	cps
Holmium	165-1	20738157	20386979	20630771	20585302	0.87	cps
Holmium	165-2	7379629	7460997	7324270	7388299	0.93	cps
Indium	115-1	17095729	16680089	16876049	16883956	1.23	cps
Indium	115-2	1686926	1719830	1705572	1704109	0.97	cps
Iron	54-2	73186	71377	71504	72023	1.40	cps
Iron	56-2	1328347	1322947	1321858	1324384	0.26	cps
Iron	57-2	33569	33566	33078	33405	0.85	cps
Krypton	83-1	337	303	307	316	5.82	cps
Lead	206-1	29697	29006	29604	29436	1.27	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	25832	25756	25662	25750	0.33	cps
Lead	208-1	118355	118591	117706	118217	0.39	cps
Lithium	6-1	10102089	10077382	9930646	10036705	0.92	cps
Magnesium	24-2	293288	295272	291887	293483	0.58	cps
Manganese	55-2	4067	4157	3767	3997	5.11	cps
Molybdenum	94-1	77276	77240	76968	77161	0.22	cps
Molybdenum	95-1	92412	93046	91354	92271	0.93	cps
Molybdenum	96-1	103593	103169	103774	103512	0.30	cps
Molybdenum	97-1	57060	58329	56953	57447	1.33	cps
Molybdenum	98-1	148542	148185	145577	147435	1.10	cps
Neodymium	150-1	33	20	43	32	36.33	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	6021	6181	5838	6014	2.86	cps
Phosphorus	31-2	267	257	273	266	3.16	cps
Potassium	39-2	188372	186079	187647	187366	0.63	cps
Rhodium	103-1	16331657	16034266	15672556	16012826	2.06	cps
Rhodium	103-2	6319580	6392952	6430286	6380939	0.88	cps
Scandium	45-1	12115969	12226114	12050947	12131010	0.73	cps
Scandium	45-2	241371	240029	239385	240262	0.42	cps
Selenium	82-1	2967	3024	2984	2992	0.97	cps
Selenium	77-2	40	23	33	32	26.04	cps
Selenium	78-2	190	170	150	170	11.76	cps
Silicon	28-1	883262	969150	966510	939641	5.20	cps
Silver	107-1	45351	45906	46174	45810	0.92	cps
Silver	109-1	43020	43763	44150	43644	1.32	cps
Sodium	23-2	682360	672478	670124	674987	0.96	cps
Strontium	86-1	12729	12609	12662	12667	0.47	cps
Strontium	88-1	106687	105995	107641	106774	0.77	cps
Sulfur	34-1	1014752	994238	985423	998138	1.51	cps
Terbium	159-1	21116382	21262457	20646026	21008288	1.53	cps
Terbium	159-2	7233092	7144732	7043471	7140431	1.33	cps
Thallium	203-1	34777	35208	35124	35036	0.65	cps
Thallium	205-1	84319	84063	84687	84356	0.37	cps
Tin	118-1	149398	152576	149741	150571	1.16	cps
Titanium	47-1	7662	7692	7756	7703	0.62	cps
Uranium	238-1	105779	106761	106273	106271	0.46	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:08:20	DataFile Name :	129LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	35517	34916	34816	35083	1.08	cps
Ytterbium	172-1	123	117	140	127	9.49	cps
Ytterbium	172-2	47	50	47	48	4.02	cps
Ytterbium	176-1	2324	2354	2194	2290	3.71	cps
Ytterbium	176-2	320	427	383	377	14.24	cps
Yttrium	89-1	30020640	29727902	29826517	29858353	0.50	cps
Yttrium	89-2	2153006	2171568	2161497	2162024	0.43	cps
Zinc	66-2	7565	7369	7662	7532	1.99	cps
Zirconium	90-1	63922	65134	65382	64813	1.21	cps
Zirconium	91-1	14327	14758	14471	14519	1.51	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	230	247	207	228	8.82	cps
Antimony	121-1	150	150	143	148	2.60	cps
Arsenic	75-2	13	0	0	4	173.21	cps
Barium	135-1	180	183	250	204	19.31	cps
Barium	137-1	353	307	363	341	8.87	cps
Beryllium	9-1	599	647	560	602	7.28	cps
Bismuth	209-1	12876771	13154187	13035415	13022125	1.07	cps
Bismuth	209-2	5537205	5436342	5318960	5430836	2.01	cps
Bromine	81-1	9130	8643	8476	8749	3.88	cps
Cadmium	108-1	10	20	23	18	39.03	cps
Cadmium	106-1	9166	9053	9116	9112	0.62	cps
Cadmium	111-1	6423	6363	6409	6398	0.49	cps
Calcium	43-1	957	900	907	921	3.36	cps
Calcium	44-1	39217	39441	39364	39340	0.29	cps
Carbon	12-1	5150368	5638162	5942125	5576885	7.16	cps
Carbon	12-2	39777	40185	41275	40412	1.92	cps
Chlorine	35-1	1252466	1200593	1097279	1183446	6.68	cps
Chlorine	35-2	4097	3961	3904	3987	2.49	cps
Chromium	52-2	2067	1927	2017	2003	3.54	cps
Cobalt	59-2	110	103	153	122	22.21	cps
Copper	63-2	3651	3664	3324	3546	5.43	cps
Dysprosium	156-1	17	3	7	9	78.08	cps
Dysprosium	156-2	0	10	10	7	86.60	cps
Erbium	164-1	153	100	93	116	28.46	cps
Erbium	164-2	30	40	50	40	25.00	cps
Gadolinium	160-1	133	123	103	120	12.73	cps
Gadolinium	160-2	37	47	17	33	45.82	cps
Holmium	165-1	20907143	20846976	20974382	20909500	0.30	cps
Holmium	165-2	7390860	7304764	6955964	7217196	3.19	cps
Indium	115-1	17220728	17223822	16958391	17134314	0.89	cps
Indium	115-2	1678447	1655964	1646462	1660291	0.99	cps
Iron	54-2	870	870	893	878	1.54	cps
Iron	56-2	13156	12936	12973	13022	0.91	cps
Iron	57-2	290	283	327	300	7.78	cps
Krypton	83-1	283	303	300	296	3.63	cps
Lead	206-1	2967	2734	2867	2856	4.10	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2504	2504	2344	2450	3.77	cps
Lead	208-1	11642	11182	11022	11282	2.85	cps
Lithium	6-1	10209876	10162623	10103904	10158801	0.52	cps
Magnesium	24-2	4898	4714	4961	4858	2.64	cps
Manganese	55-2	833	757	917	836	9.58	cps
Molybdenum	94-1	453	560	540	518	10.95	cps
Molybdenum	95-1	210	203	163	192	13.13	cps
Molybdenum	96-1	243	230	240	238	2.92	cps
Molybdenum	97-1	150	110	127	129	15.59	cps
Molybdenum	98-1	247	247	243	246	0.78	cps
Neodymium	150-1	23	13	20	19	26.96	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1127	1270	1163	1187	6.28	cps
Phosphorus	31-2	50	100	53	68	41.25	cps
Potassium	39-2	18742	18465	18936	18714	1.26	cps
Rhodium	103-1	16530386	15989324	16163671	16227793	1.70	cps
Rhodium	103-2	6346675	6195258	6079844	6207259	2.16	cps
Scandium	45-1	12457686	12258001	12091689	12269126	1.49	cps
Scandium	45-2	239034	233983	229068	234028	2.13	cps
Selenium	82-1	7	-63	-93	-50	-102.64	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	0	3	3	100.05	cps
Silicon	28-1	813572	819373	824874	819273	0.69	cps
Silver	107-1	527	510	490	509	3.61	cps
Silver	109-1	320	303	283	302	6.07	cps
Sodium	23-2	80480	80178	80088	80249	0.26	cps
Strontium	86-1	827	920	800	849	7.42	cps
Strontium	88-1	4221	4464	4107	4264	4.28	cps
Sulfur	34-1	997305	956437	975392	976378	2.09	cps
Terbium	159-1	21250961	21269801	20960823	21160528	0.82	cps
Terbium	159-2	7047595	7022613	6718135	6929448	2.65	cps
Thallium	203-1	643	540	580	588	8.86	cps
Thallium	205-1	1483	1480	1290	1418	7.81	cps
Tin	118-1	3370	3010	3250	3210	5.71	cps
Titanium	47-1	373	343	243	320	21.27	cps
Uranium	238-1	40	50	67	52	25.80	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:11:38	DataFile Name :	130AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	13	20	12	68.66	cps
Ytterbium	172-1	117	150	133	133	12.50	cps
Ytterbium	172-2	27	60	47	44	37.74	cps
Ytterbium	176-1	2237	1934	2014	2061	7.63	cps
Ytterbium	176-2	327	320	323	323	1.03	cps
Yttrium	89-1	30595300	29865875	29909489	30123555	1.36	cps
Yttrium	89-2	2184752	2119178	2091416	2131782	2.25	cps
Zinc	66-2	283	263	273	273	3.66	cps
Zirconium	90-1	1030	1093	1070	1064	3.01	cps
Zirconium	91-1	233	197	230	220	9.22	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	123	193	157	158	22.19	cps
Antimony	121-1	140	80	120	113	26.96	cps
Arsenic	75-2	7	3	7	6	34.70	cps
Barium	135-1	167	177	190	178	6.58	cps
Barium	137-1	210	263	273	249	13.68	cps
Beryllium	9-1	610	621	587	606	2.83	cps
Bismuth	209-1	13560246	13090179	13073526	13241317	2.09	cps
Bismuth	209-2	5616740	5649540	5572291	5612857	0.69	cps
Bromine	81-1	7045	6628	6775	6816	3.10	cps
Cadmium	108-1	13	30	40	28	48.51	cps
Cadmium	106-1	9390	9183	9173	9249	1.32	cps
Cadmium	111-1	6584	6434	6423	6480	1.38	cps
Calcium	43-1	1020	833	910	921	10.19	cps
Calcium	44-1	39344	39547	38478	39123	1.45	cps
Carbon	12-1	5604158	5998760	6292415	5965111	5.79	cps
Carbon	12-2	41124	41739	43193	42019	2.53	cps
Chlorine	35-1	824286	806053	785596	805312	2.40	cps
Chlorine	35-2	2954	3127	3040	3040	2.85	cps
Chromium	52-2	1593	1790	1670	1685	5.89	cps
Cobalt	59-2	113	77	93	94	19.44	cps
Copper	63-2	3447	3677	3290	3472	5.60	cps
Dysprosium	156-1	17	20	13	17	20.01	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	117	90	123	110	16.04	cps
Erbium	164-2	20	27	67	38	66.81	cps
Gadolinium	160-1	150	100	123	124	20.10	cps
Gadolinium	160-2	47	23	27	32	39.17	cps
Holmium	165-1	21347342	20988046	20416420	20917269	2.24	cps
Holmium	165-2	7377339	7545911	7342003	7421751	1.47	cps
Indium	115-1	17938056	17194233	17073670	17401986	2.69	cps
Indium	115-2	1704371	1734503	1706925	1715267	0.97	cps
Iron	54-2	1230	1257	1087	1191	7.68	cps
Iron	56-2	18976	19500	20221	19566	3.19	cps
Iron	57-2	570	483	493	516	9.20	cps
Krypton	83-1	273	213	273	253	13.67	cps
Lead	206-1	2040	2050	1987	2026	1.68	cps

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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1863	1593	1687	1715	8.00	cps
Lead	208-1	8561	7948	7744	8084	5.26	cps
Lithium	6-1	10340232	10018861	10004243	10121112	1.88	cps
Magnesium	24-2	5191	5054	5258	5168	2.01	cps
Manganese	55-2	3084	3167	3190	3147	1.78	cps
Molybdenum	94-1	533	507	527	522	2.66	cps
Molybdenum	95-1	203	187	177	189	7.13	cps
Molybdenum	96-1	253	247	243	248	2.06	cps
Molybdenum	97-1	120	87	83	97	20.98	cps
Molybdenum	98-1	233	213	280	242	14.12	cps
Neodymium	150-1	17	27	13	19	36.75	cps
Neodymium	150-2	10	0	0	3	173.21	cps
Nickel	60-2	1307	1293	1453	1351	6.57	cps
Phosphorus	31-2	63	70	67	67	5.00	cps
Potassium	39-2	19166	19220	19477	19287	0.86	cps
Rhodium	103-1	16771138	16153869	16174289	16366432	2.14	cps
Rhodium	103-2	6548027	6463506	6350753	6454095	1.53	cps
Scandium	45-1	12761454	12360805	12346363	12489541	1.89	cps
Scandium	45-2	238698	239559	239867	239374	0.25	cps
Selenium	82-1	-7	20	-57	-14	-269.42	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	20	13	43.30	cps
Silicon	28-1	608358	617019	627637	617671	1.56	cps
Silver	107-1	313	287	333	311	7.53	cps
Silver	109-1	157	190	140	162	15.69	cps
Sodium	23-2	129552	128214	128361	128709	0.57	cps
Strontium	86-1	467	560	583	537	11.50	cps
Strontium	88-1	1690	1703	1663	1686	1.21	cps
Sulfur	34-1	988681	994179	986708	989856	0.39	cps
Terbium	159-1	22302898	21355260	21198957	21619038	2.76	cps
Terbium	159-2	7181101	7212307	7215317	7202908	0.26	cps
Thallium	203-1	677	553	450	560	20.26	cps
Thallium	205-1	1337	1283	1140	1253	8.12	cps
Tin	118-1	2587	2467	2660	2571	3.80	cps
Titanium	47-1	347	403	247	332	23.88	cps
Uranium	238-1	37	23	23	28	27.73	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	Q1223-17	Instrumnet Name :	P8
Client Sample ID :	A6310	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:14:59	DataFile Name :	131AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	43	13	24	67.26	cps
Ytterbium	172-1	93	100	130	108	18.12	cps
Ytterbium	172-2	43	43	43	43	0.00	cps
Ytterbium	176-1	2174	2000	2170	2115	4.69	cps
Ytterbium	176-2	327	310	343	327	5.10	cps
Yttrium	89-1	31703748	30483279	30095424	30760817	2.73	cps
Yttrium	89-2	2192880	2230967	2217447	2213765	0.87	cps
Zinc	66-2	270	293	277	280	4.29	cps
Zirconium	90-1	1153	983	1050	1062	8.06	cps
Zirconium	91-1	190	207	163	187	11.71	cps

Reviewed By:JANVI
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Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3817099	3713247	3714835	3748394	1.59	cps
Antimony	121-1	8134081	8149523	8090330	8124644	0.38	cps
Arsenic	75-2	173454	174313	174684	174151	0.36	cps
Barium	135-1	9686434	9859643	9741236	9762438	0.91	cps
Barium	137-1	16711770	17022066	16993717	16909184	1.01	cps
Beryllium	9-1	3050084	3023258	3076331	3049891	0.87	cps
Bismuth	209-1	11145529	10925203	11002541	11024424	1.01	cps
Bismuth	209-2	4876597	4873621	4802522	4850913	0.86	cps
Bromine	81-1	5905	5855	6088	5949	2.07	cps
Cadmium	108-1	159506	159100	158186	158931	0.43	cps
Cadmium	106-1	234035	233138	232795	233323	0.27	cps
Cadmium	111-1	1971705	2000982	1976026	1982904	0.80	cps
Calcium	43-1	14137429	14149540	14361845	14216271	0.89	cps
Calcium	44-1	227965877	232184457	229220037	229790123	0.94	cps
Carbon	12-1	5790350	5891776	6091438	5924521	2.59	cps
Carbon	12-2	45500	46135	45671	45769	0.72	cps
Chlorine	35-1	519554	514665	512425	515548	0.71	cps
Chlorine	35-2	1933	2004	2084	2007	3.74	cps
Chromium	52-2	1968952	1948750	1942404	1953369	0.71	cps
Cobalt	59-2	3680225	3642349	3697421	3673332	0.77	cps
Copper	63-2	26807432	26661860	26691086	26720126	0.29	cps
Dysprosium	156-1	490	427	510	476	9.15	cps
Dysprosium	156-2	133	73	117	108	28.74	cps
Erbium	164-1	413	477	357	416	14.45	cps
Erbium	164-2	140	177	153	157	11.85	cps
Gadolinium	160-1	443	460	430	444	3.38	cps
Gadolinium	160-2	170	100	183	151	29.62	cps
Holmium	165-1	19573912	18892531	19067247	19177897	1.85	cps
Holmium	165-2	7108152	7044166	7060311	7070876	0.47	cps
Indium	115-1	14932032	14855530	14950625	14912729	0.34	cps
Indium	115-2	1543125	1484039	1520091	1515752	1.96	cps
Iron	54-2	19713612	19542981	19283018	19513204	1.11	cps
Iron	56-2	355173168	358402248	352598981	355391466	0.82	cps
Iron	57-2	9060862	8999774	9055954	9038863	0.38	cps
Krypton	83-1	323	307	287	306	6.01	cps
Lead	206-1	30506098	30585222	30315508	30468943	0.46	cps

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	26117323	26331855	25854298	26101159	0.92	cps
Lead	208-1	121084767	121125130	119938365	120716087	0.56	cps
Lithium	6-1	9082385	8919122	8773148	8924885	1.73	cps
Magnesium	24-2	66068654	66332417	64840206	65747092	1.21	cps
Manganese	55-2	7764332	7895635	7744172	7801380	1.05	cps
Molybdenum	94-1	29281030	30117688	29261425	29553381	1.65	cps
Molybdenum	95-1	42382280	42102794	41398075	41961050	1.21	cps
Molybdenum	96-1	46340876	46731189	46649891	46573985	0.44	cps
Molybdenum	97-1	25921270	25913224	26484596	26106363	1.25	cps
Molybdenum	98-1	67690796	68370292	68578691	68213260	0.68	cps
Neodymium	150-1	663	737	700	700	5.24	cps
Neodymium	150-2	60	53	47	53	12.50	cps
Nickel	60-2	1067516	1061134	1068222	1065624	0.37	cps
Phosphorus	31-2	36379	36011	36332	36241	0.55	cps
Potassium	39-2	19343522	19117490	18966298	19142437	0.99	cps
Rhodium	103-1	13784182	13266755	13773599	13608179	2.17	cps
Rhodium	103-2	5537415	5542928	5493798	5524714	0.49	cps
Scandium	45-1	11358769	11226323	11366600	11317231	0.70	cps
Scandium	45-2	231236	228763	230577	230192	0.56	cps
Selenium	82-1	122583	122963	121191	122246	0.76	cps
Selenium	77-2	2220	2284	2084	2196	4.66	cps
Selenium	78-2	7319	7605	7545	7490	2.02	cps
Silicon	28-1	7478043	7340813	7316448	7378435	1.18	cps
Silver	107-1	9886458	9942735	9686405	9838533	1.37	cps
Silver	109-1	9324890	9258465	9084443	9222599	1.35	cps
Sodium	23-2	135147358	133116521	132889331	133717737	0.93	cps
Strontium	86-1	2720542	2774434	2785511	2760162	1.26	cps
Strontium	88-1	23375475	23859483	24083481	23772813	1.52	cps
Sulfur	34-1	1629236	1603090	1599335	1610554	1.01	cps
Terbium	159-1	19844679	19455556	19292836	19531024	1.45	cps
Terbium	159-2	6825766	6852299	6779706	6819257	0.54	cps
Thallium	203-1	7573716	7518244	7376341	7489433	1.36	cps
Thallium	205-1	18057735	18142651	18084056	18094814	0.24	cps
Tin	118-1	6464690	6451611	6452107	6456136	0.11	cps
Titanium	47-1	13496406	13390980	13667136	13518174	1.03	cps
Uranium	238-1	24885900	24664076	24403866	24651281	0.98	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCV008	Instrumnet Name :	P8
Client Sample ID :	CCV008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:22:56	DataFile Name :	133CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1563366	1576872	1568775	1569671	0.43	cps
Ytterbium	172-1	503	413	493	470	10.50	cps
Ytterbium	172-2	173	237	173	194	18.80	cps
Ytterbium	176-1	37894	38834	38733	38487	1.34	cps
Ytterbium	176-2	13811	13247	14191	13750	3.46	cps
Yttrium	89-1	27638800	27548702	27510380	27565960	0.24	cps
Yttrium	89-2	2083211	2055876	2036625	2058570	1.14	cps
Zinc	66-2	2914623	2913864	2920902	2916463	0.13	cps
Zirconium	90-1	14717945	15128159	14548981	14798362	2.01	cps
Zirconium	91-1	3291743	3380108	3273550	3315134	1.72	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	163	157	180	167	7.21	cps
Antimony	121-1	3060	2717	2270	2683	14.77	cps
Arsenic	75-2	7	7	20	11	69.25	cps
Barium	135-1	657	473	403	511	25.60	cps
Barium	137-1	1073	870	677	873	22.71	cps
Beryllium	9-1	1951	1841	1662	1818	8.02	cps
Bismuth	209-1	12847865	12857383	12914101	12873116	0.28	cps
Bismuth	209-2	5426447	5395756	5546765	5456322	1.46	cps
Bromine	81-1	5625	5655	5598	5626	0.50	cps
Cadmium	108-1	53	50	23	42	38.95	cps
Cadmium	106-1	8716	8429	8399	8515	2.05	cps
Cadmium	111-1	6227	6012	5993	6078	2.14	cps
Calcium	43-1	1373	1157	1083	1205	12.52	cps
Calcium	44-1	45532	42479	39995	42669	6.50	cps
Carbon	12-1	4162319	4038204	3967446	4055990	2.43	cps
Carbon	12-2	24604	24768	25379	24917	1.64	cps
Chlorine	35-1	444557	435469	431245	437090	1.56	cps
Chlorine	35-2	1640	1637	1740	1672	3.51	cps
Chromium	52-2	830	863	893	862	3.67	cps
Cobalt	59-2	190	223	170	194	13.86	cps
Copper	63-2	3791	3921	3841	3851	1.70	cps
Dysprosium	156-1	17	23	17	19	20.36	cps
Dysprosium	156-2	3	7	7	6	34.70	cps
Erbium	164-1	113	100	133	116	14.52	cps
Erbium	164-2	23	40	43	36	30.14	cps
Gadolinium	160-1	113	123	103	113	8.82	cps
Gadolinium	160-2	13	27	17	19	36.75	cps
Holmium	165-1	20976475	20640560	20079916	20565650	2.20	cps
Holmium	165-2	7305318	7158543	7457284	7307048	2.04	cps
Indium	115-1	17348882	16922505	16938079	17069822	1.42	cps
Indium	115-2	1698996	1661037	1730608	1696880	2.05	cps
Iron	54-2	1000	1073	1193	1089	8.96	cps
Iron	56-2	16066	16807	17541	16804	4.39	cps
Iron	57-2	453	377	397	409	9.72	cps
Krypton	83-1	323	197	300	273	24.66	cps
Lead	206-1	6071	5545	4834	5483	11.32	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5274	4804	4141	4740	12.02	cps
Lead	208-1	24039	22058	19226	21774	11.11	cps
Lithium	6-1	10017723	10075243	9875734	9989567	1.03	cps
Magnesium	24-2	4644	4761	4818	4741	1.86	cps
Manganese	55-2	557	463	633	551	15.45	cps
Molybdenum	94-1	2644	2264	1847	2251	17.70	cps
Molybdenum	95-1	3117	2374	1957	2482	23.67	cps
Molybdenum	96-1	3427	2757	2087	2757	24.31	cps
Molybdenum	97-1	1970	1503	1287	1587	22.01	cps
Molybdenum	98-1	4708	4177	3064	3983	21.06	cps
Neodymium	150-1	13	23	10	16	44.60	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1233	1357	1340	1310	5.11	cps
Phosphorus	31-2	47	53	83	61	31.96	cps
Potassium	39-2	21059	20374	20168	20534	2.27	cps
Rhodium	103-1	16615074	16346585	16220987	16394215	1.23	cps
Rhodium	103-2	6299189	6330799	6446091	6358693	1.22	cps
Scandium	45-1	12531748	12355514	12299711	12395658	0.98	cps
Scandium	45-2	237116	232629	244312	238019	2.48	cps
Selenium	82-1	-27	150	33	52	172.04	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	10	3	10	8	49.52	cps
Silicon	28-1	624324	621856	621406	622529	0.25	cps
Silver	107-1	2054	1800	1433	1762	17.69	cps
Silver	109-1	1687	1383	1187	1419	17.75	cps
Sodium	23-2	84502	82511	81412	82808	1.89	cps
Strontium	86-1	690	657	553	633	11.25	cps
Strontium	88-1	2247	2060	1680	1996	14.47	cps
Sulfur	34-1	822370	826507	825206	824694	0.26	cps
Terbium	159-1	21700810	20895637	20531356	21042601	2.84	cps
Terbium	159-2	6944837	6903340	7230227	7026135	2.53	cps
Thallium	203-1	1460	1203	1063	1242	16.20	cps
Thallium	205-1	3330	2917	2480	2909	14.61	cps
Tin	118-1	2534	2427	2300	2420	4.83	cps
Titanium	47-1	950	907	613	823	22.24	cps
Uranium	238-1	1257	1017	690	988	28.80	cps

Reviewed By:JANVI
On:2/17/2025 12:45:24 PM
Inst Id :P8

LB Number :	LB134612	Operator :	Jaswal
Lab Sample ID :	CCB008	Instrumnet Name :	P8
Client Sample ID :	CCB008	Dilution Factor :	1
Date & Time Acquired :	2025-02-06 20:25:40	DataFile Name :	134CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43	33	53	43	23.08	cps
Ytterbium	172-1	107	120	107	111	6.93	cps
Ytterbium	172-2	53	57	80	63	22.94	cps
Ytterbium	176-1	1970	1803	1937	1903	4.63	cps
Ytterbium	176-2	337	277	313	309	9.79	cps
Yttrium	89-1	30796411	30220110	29995989	30337503	1.36	cps
Yttrium	89-2	2148080	2147751	2264305	2186712	3.07	cps
Zinc	66-2	683	690	713	696	2.26	cps
Zirconium	90-1	2384	2224	1737	2115	15.93	cps
Zirconium	91-1	460	507	373	447	15.15	cps

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Prep Standard - Chemical Standard Summary

Order ID : Q1223

Test : Metals CLP MS,Metals CLP MS FULL

Prepbatch ID : PB166384,PB166570,

Sequence ID/Qc Batch ID: LB134522,LB134612,

Standard ID :
MP82128,MP84041,MP84042,MP84043,MP84044,MP84045,MP84046,MP84047,MP84048,MP84049,MP84050,MP840
51,MP84052,MP84053,MP84054,MP84055,MP84056,MP84057,MP84073,MP84074,MP84099,MP 84118,MP84119,MP
84297,MP84317,MP84318,

Chemical ID :
M5288,M5289,M5295,M5298,M5304,M5472,M5476,M5496,M5497,M5498,M5513,M5516,M5519,M5658,M5697,M5739
,M5751,M5768,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5819,M5820,M5873,M5874,M596
1,M5962,M5976,M5977,M5978,M5981,M5983,M5993,M5994,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M60
40,M6055,M6121,M6126,M6127,M6128,M6146,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
169	1:1HNO3	MP84041	01/14/2025	07/14/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/16/2025

FROM 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84042	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84043	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M5496 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6126 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5298 + 4.90000ml of M5519 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M5819 + 9.00000ml of M6128 + 9.90000ml of M5497 + 9.90000ml of M5806 + 9.90000ml of M6127 = 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)	MP84044	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84043 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP84045	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84043 = 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
3954	S4(SFAM,6020,200.8)	MP84046	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84043 = 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)	MP84047	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84044 = 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)	MP84048	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5298 + 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 M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5806 + 2.50000ml of M6121 + 2.50000ml of M6127 + 225.25000ml of W3112 + 5.00000ml of M6126 = 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)	MP84049	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84048 = 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)	MP84050	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84049 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3958	ICV(SFAM)	MP84051	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M5295 + 98.00000ml of MP84042 = 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	MP84052	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5298 + 12.45000ml of M5519 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M5806 + 24.95000ml of M6127 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.50000ml of M6128 + 4.95000ml of M5496 + 5.00000ml of M5976 + 5.00000ml of M6121 + 830.60000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84053	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84042 = 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	MP84054	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84055	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84042 = 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	MP84056	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84055 + 96.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84057	01/14/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/16/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84042 = 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
2902	S8 ICPMS	MP84073	01/14/2025	02/07/2025	Janvi Patel	None	None	Mohan Bera 01/16/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5298 + 5.00000ml of M5497 + 5.00000ml of M5806 + 5.00000ml of M6127 + 79.00000ml of MP84042 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP84074	01/16/2025	02/07/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP84042 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3963	CONC.LCSW SPIKE	MP84099	01/16/2025	02/07/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 01/17/2025

FROM 0.05000ml of M5472 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5289 + 0.10000ml of M5658 + 0.10000ml of M5697 + 0.10000ml of M5802 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.25000ml of M6128 + 0.50000ml of M6032 + 1.00000ml of M5298 + 1.25000ml of M5816 + 1.25000ml of M5820 + 1.25000ml of M6121 + 2.50000ml of M5497 + 2.50000ml of M5516 + 2.50000ml of M5519 + 2.50000ml of M5768 + 2.50000ml of M6126 + 226.35000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3964	CONC.LCSS SPIKE	MP84118	01/21/2025	02/04/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/22/2025

FROM 0.25000ml of M5798 + 0.25000ml of M5800 + 0.25000ml of M5801 + 0.25000ml of M5961 + 0.25000ml of M5981 + 0.25000ml of M5983 + 0.25000ml of M6023 + 0.25000ml of M6025 + 0.25000ml of M6028 + 0.25000ml of M6030 + 0.25000ml of M6128 + 0.50000ml of M5289 + 0.50000ml of M5658 + 0.50000ml of M5751 + 0.50000ml of M5802 + 1.00000ml of M5977 + 1.25000ml of M5799 + 1.25000ml of M5819 + 1.25000ml of M5962 + 1.25000ml of M5978 + 1.25000ml of M6021 + 12.50000ml of M5498 + 12.50000ml of M5519 + 12.50000ml of M5806 + 12.50000ml of M6127 + 155.70000ml of W3112 + 2.50000ml of M6032 + 2.50000ml of M6121 + 4.80000ml of M5476 + 5.00000ml of M5298 + 5.00000ml of M6126 + 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	MP84119	01/21/2025	01/31/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 01/22/2025

FROM 0.02500ml of M5977 + 0.05000ml of M5476 + 5.00000ml of M5994 + 5.00000ml of M5999 + 39.92500ml of MP84042 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP84297	01/31/2025	02/28/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/31/2025

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1883	SE 10PPM	MP84317	02/02/2025	02/07/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Eman Mughal 02/05/2025

FROM 0.10000ml of M5962 + 9.90000ml of MP84042 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1027	SB 1PPM	MP84318	02/02/2025	02/07/2025	Sarabjit Jaswal	None	None	Eman Mughal 02/05/2025

FROM 0.01000ml of M6146 + 9.99000ml of MP84042 = Final Quantity: 10.000 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.	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	02/05/2025	08/07/2024 / jaswal	04/20/2021 / bin	M5295

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	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

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.	57038 / Sr, 1000 PPM, 125 ml	082922	08/29/2025	01/14/2025 / Jaswal	03/16/2023 / jaswal	M5472

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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	08/29/2025	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.	58113 / Al, 10000 PPM, 500 ml	011623	01/16/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5496

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	03/18/2023 / bin	03/17/2023 / bin	M5497

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.	58111 / Na, 10000 PPM, 500 ml	022123	11/06/2025	11/06/2024 / kareem	03/17/2023 / bin	M5516

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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.	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

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	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

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	01/08/2024 / bin	01/03/2024 / bin	M5768

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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.	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

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

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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.	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

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.	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

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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

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	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	01/16/2025 / JANVI	02/22/2024 / Jaswal	M5977

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

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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.	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-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5994

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

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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.	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	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

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	08/05/2024 / 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.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

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 /janvi	08/01/2024 / Janvi	M6040

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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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

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)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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	101124	10/11/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6128

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	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

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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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inorganicventures.com

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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-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:

1637

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

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F: 540-585-3012
info@inorganicventures.com

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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

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M6032

R: 8/5/24

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1645

CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
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		

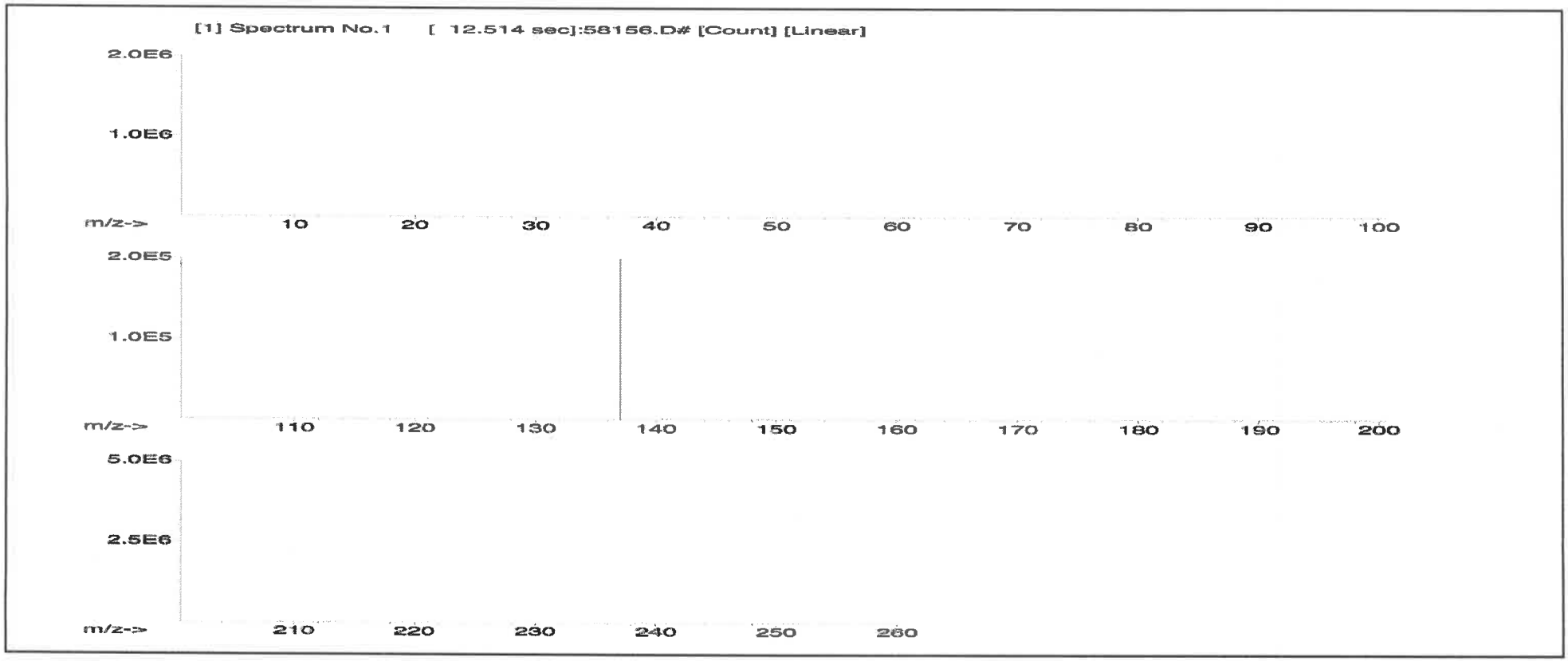
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

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	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



1646

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:

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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R 8/15/24

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1647

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		

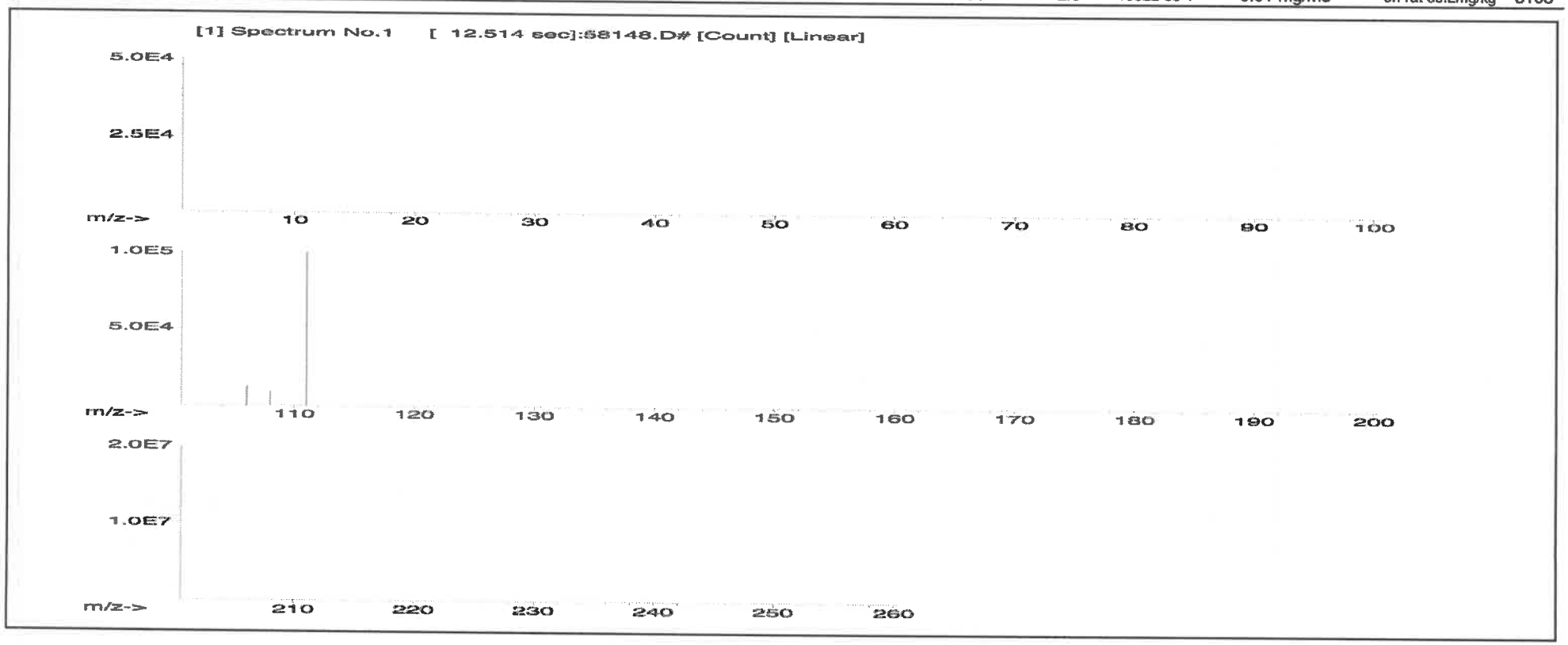
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

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



1648

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.

* 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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R: 8/5/24 M6025

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1649

CERTIFIED WEIGHT REPORT:

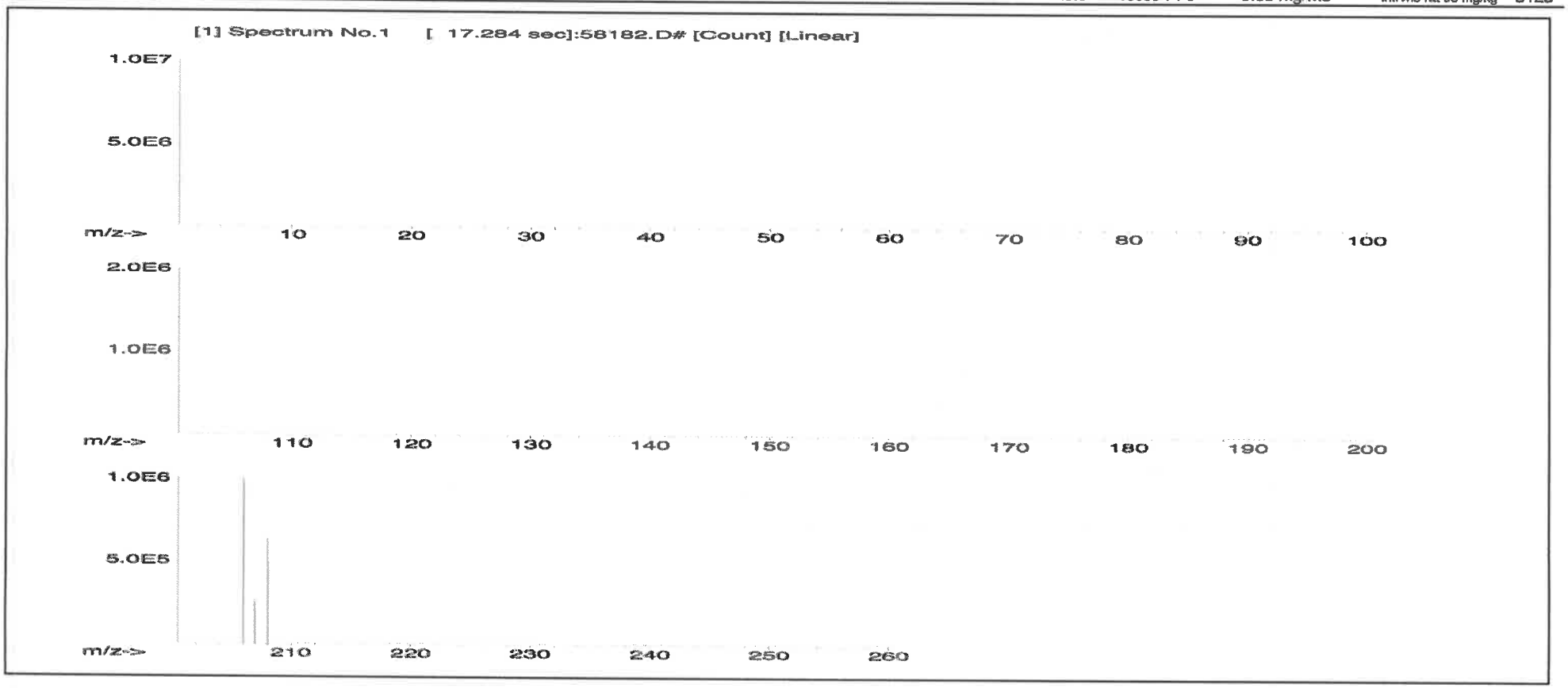
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask 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



1650

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.
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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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M5288 R: 07/21/2022

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CERTIFIED WEIGHT REPORT:

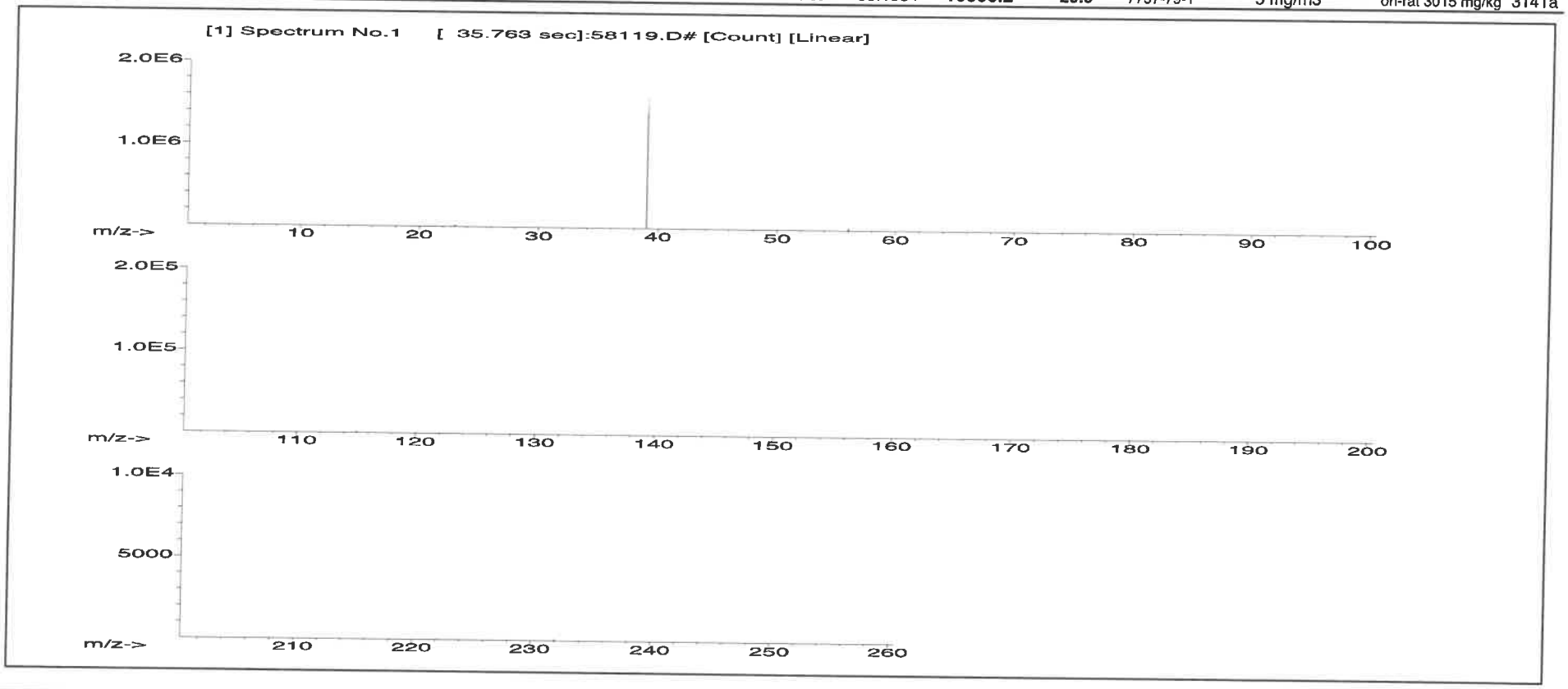
Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

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



1651

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.
* All standard containers are meticulously cleaned prior to use.
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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).

1652

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M5289 R: 07/12/22 BH

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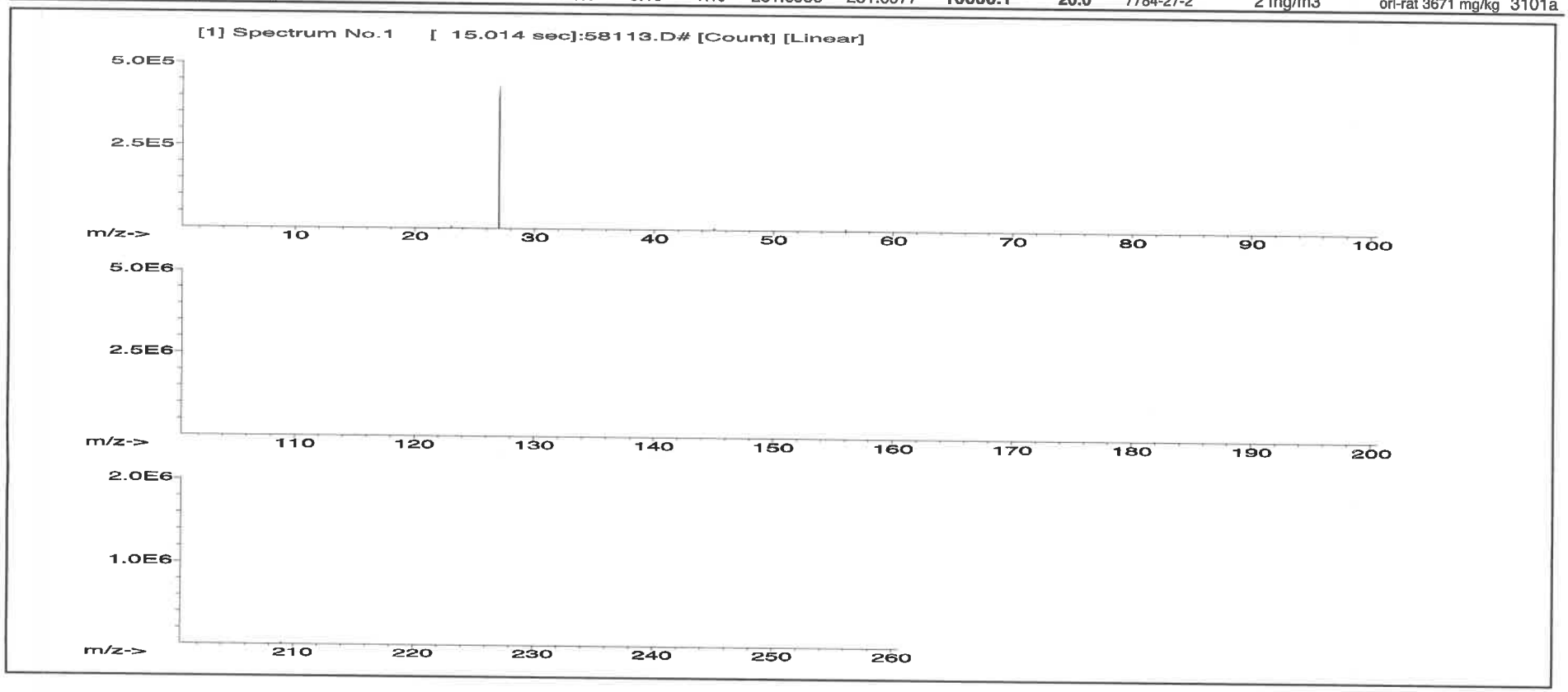
1653

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**		**Lot #**		
Lot Number:	**070622**	**Solvent:**	20370011	Nitric Acid	
Description:	**Aluminum (Al)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070625				
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	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



1654

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.

* 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).

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

SJ 6/15/22

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AR-1539 Certificate Number
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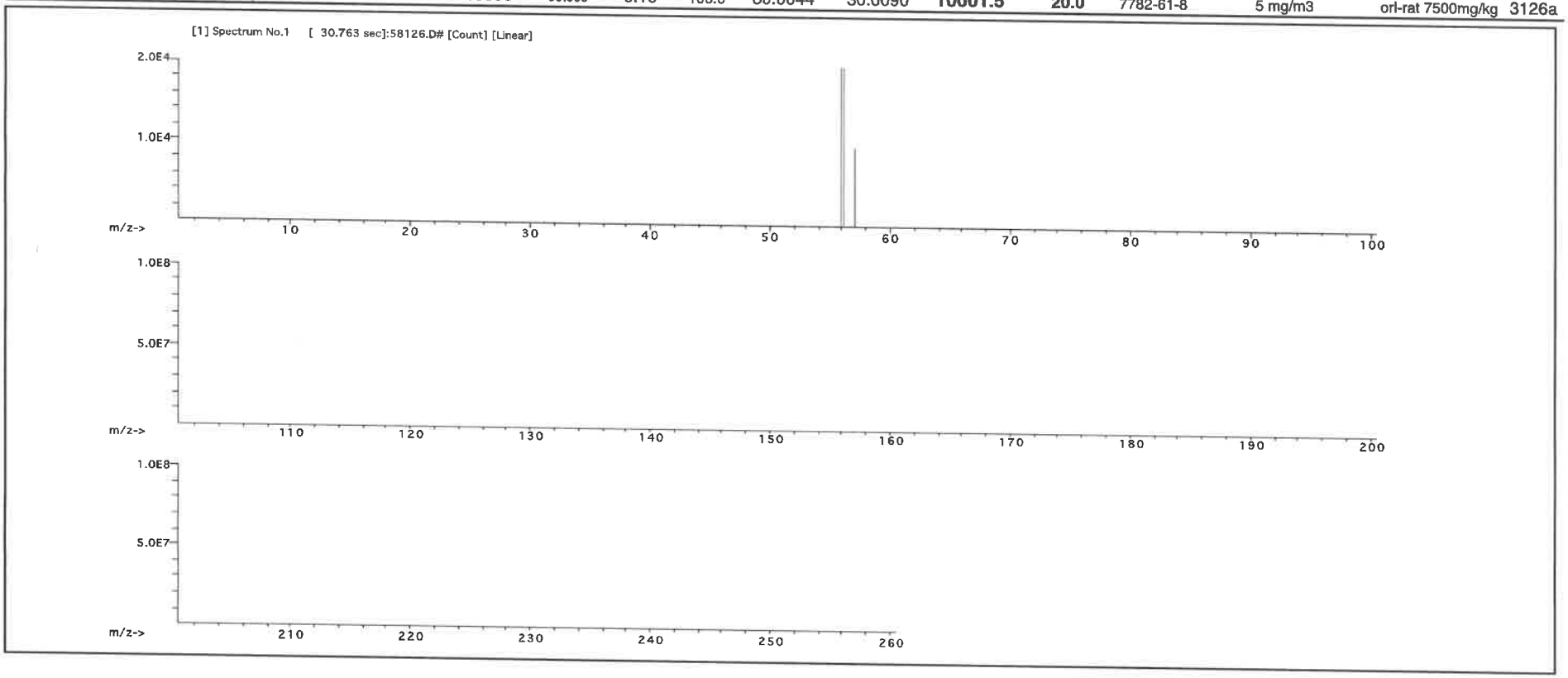
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**	M15298		**Lot #**	
Lot Number:	**020422**		**Solvent:**	20370011	Nitric Acid
Description:	**Iron (Fe)**				
			5.0%	150.0 (mL)	Nitric Acid
Expiration Date:	020425				
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):	3000.41	0.058 Flask Uncertainty			

Giovanni Esposito
Formulated By: Giovanni Esposito 020422

Pedro Rentas
Reviewed By: Pedro L. Rentas 020422

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(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



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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	<0.10	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	<0.5	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	<0.02
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).

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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

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**

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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

Absolute Standards, Inc.
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Certified Reference Material CRM

M5496 R 7/20/23

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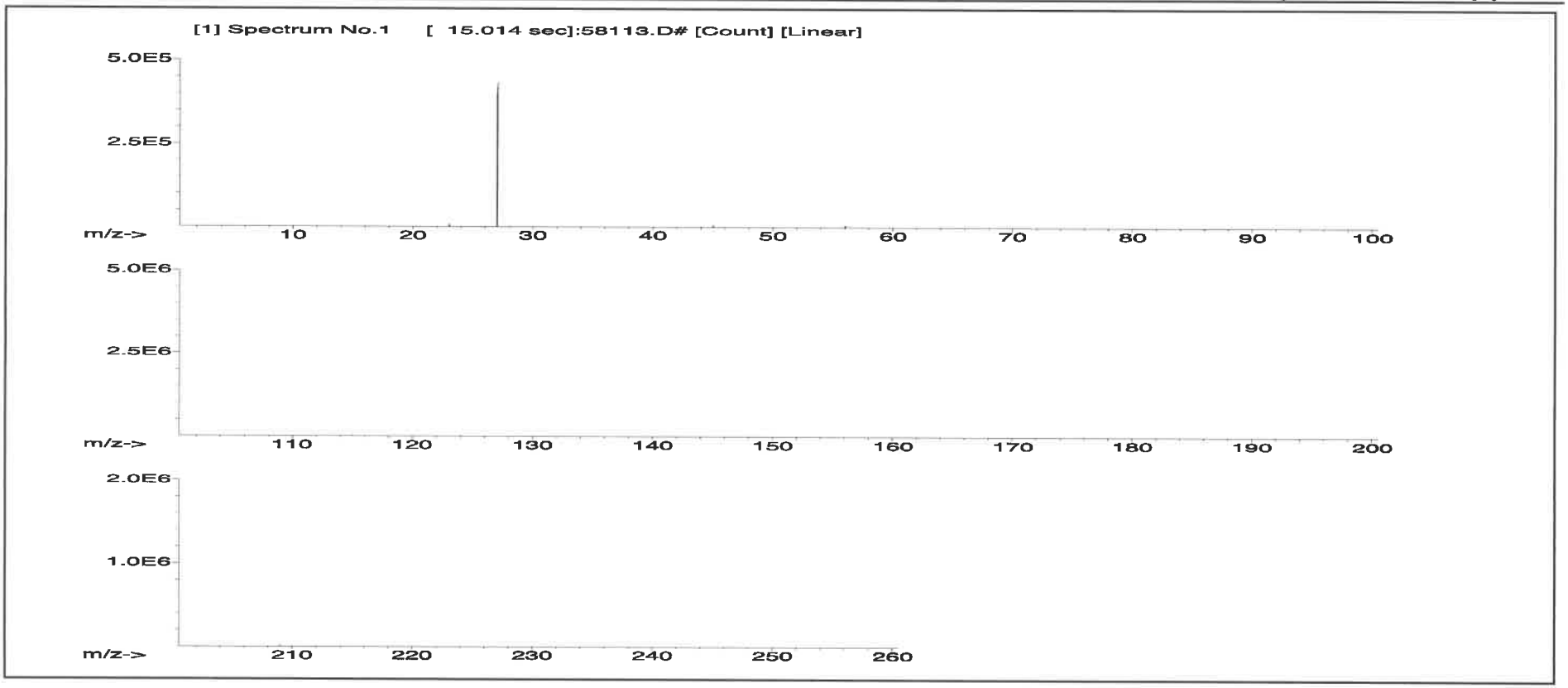
CERTIFIED WEIGHT REPORT:

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
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



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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)

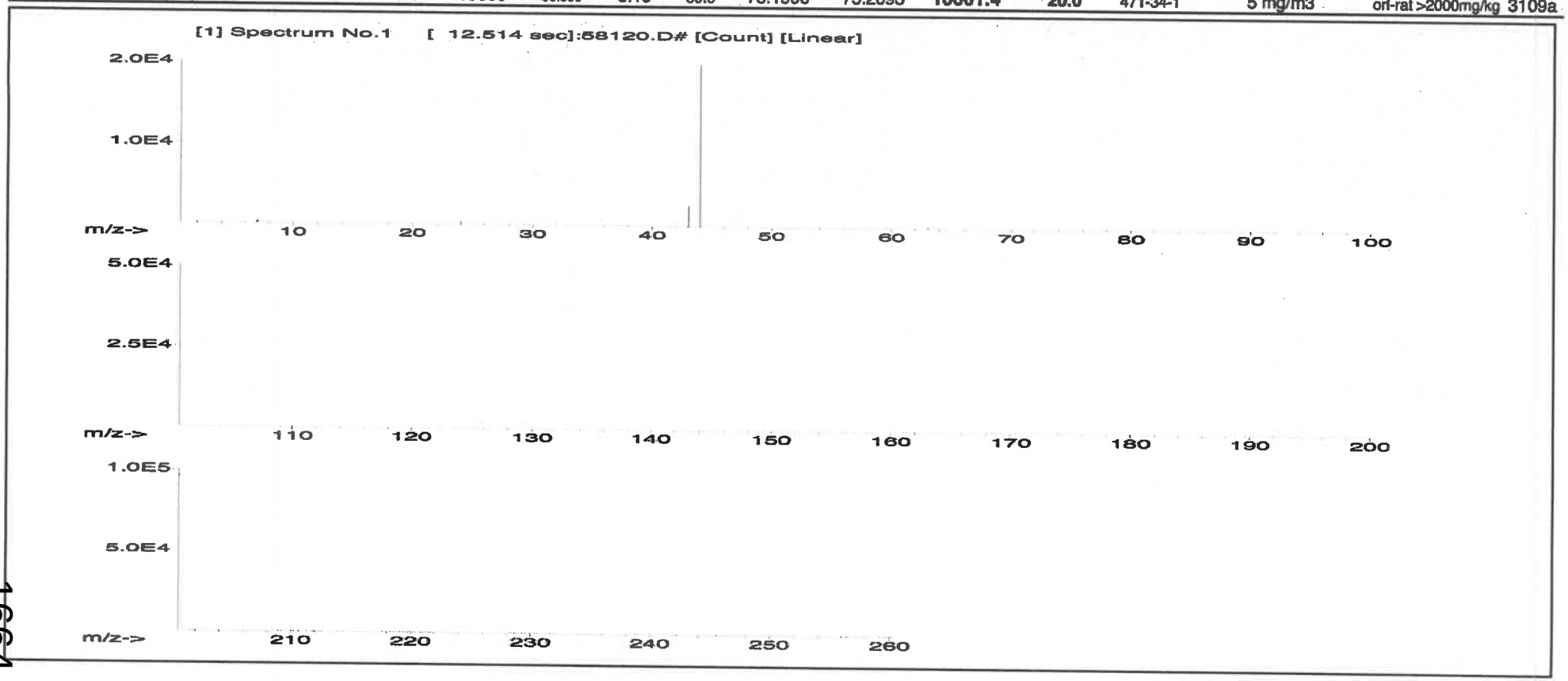
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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



16694

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).

T695

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www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

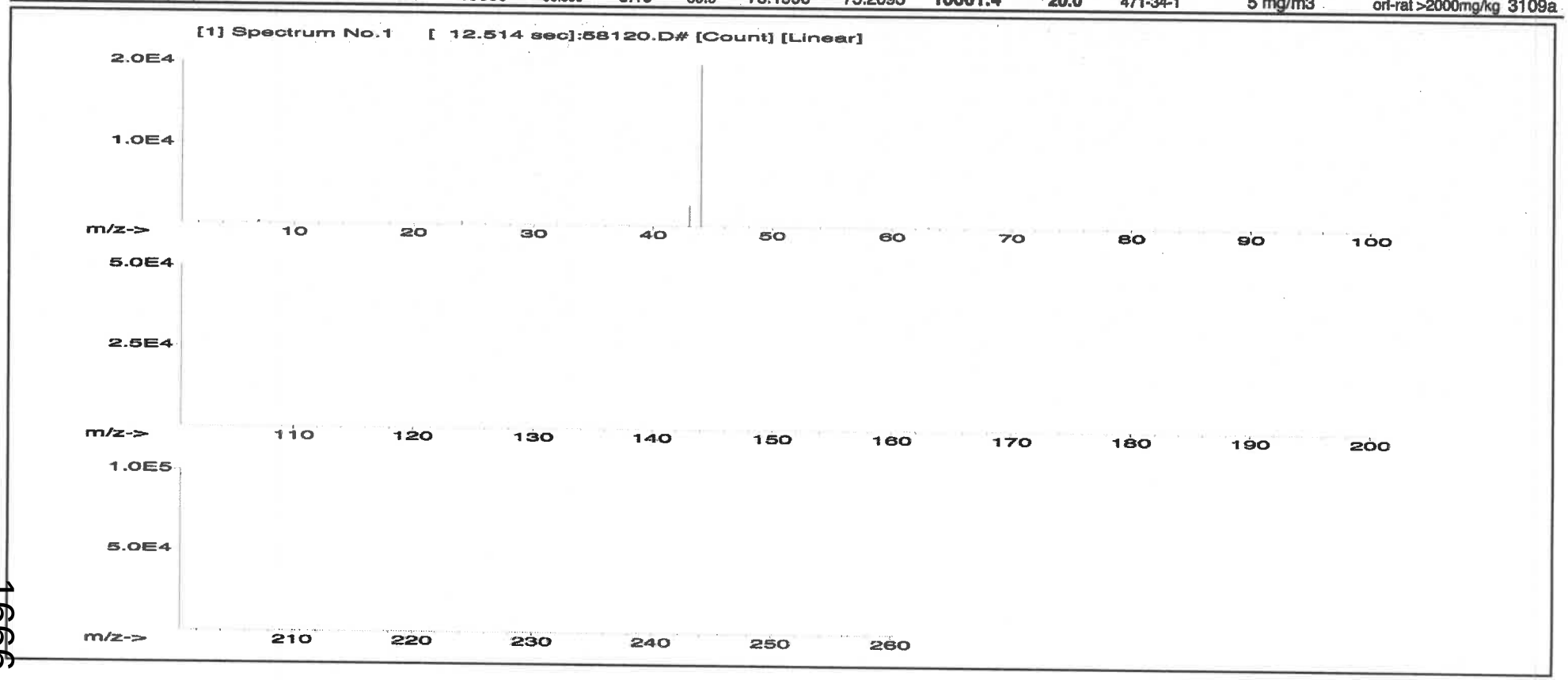
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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



1666

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.
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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).

T667

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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

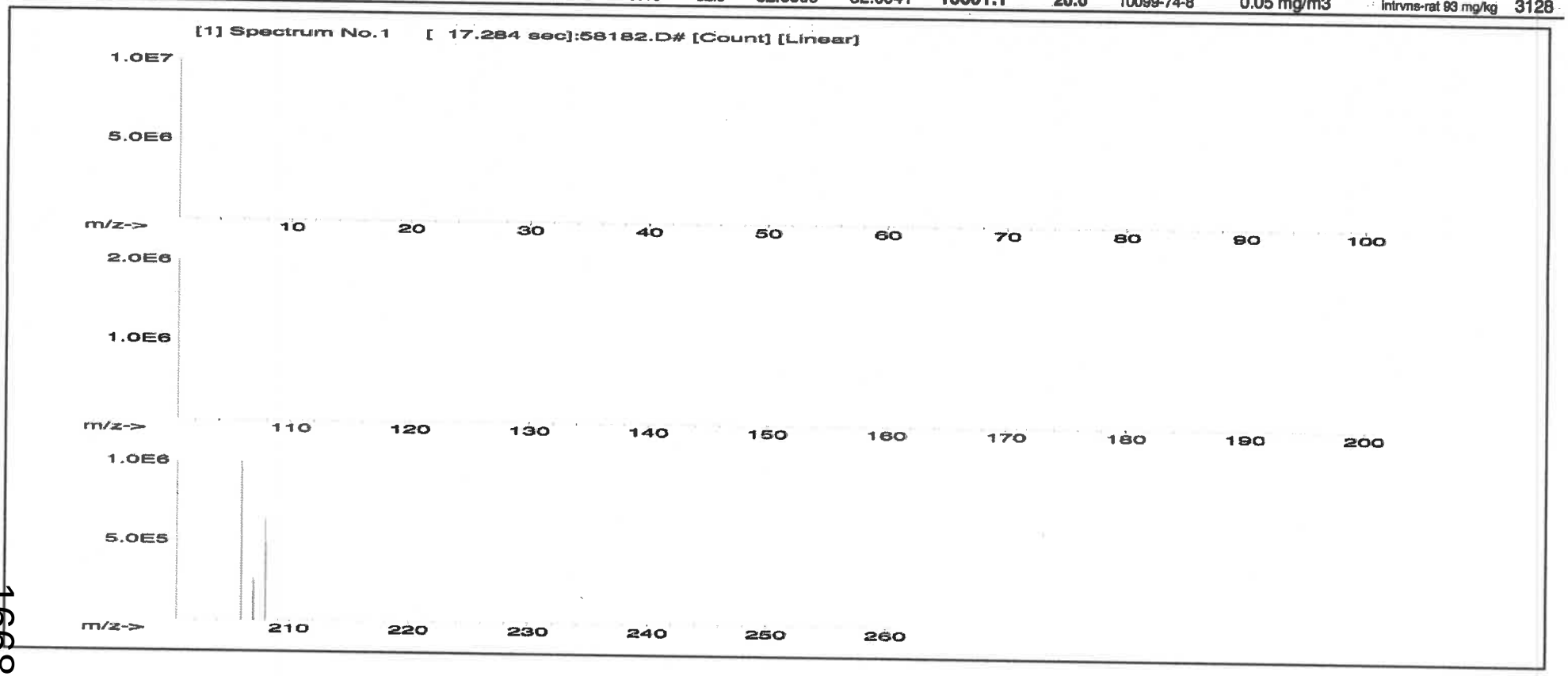
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

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



1668

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.
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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).

T699

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M516 M517 R: 03/17/22 BH

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CERTIFIED WEIGHT REPORT:

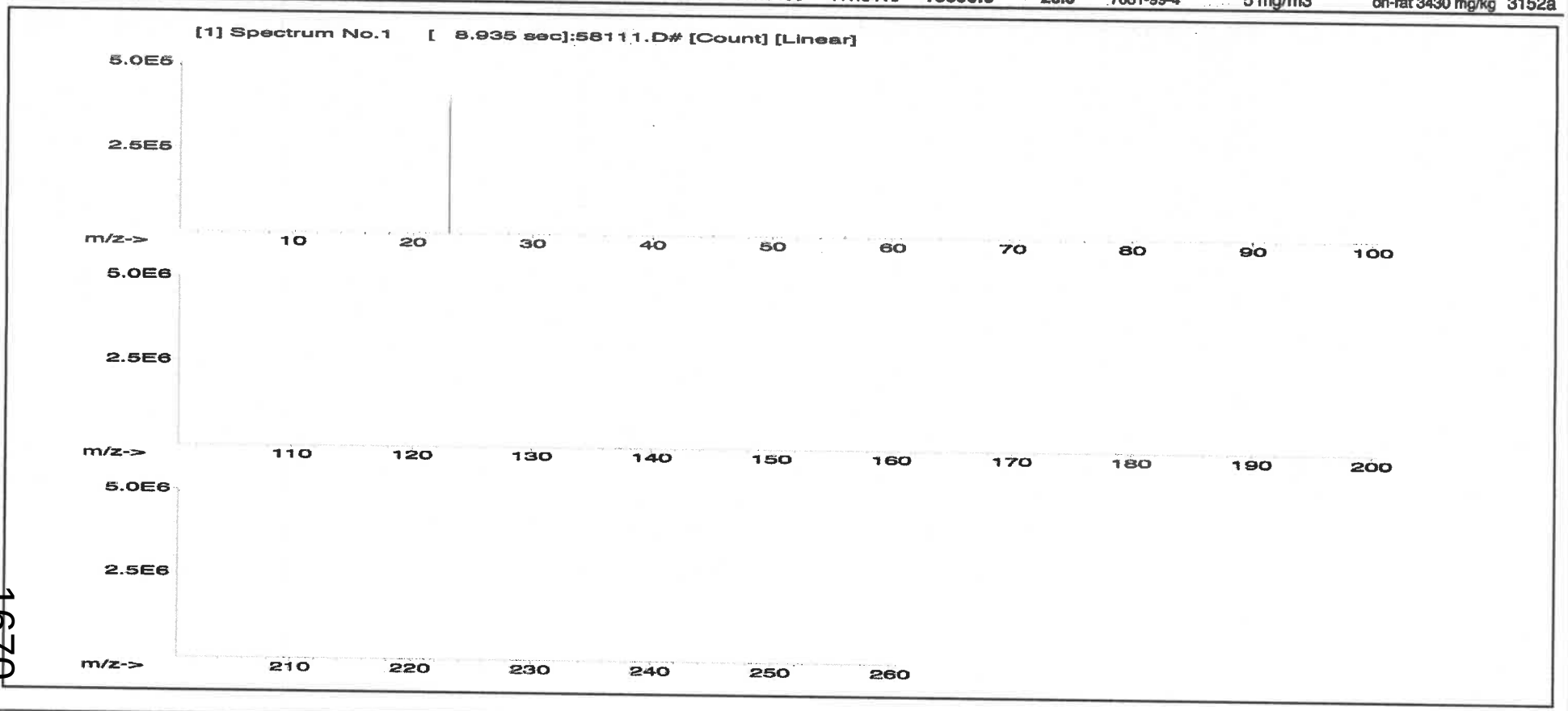
Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

Expiration Date: 022126
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	
	0.06	Flask Uncertainty	

Formulated By:	Lawrence Barry	022123
Reviewed By:	Pedro L. Rentas	022123

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	111.5410	**10000.0**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3430 mg/kg	3152a



1670

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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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1671

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1672

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

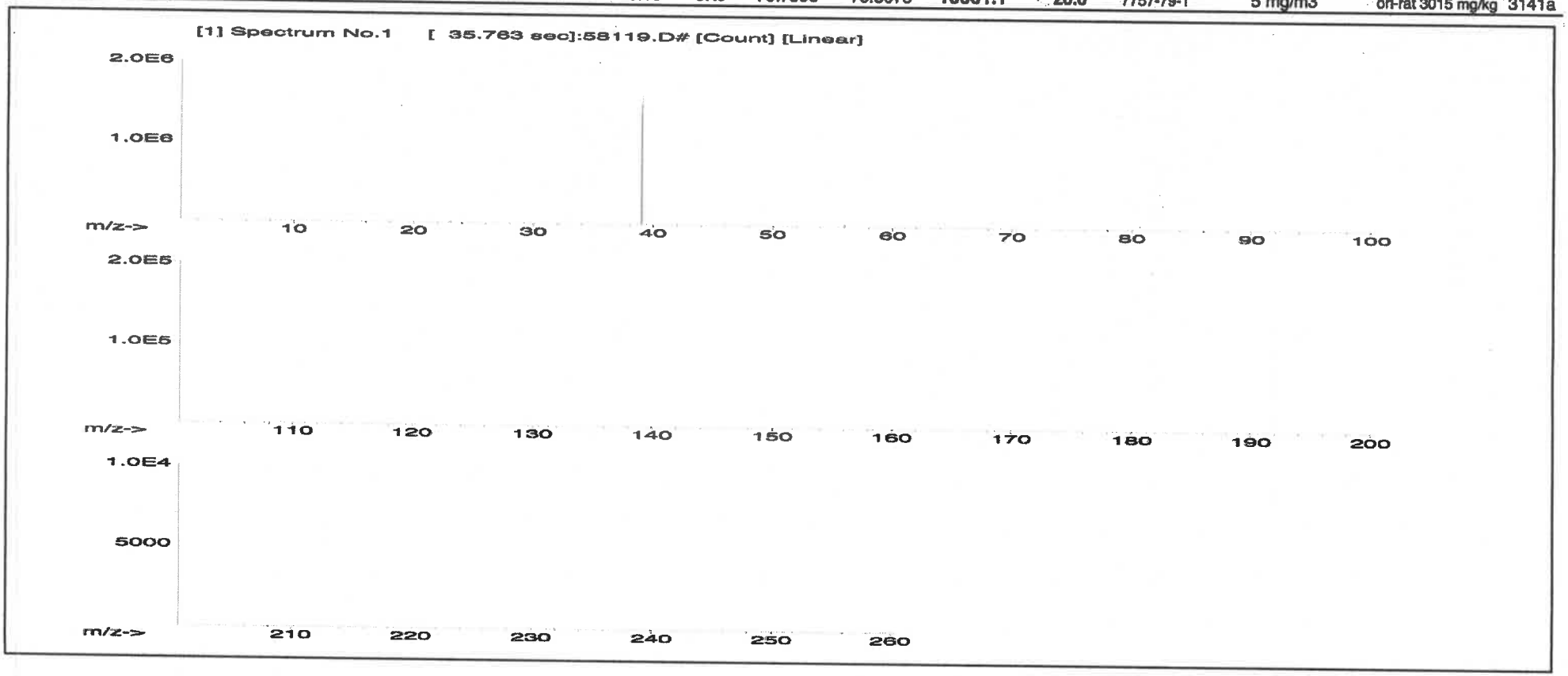
Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	± 5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
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



1673

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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M5658 R! 8/25/23

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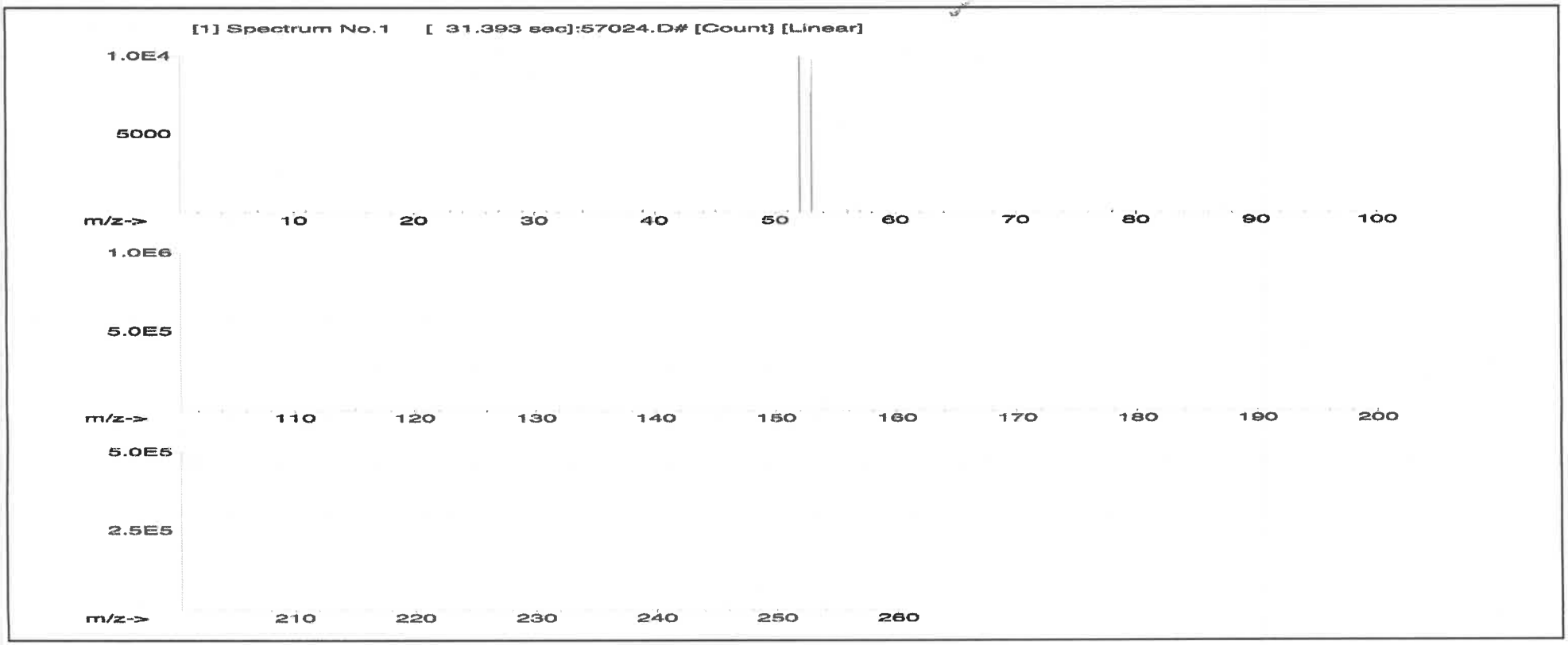
1674

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



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.

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M5697 R: 10/27/23

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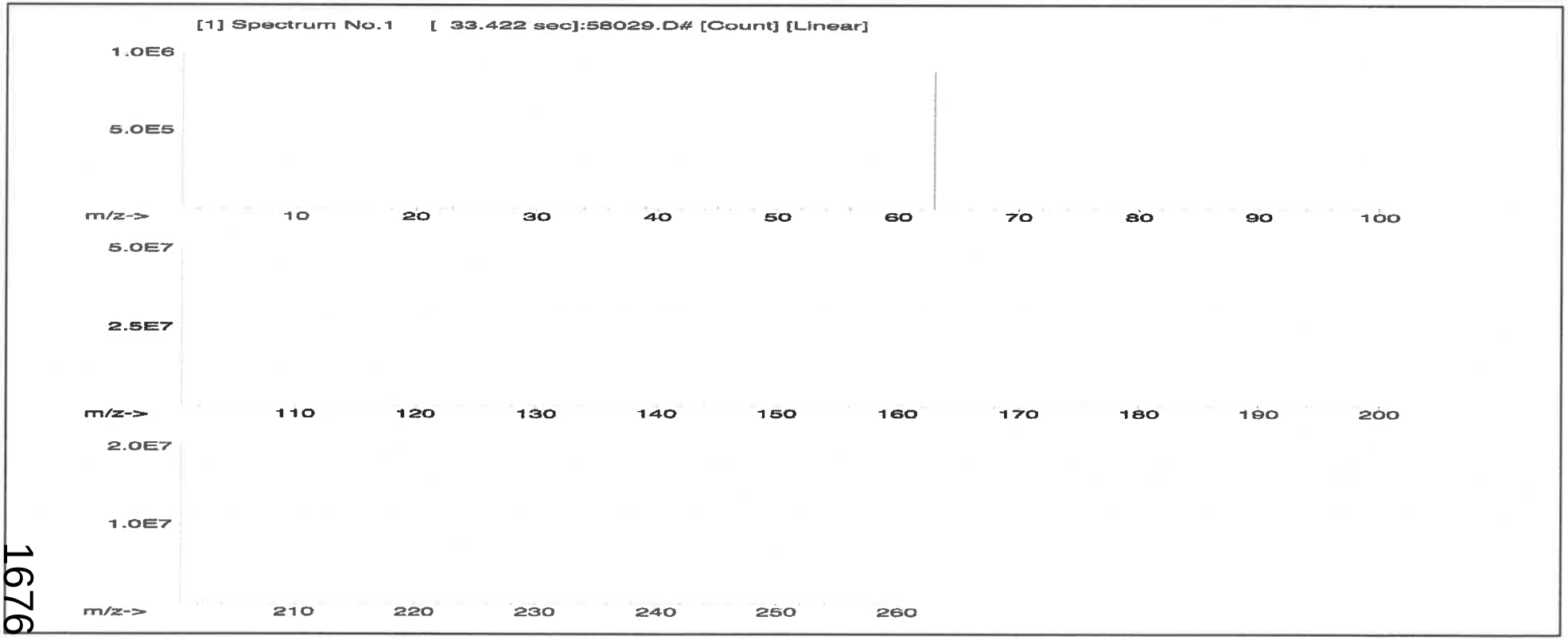
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:
Part Number:	**58029**	24002546	Nitric Acid
Lot Number:	**102523**		
Description:	**Copper (Cu)**		
		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. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



1676

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:

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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* 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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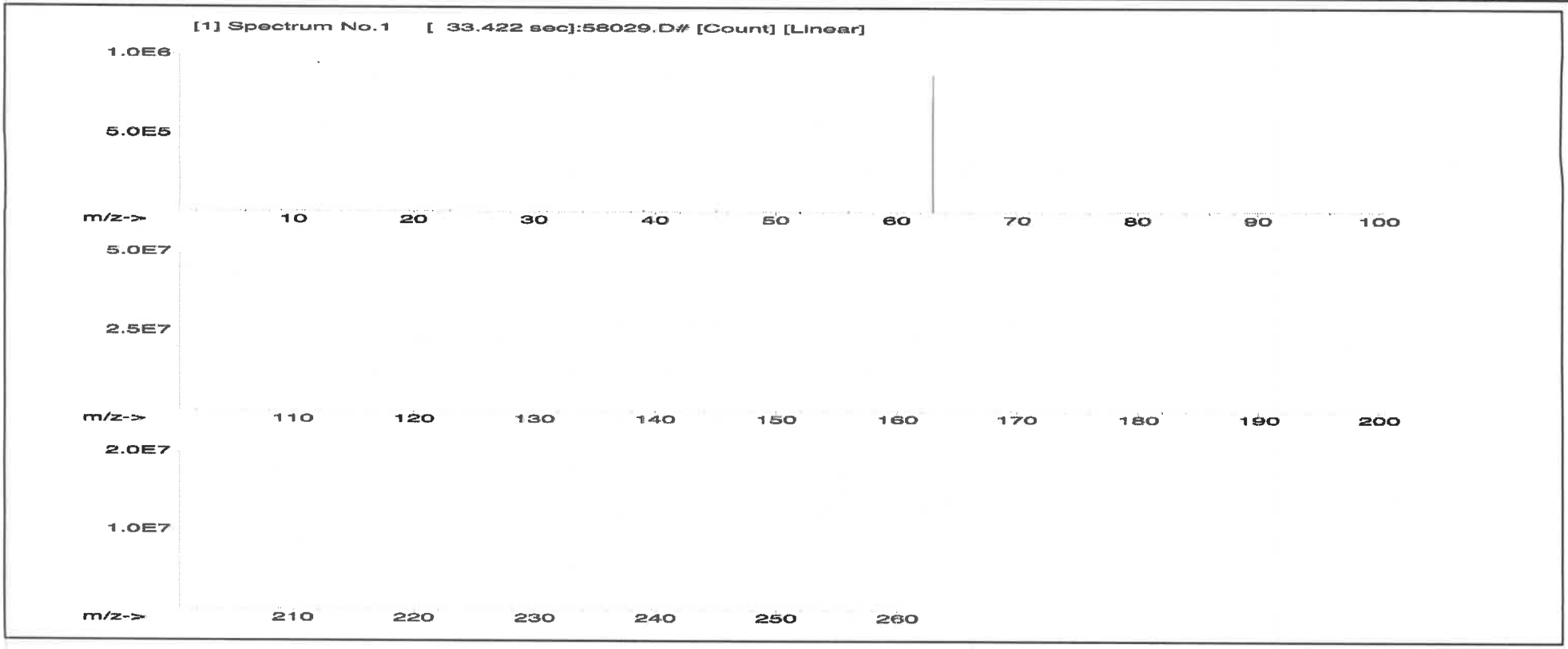
1678

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



16796

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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M5768 M5769 (BP) R:1/3/24

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1680

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

M5768, M5769 (BP) R: 1/3/24

Weight shown below was diluted to (mL): 2000.02 ± 0.058 Flask Uncertainty

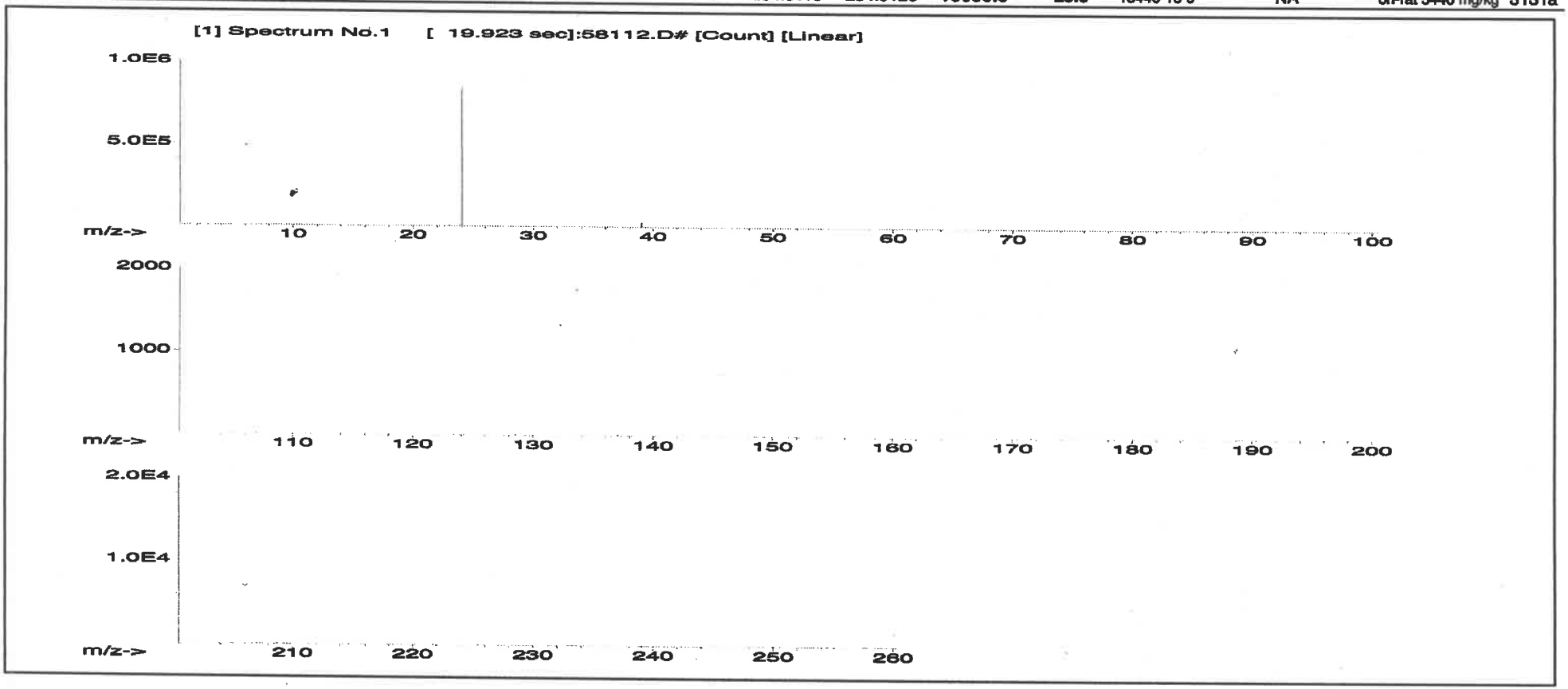
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By: 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	ori-rat 5440 mg/kg	3131a



1681

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:

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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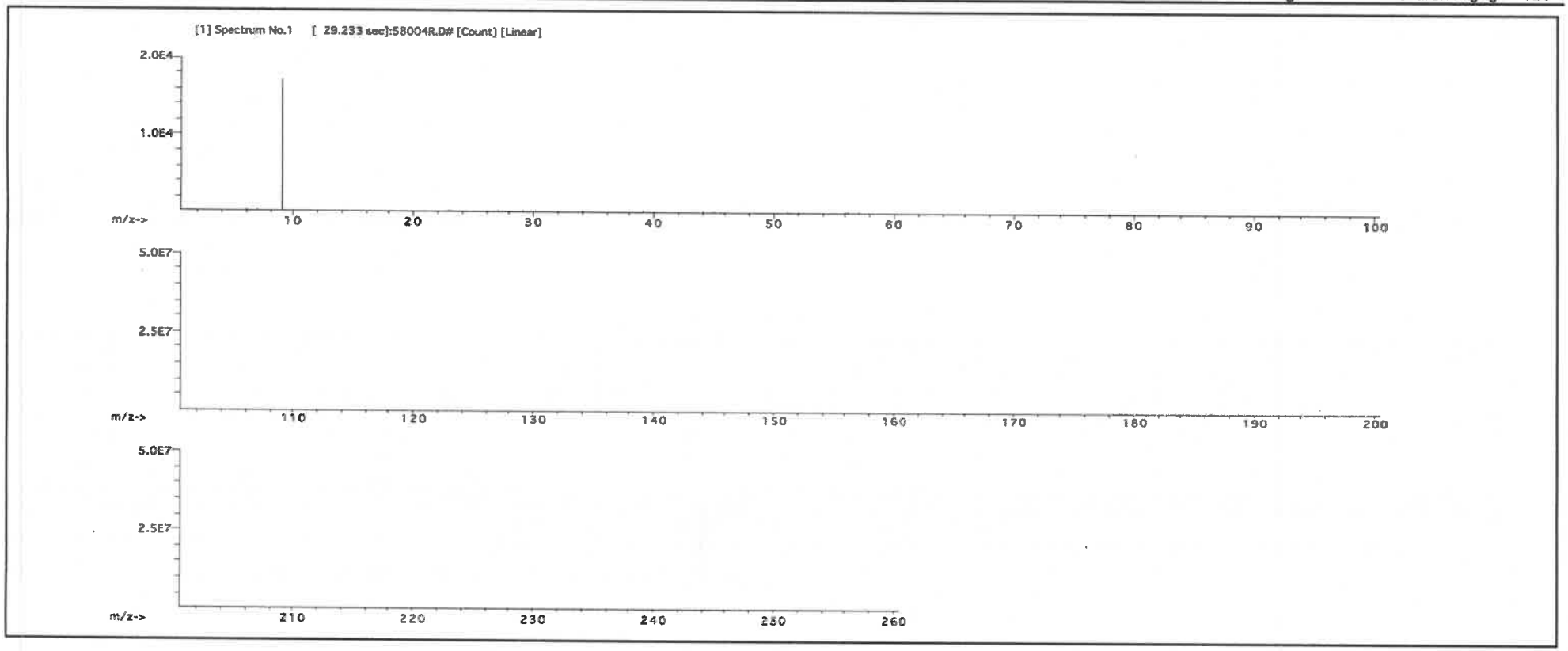
1682

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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1683

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1684

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

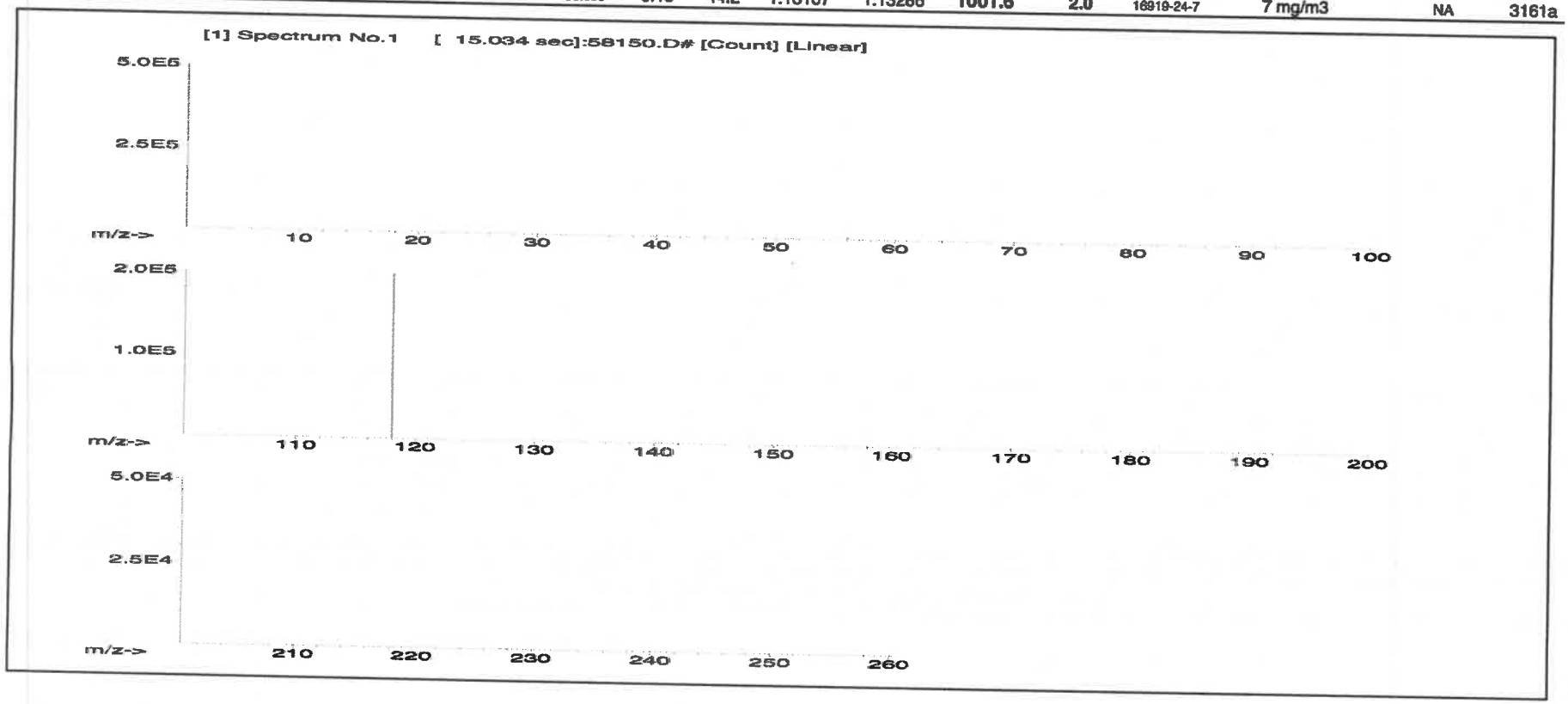
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



1685

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:

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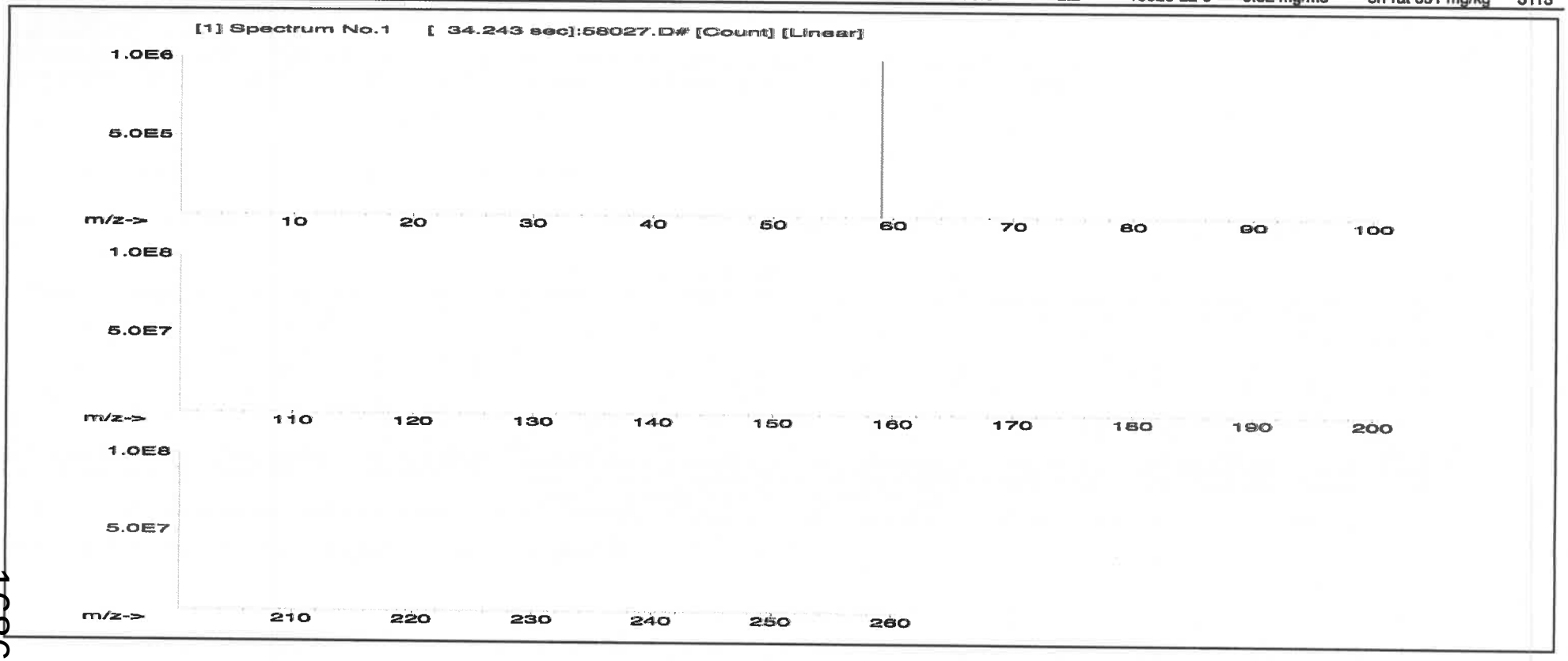
CERTIFIED WEIGHT REPORT:

		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



1686

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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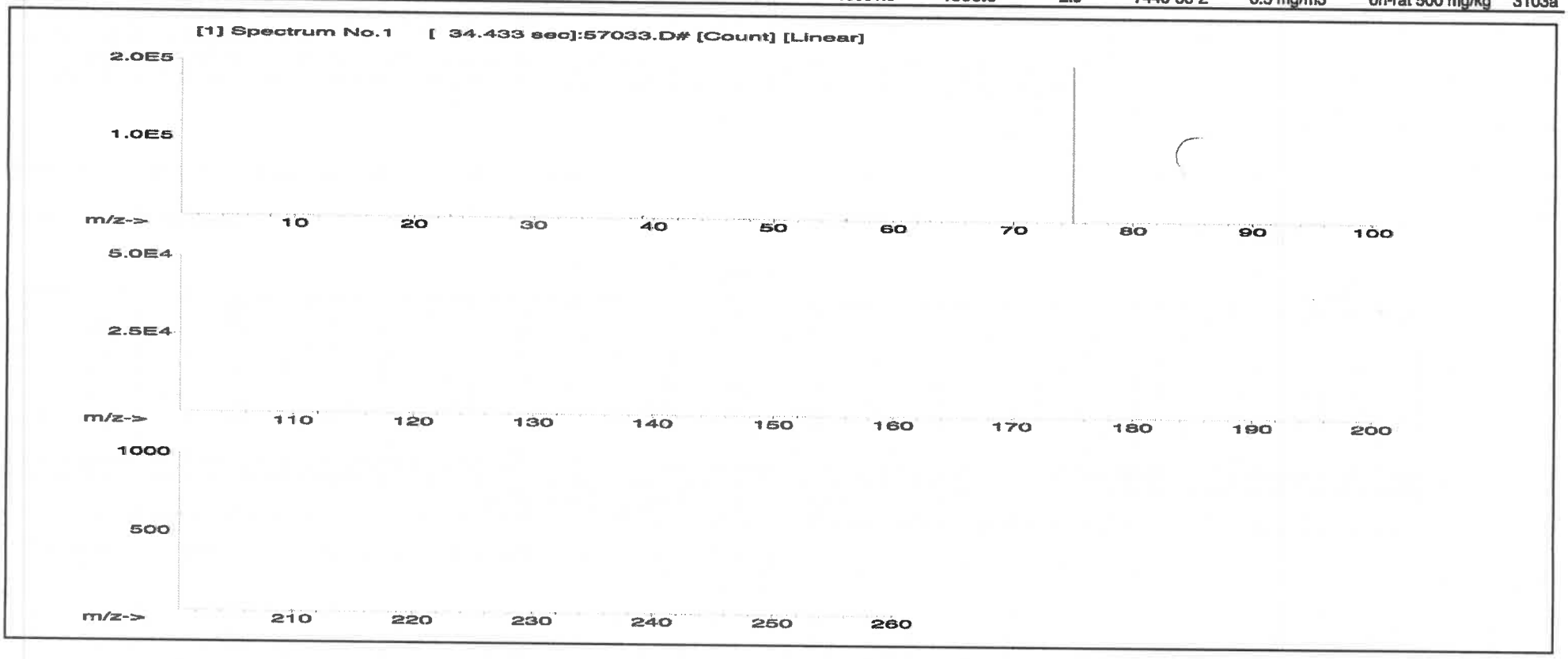
1688

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
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



1689

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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* 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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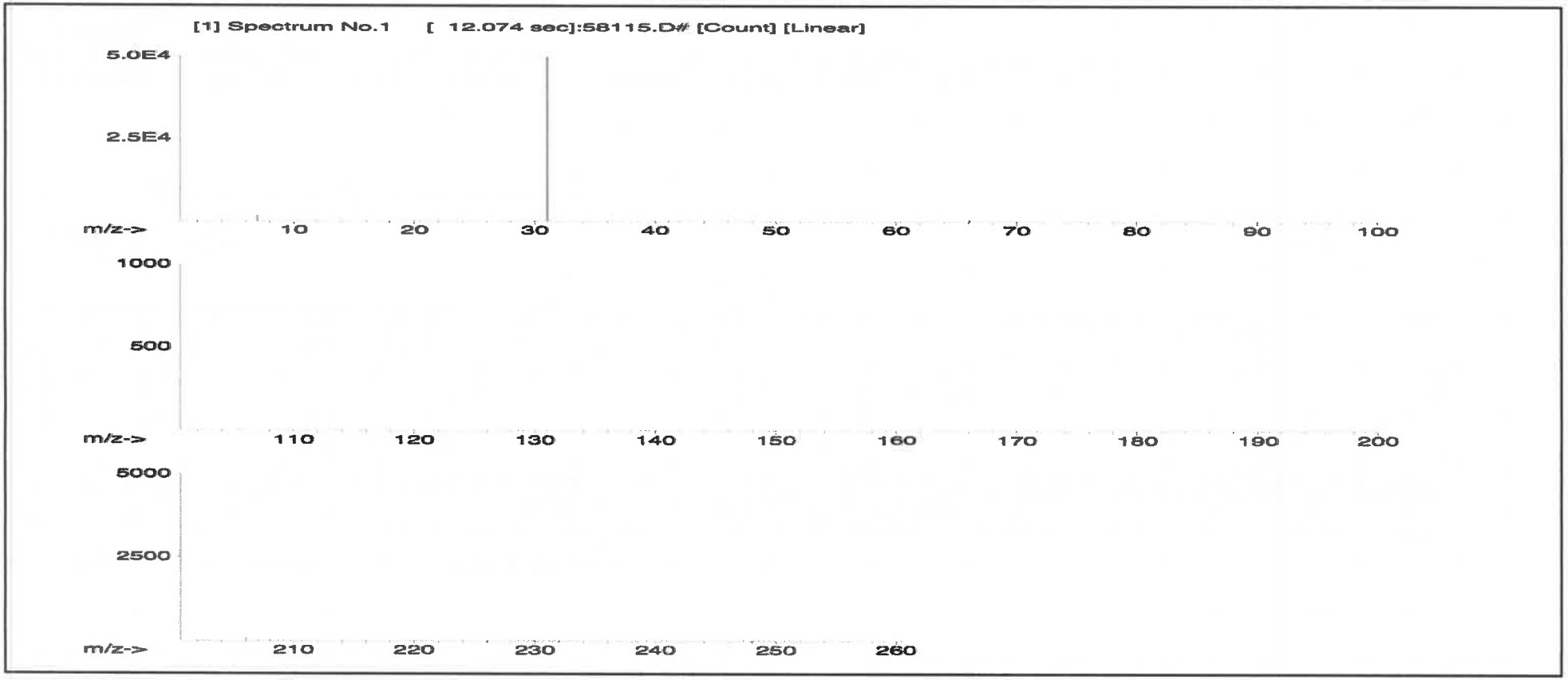
1690

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



1691

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.

* 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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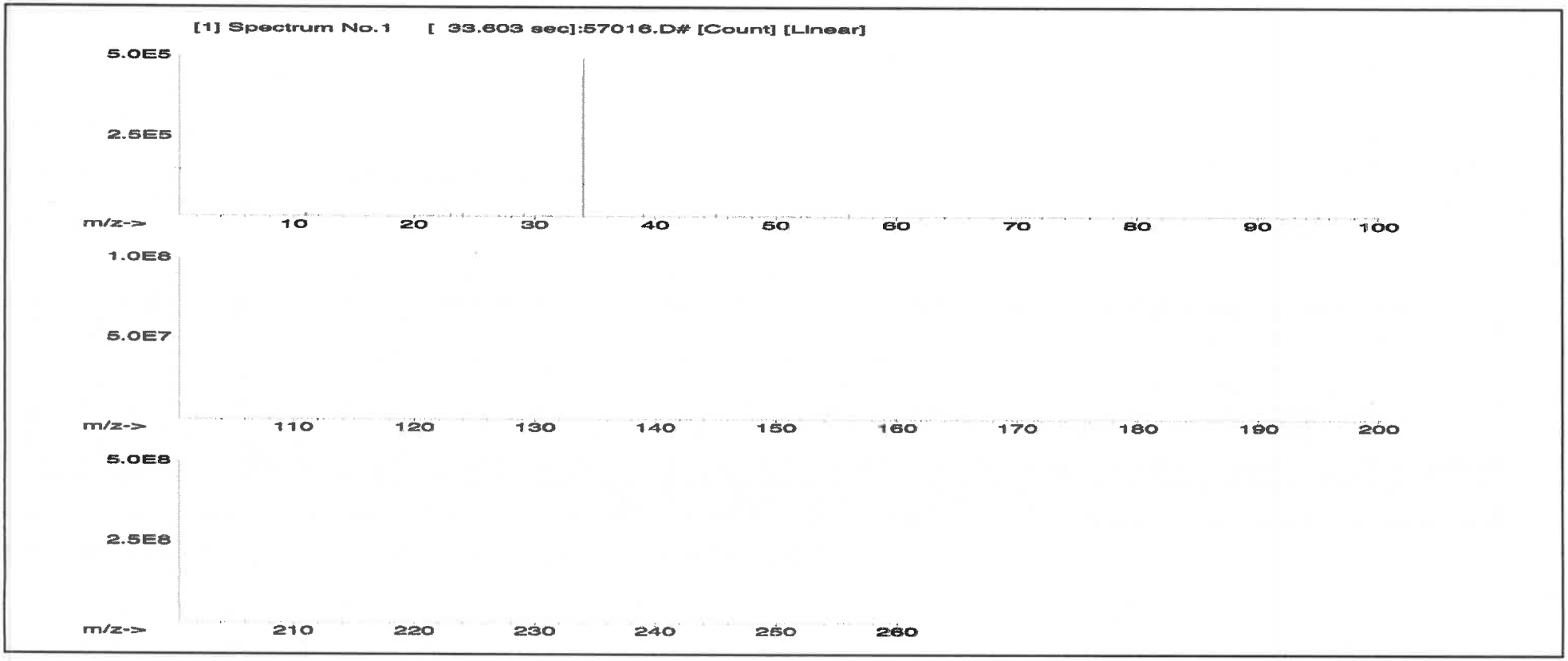
1692

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



1693

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:

* 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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1694

CERTIFIED WEIGHT REPORT:

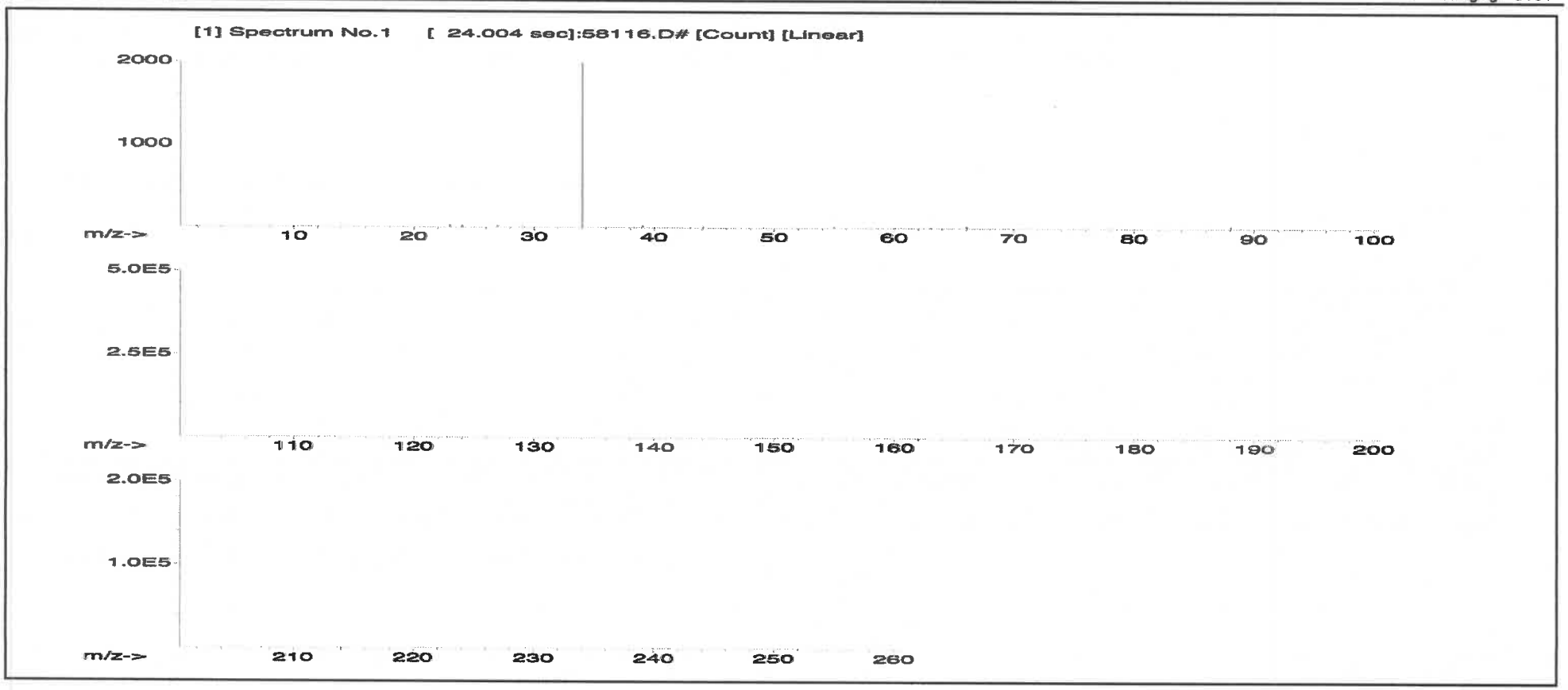
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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	ori-rat 4250mg/kg	3181



16995

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.
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1696

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

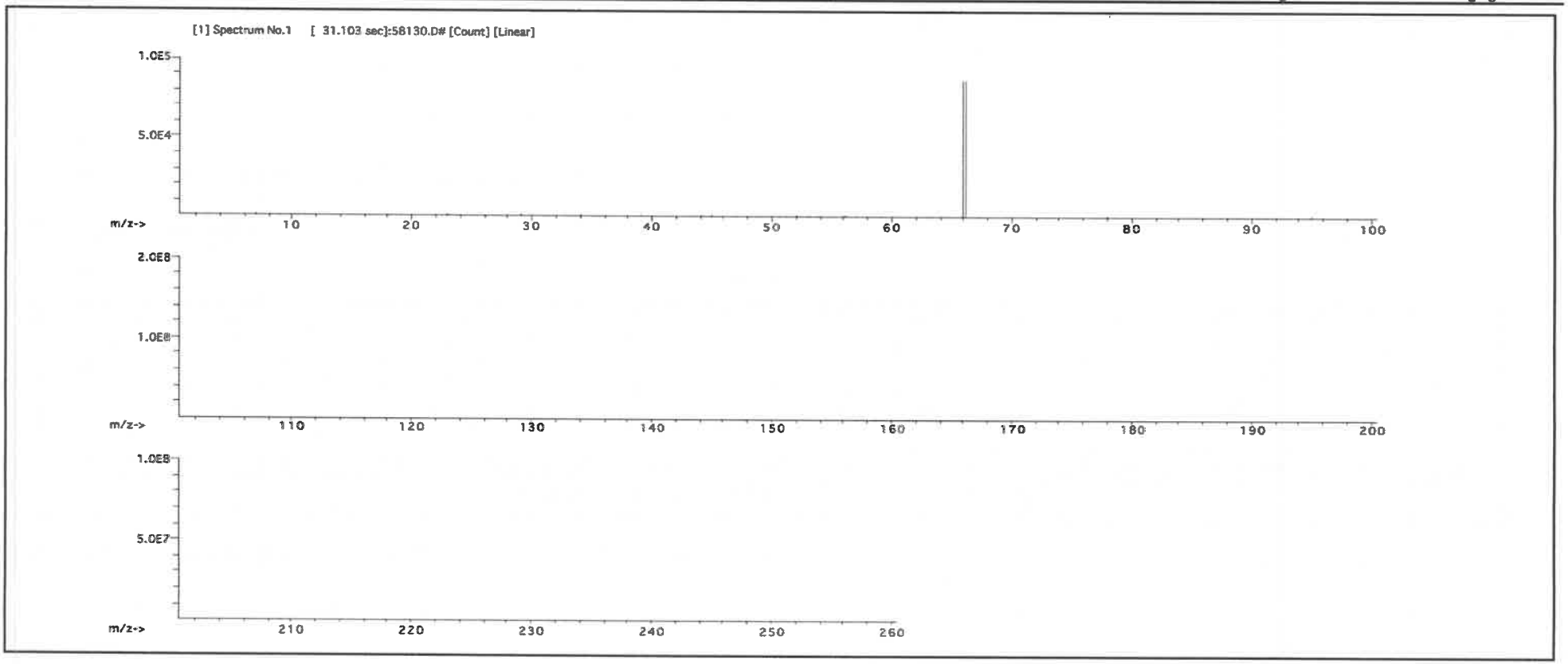
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

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



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:

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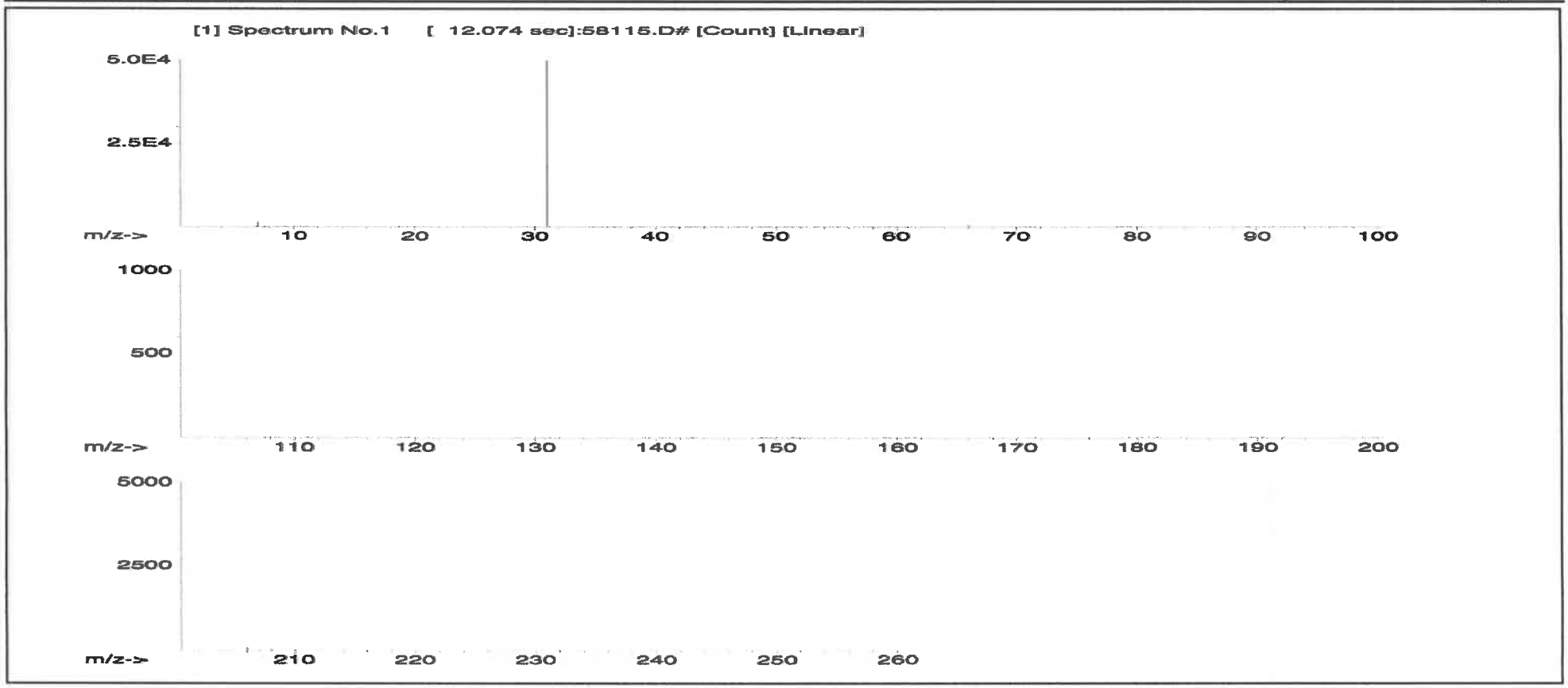
1698

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



16695

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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M5961 R: 6/11/24

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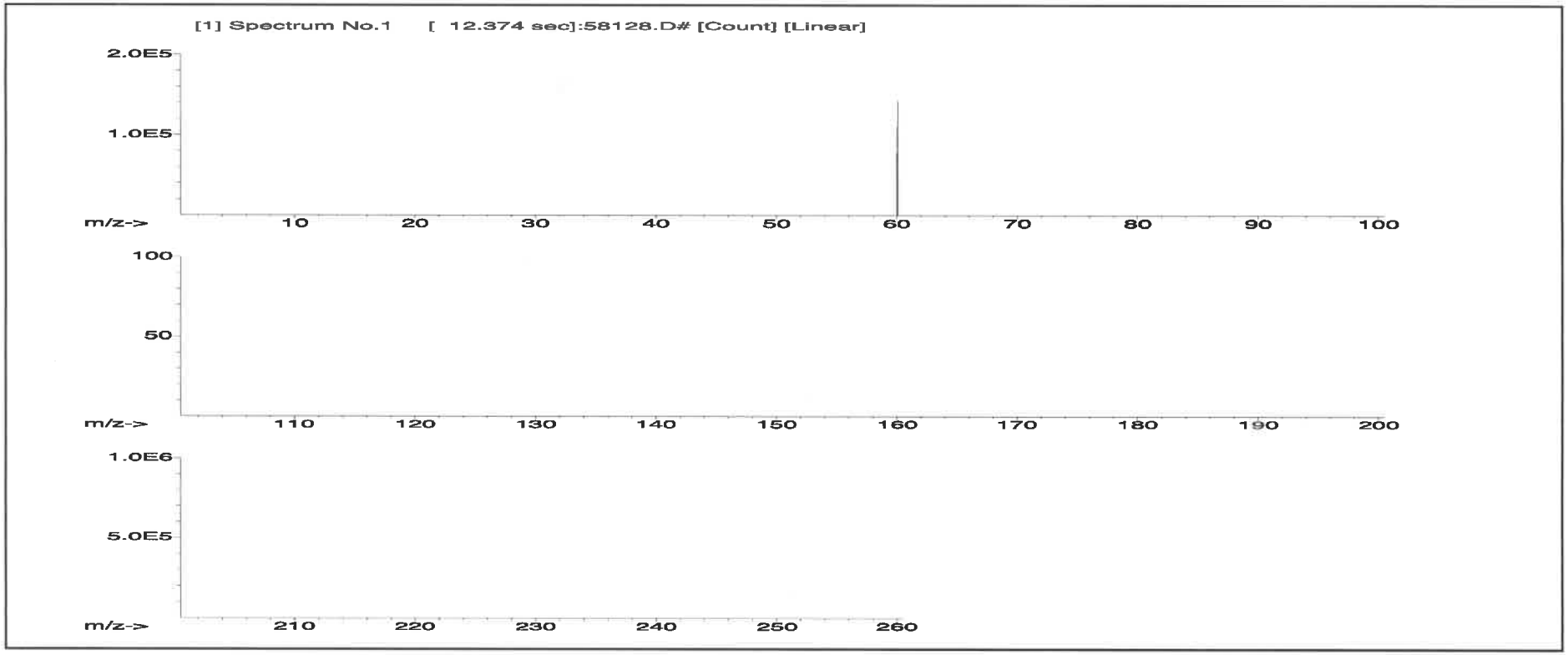
1700

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



1701

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.

* 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

M5962 R! 06/14/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

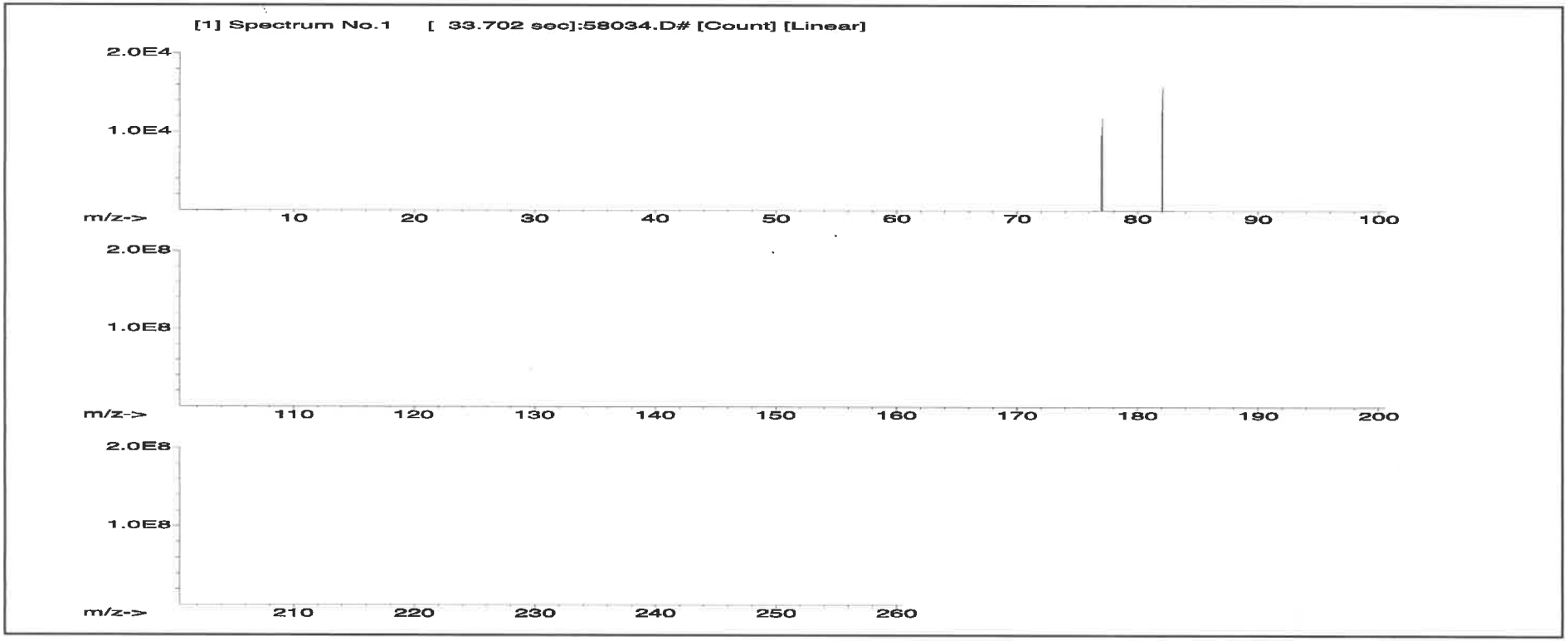
1702

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



1703

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:

* 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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Certificate of Analysis

M5976, M5977
R: 02/22/24

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:	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

1704

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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Certificate of Analysis

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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:	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

1708

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

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Certificate of Analysis

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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:

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = 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:

$X_{CRM/RM} = (\bar{x}_a)\,(u_{char\ a})$

$\bar{x}_a$ = 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		

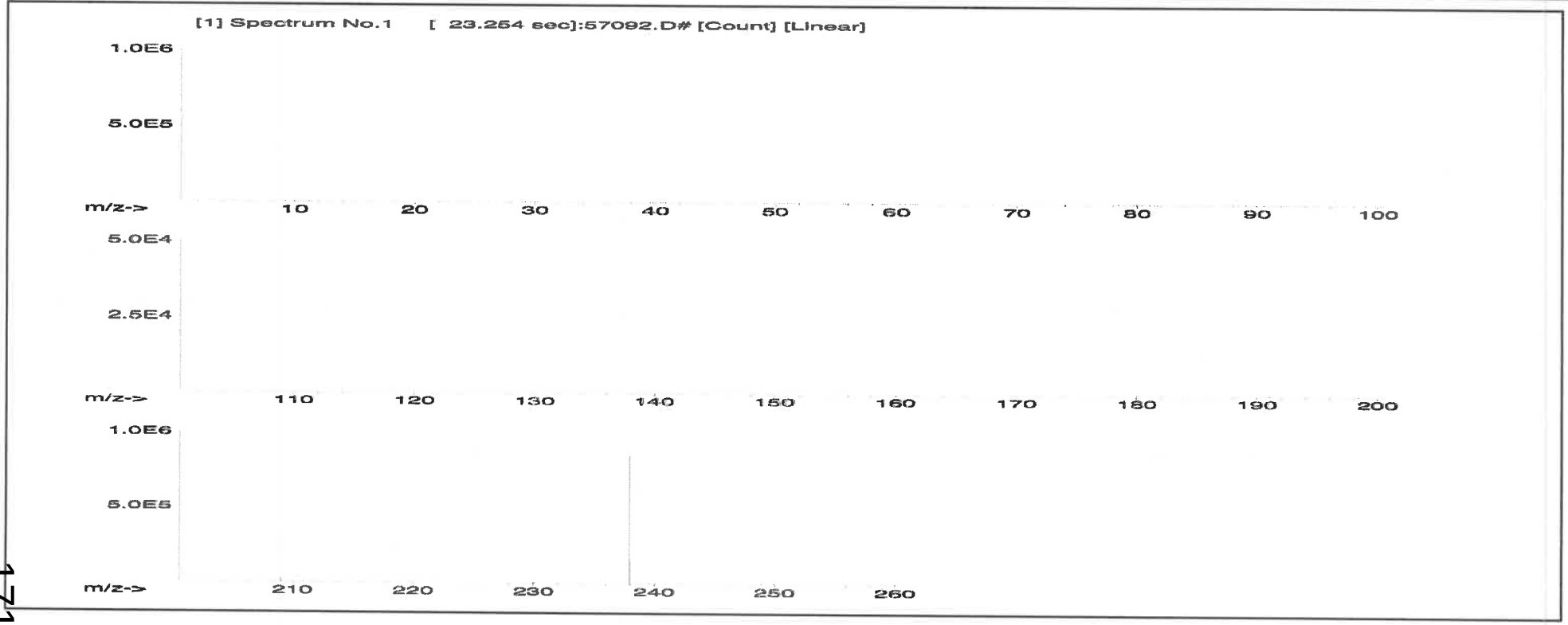
Giovanni Esposito

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.
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www.absolutestandards.com

Certified Reference Material CRM

M5983 R: 6/11/24

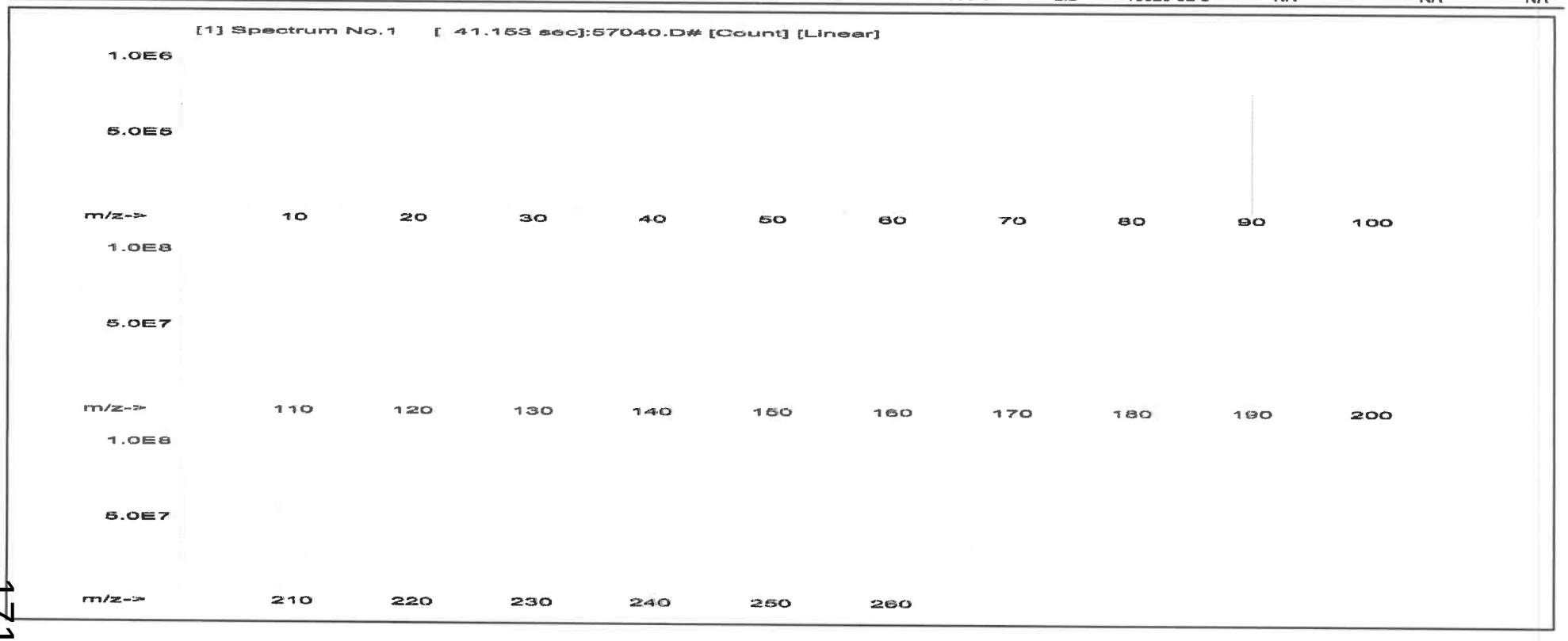
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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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

R: 2/22/2024
M5999

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:

1720

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

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

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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R 8/19/24, M60055

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:	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®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
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
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

1731

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

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

1732

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
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	2.3 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	100 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.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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1735

CERTIFIED WEIGHT REPORT:

R -> 1/13/25

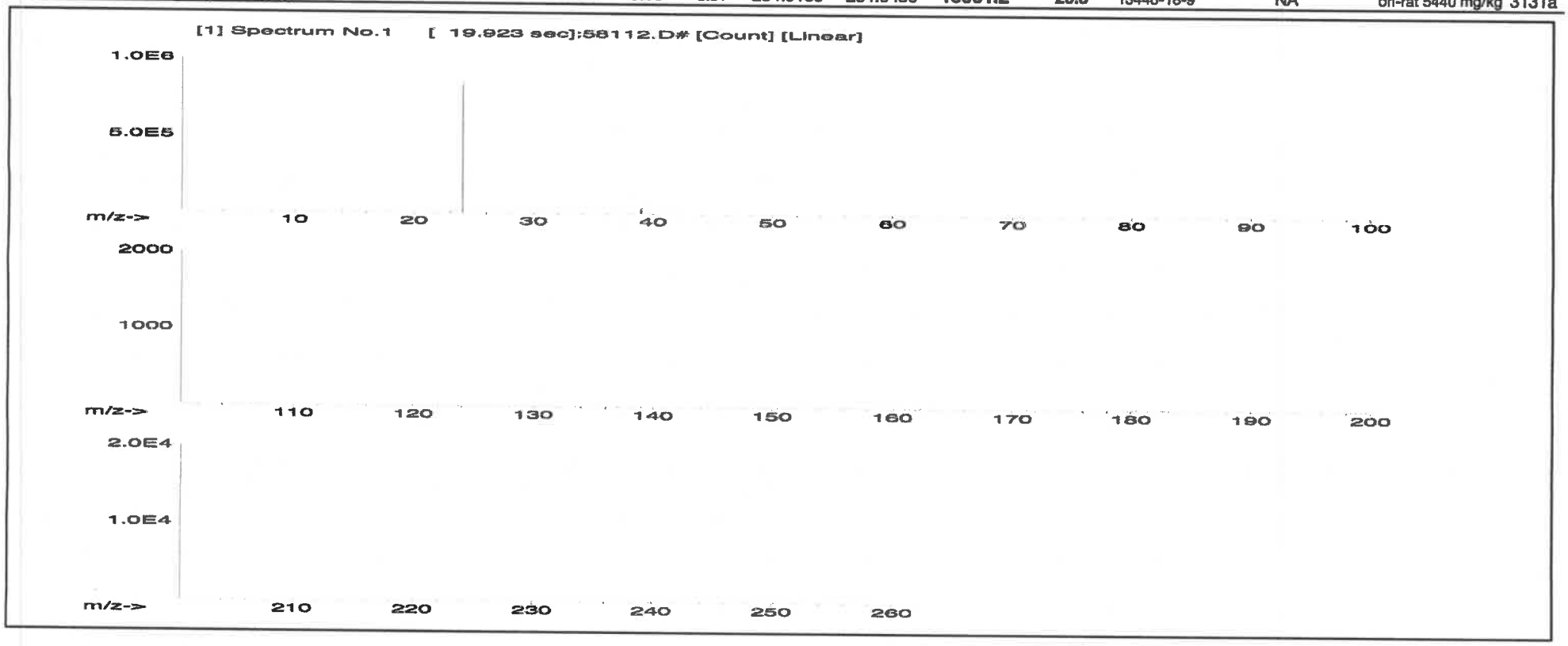
M 6127

Part Number:	**58112**		**Lot #**		
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid	
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	112127				
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):	2000.07	0.100	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

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	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



1736

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:

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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1737

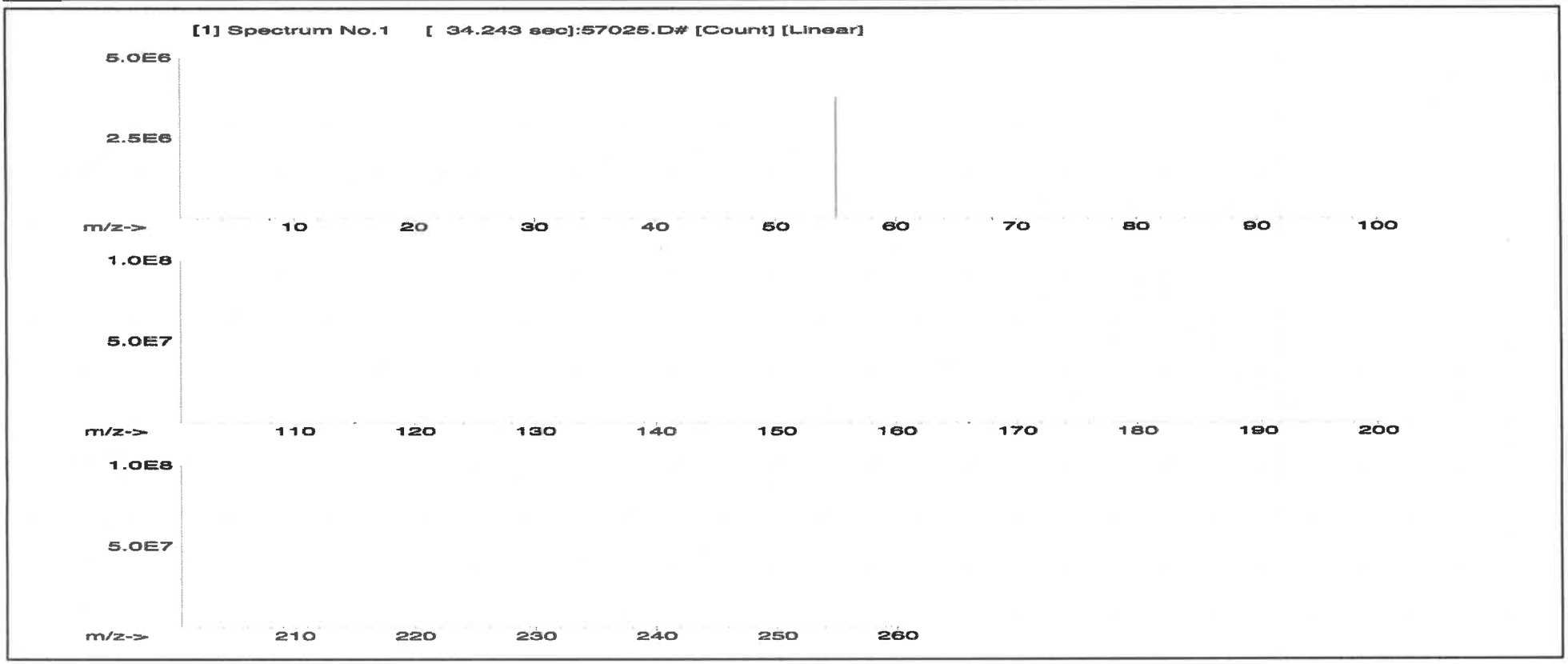
CERTIFIED WEIGHT REPORT:

R->1/13/25
M6128

Part Number:	**58025**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**				
Description:	**Manganese (Mn)**		2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127				
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):	4000.2	0.10	Flask Uncertainty		

Giovanni Esposito	
Formulated By:	Giovanni Esposito 101124
Pedro Rentas	
Reviewed By:	Pedro L. Rentas 101124

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. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



1738

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 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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www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5806, M5807

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1739

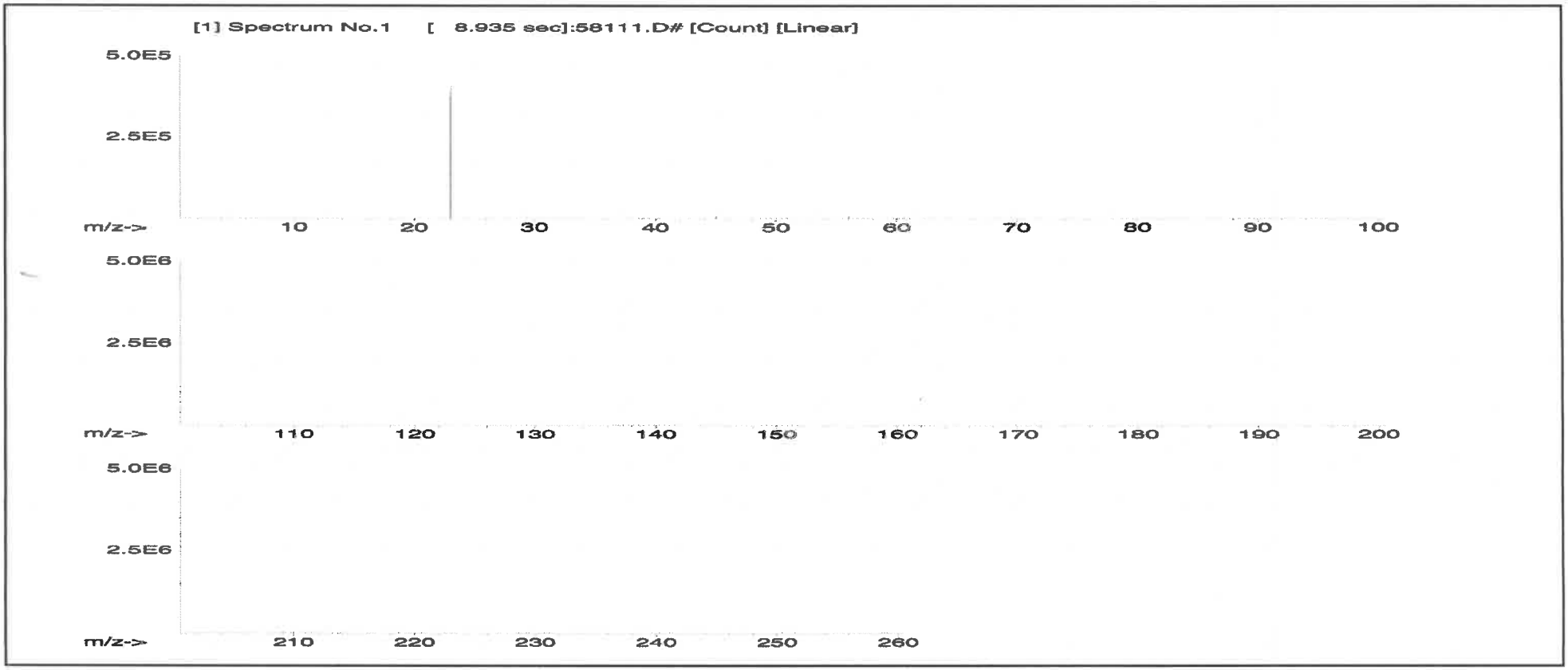
CERTIFIED WEIGHT REPORT:

			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
Reviewed By:	Pedro L. Rentas	122223

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



1740

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:

1741

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.

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.

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R: 01/03/24 M5802, M5803

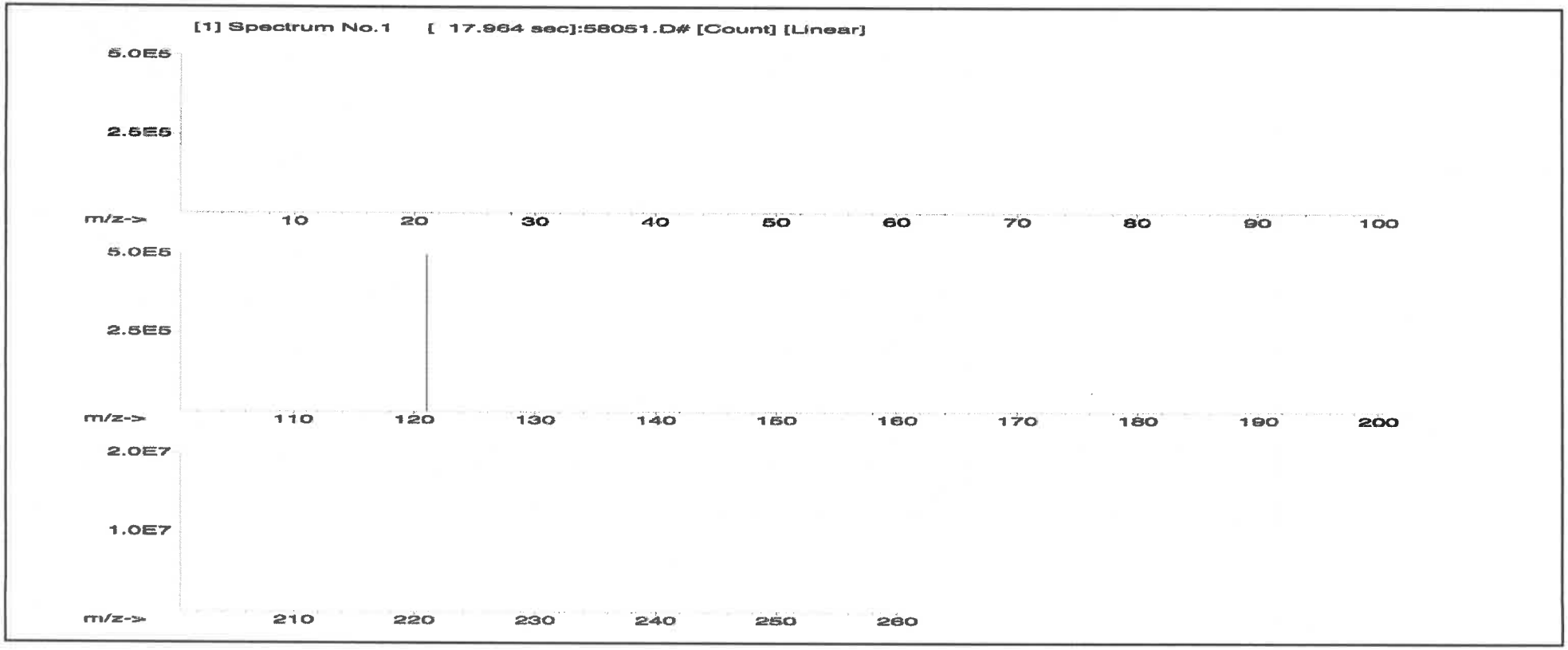
1749

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



17500

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).

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M6030

R: 8/5/24

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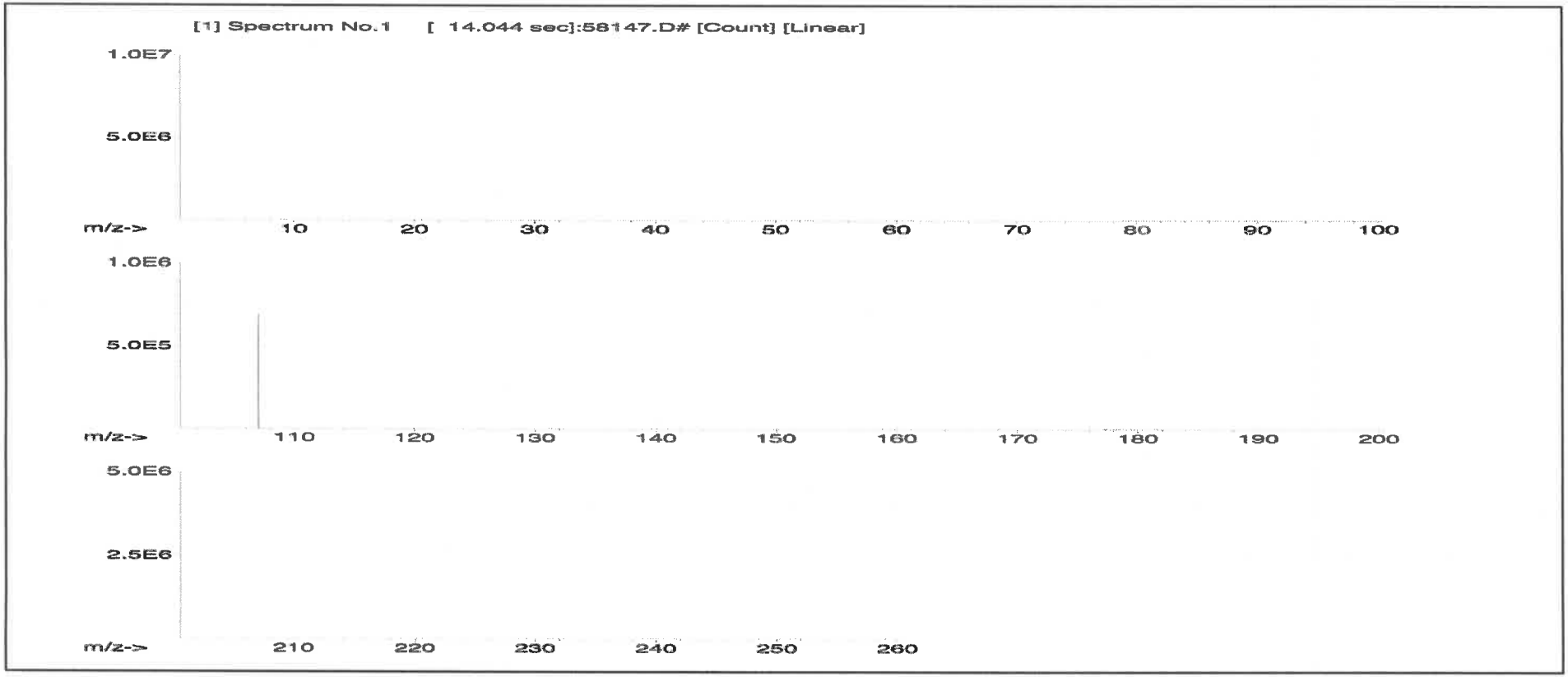
1751

CERTIFIED WEIGHT REPORT:

Part Number:	**57047**			**Lot #**	
Lot Number:	**122823**	**Solvent:**	24002546	Nitric Acid	
Description:	**Silver (Ag)**				
		2%	80.0 (mL)	Nitric Acid	
Expiration Date:	122826				
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):	4000.30	0.058	Flask Uncertainty		

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



1752

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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R: 10/18/24

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1753

CERTIFIED WEIGHT REPORT:

MG146

		Lot #	Solvent:		
Part Number:	**57051**	24002546	Nitric Acid		
Lot Number:	**071724**				
Description:	**Antimony (Sb)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	071727				
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):	2000.26	0.058	Flask Uncertainty		

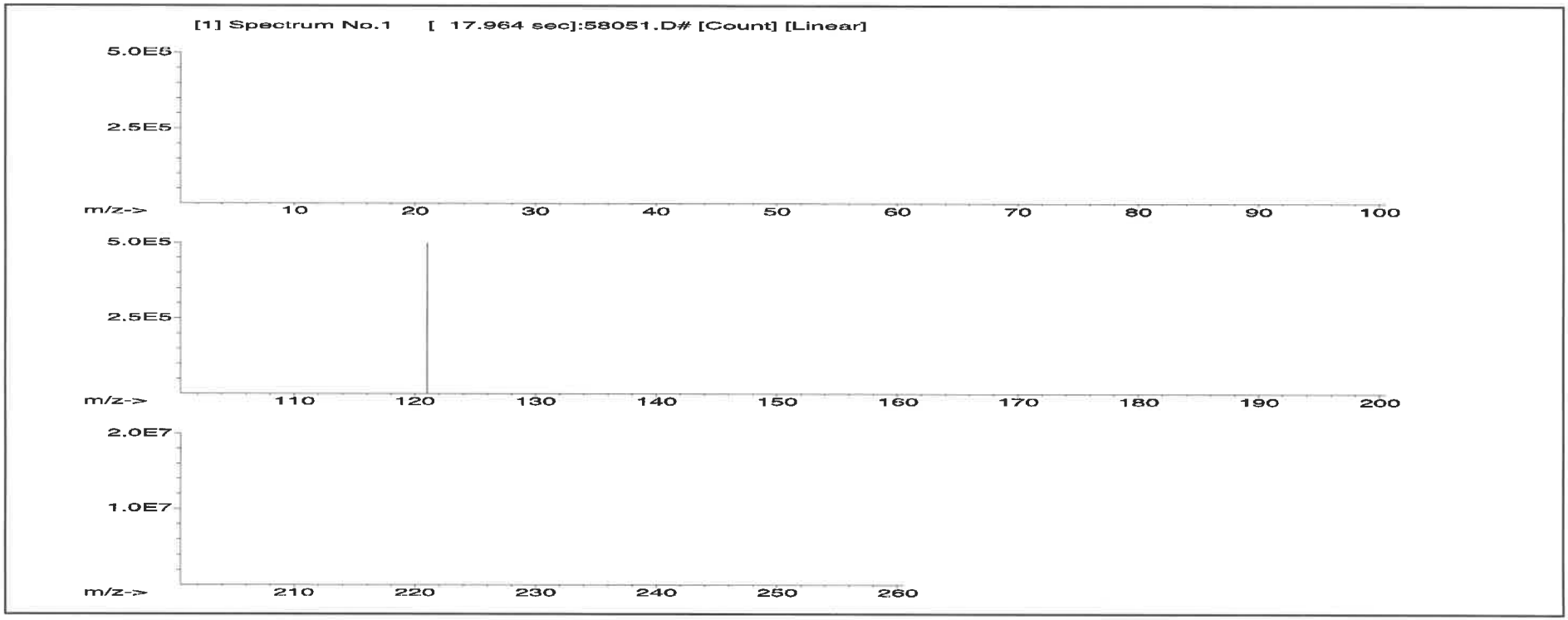
Giovanni Esposito

Formulated By:	Giovanni Esposito	071724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	071724

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	060324	0.1000	200.0	0.084	1000	10001.4	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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).

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Certificate of Analysis

R: 8/5/24 M6019

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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 888.01 ACCREDITED Reference Material Producer Certificate 888.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 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 Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- 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

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	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

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

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**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute 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 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

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

March 03, 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

- **March 03, 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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

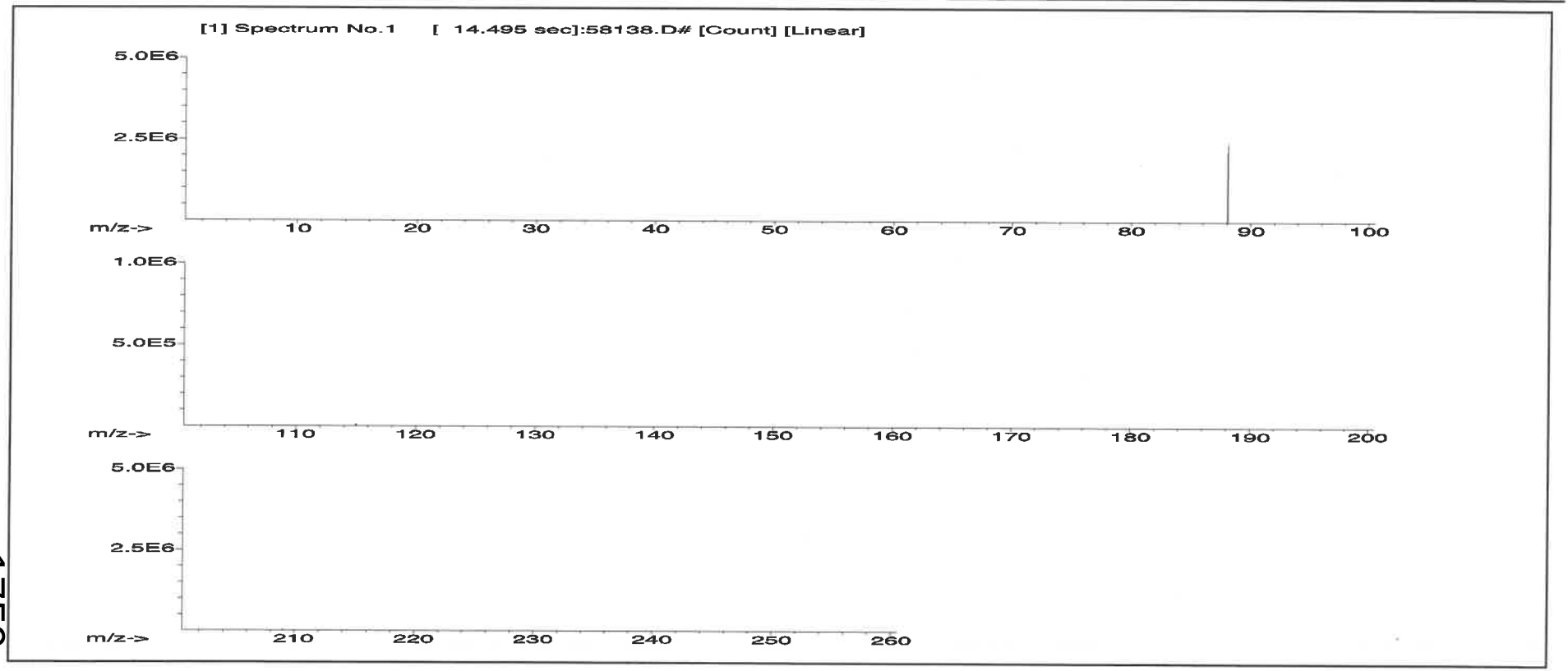
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



1759

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.
* 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).

1760

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R ! 8/5/24

1761

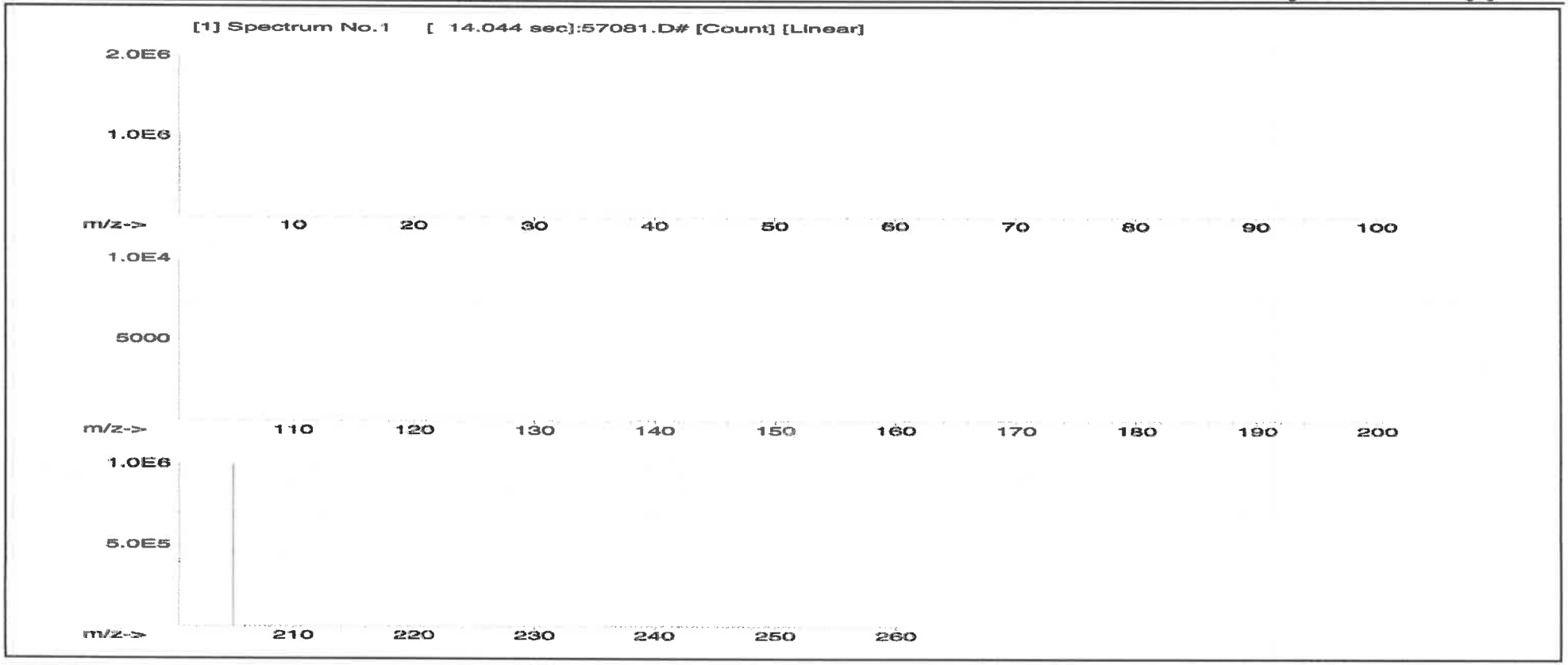
CERTIFIED WEIGHT REPORT:

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



1762

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.
* 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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Rc. 8/5/24

1763

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	

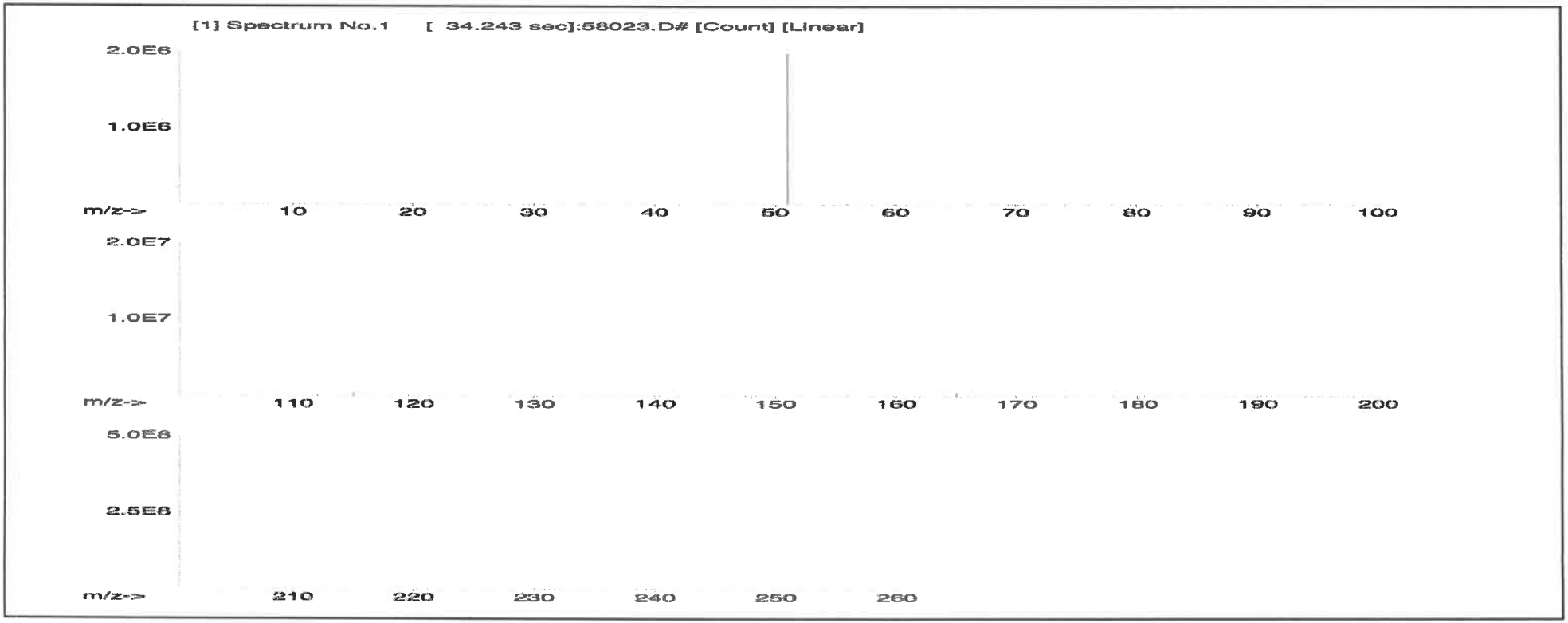
Aleah O'Brady

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



1764

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

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).
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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).

JP 01/31/2025

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166384

M200.8 Trace Elements-22

SOP ID : ~~M3050B-Digestion-20~~, MSFAM01.1-Metals ICPMS-2

SDG No : A6301

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 #5 2. N/A

Start Digest Date: 01/30/2025 **Time :** 13:25 **Temp :** 95 °C

End Digest Date: 01/30/2025 **Time :** 13:45 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. # 5

Dig Technician Signature: SLD.

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.00	MP84118
Spike Sol. B	1.00	MP84119
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	MP84041
1.4 HCL SOLN	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 #5 Cell #34 Temp: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/30/25 14:45	SLD. met dig.	SA metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166384

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166384BL	PBS384	N/A	1.00	500	Colorless	Colorless	Fine	N/A	N/A	1
PB166384BS	LCS384	N/A	1.00	500	Colorless	Colorless	Fine	N/A	MP84118	2
Q1223-01	A6301	N/A	4.33	500	Brown	Yellow	Medium	N/A	N/A	3
Q1223-02	A6302	N/A	4.06	500	Brown	Yellow	Medium	N/A	N/A	4
Q1223-03	A6303	N/A	1.18	500	Brown	Yellow	Medium	N/A	N/A	5
Q1223-04	A6304	N/A	1.25	500	Brown	Yellow	Medium	N/A	N/A	6
Q1223-05	A6305	N/A	5.97	500	Brown	Yellow	Medium	N/A	N/A	7
Q1223-06	A6305D	N/A	5.67	500	Brown	Yellow	Medium	N/A	N/A	8
Q1223-07	A6305S	N/A	5.23	500	Brown	Yellow	Medium	N/A	MP84119	9
Q1223-08	A6306	N/A	1.18	500	Brown	Yellow	Medium	N/A	N/A	10
Q1223-09	A6307	N/A	5.33	500	Brown	Yellow	Medium	N/A	N/A	11
Q1223-10	A6308	N/A	1.19	500	Brown	Yellow	Medium	N/A	N/A	12
Q1223-11	A6309	N/A	1.21	500	Brown	Yellow	Medium	N/A	N/A	13
Q1223-12	A6320	N/A	1.14	500	Brown	Yellow	Medium	N/A	N/A	14
Q1223-13	A6321	N/A	1.23	500	Brown	Yellow	Medium	N/A	N/A	15
Q1223-14	A6322	N/A	9.43	500	Brown	Yellow	Medium	N/A	N/A	16
Q1223-15	A6323	N/A	3.60	500	Brown	Yellow	Medium	N/A	N/A	17
Q1223-16	A6324	N/A	4.29	500	Brown	Yellow	Medium	N/A	N/A	18

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166570

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : YE8F8, A6301

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 02/05/2025 **Time :** 10:20 **Temp :** 96 °C

End Digest Date: 02/05/2025 **Time :** 11:10 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLR

Supervisor Signature: AR

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.50	MP84099
Spike Sol. B	0.50	MP84074
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	1.00	MP84041
1:1 HCL	0.50	MP84297
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#1 CELL#55 : 96

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/05/25 12:10	SLR. met. dig	AR Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166570

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166570BL	PBW570	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	1
PB166570BS	LCS570	<2	50	50	Colorless	Colorless	Clear	Clear	MP84099	2
Q1135-09	YE8H7	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	3
Q1223-17	A6310	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	4

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 # LB134522

Review By	Sarabjit Jaswal	Review On	2/5/2025 7:11:46 AM
Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:10 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84118
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE002	TUNE	02/02/25 13:51		Jaswal	OK
2	S00	S0	CAL1	02/02/25 14:25		Jaswal	OK
3	S02	S02	CAL3	02/02/25 14:28		Jaswal	OK
4	S03	S03	CAL4	02/02/25 14:32		Jaswal	OK
5	S04	S04	CAL5	02/02/25 14:35		Jaswal	OK
6	S05	S05	CAL6	02/02/25 14:38		Jaswal	OK
7	S06	S06	CAL7	02/02/25 14:40		Jaswal	OK
8	S07	S07	CAL8	02/02/25 14:43		Jaswal	OK
9	S08	S08	CAL9	02/02/25 14:46		Jaswal	OK
10	ICV002	ICV002	ICV	02/02/25 14:51		Jaswal	OK
11	ICB002	ICB002	ICB	02/02/25 14:55		Jaswal	OK
12	ICSA002	ICSA002	ICSA	02/02/25 15:01	Inst. paused for review	Jaswal	OK
13	ICSAB002	ICSAB002	ICSAB	02/02/25 15:04		Jaswal	OK
14	CCV011	CCV011	CCV	02/02/25 15:07		Jaswal	OK
15	CCB011	CCB011	CCB	02/02/25 15:14	Inst. paused for review	Jaswal	OK
16	PB166384BL	PBS384	MB	02/02/25 15:17		Jaswal	OK
17	PB166384BS	LCS384	LCS	02/02/25 15:20		Jaswal	OK
18	PB166471BL	PBS471	MB	02/02/25 15:24		Jaswal	OK

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Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:10 AM

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ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84118
Chk Standard	MP84057,MP84056

19	PB166471BS	LCS471	LCS	02/02/25 15:27		Jaswal	OK
20	Q1223-05	A6305	SAM	02/02/25 15:30	Cr High	Jaswal	Dilution
21	Q1223-06	A6305D	DUP	02/02/25 15:33	Cr High	Jaswal	Dilution
22	Q1223-05L	A6305L	SD	02/02/25 15:36	Cr High	Jaswal	Dilution
23	Q1223-07	A6305S	MS	02/02/25 15:39	Cr High, MS Fail For Sb(Below RL),Se(Below RL),Zn	Jaswal	Dilution
24	Q1246-09	A6342	SAM	02/02/25 15:42		Jaswal	OK
25	Q1246-10	A6342D	DUP	02/02/25 15:46		Jaswal	OK
26	Q1246-09L	A6342L	SD	02/02/25 15:49		Jaswal	OK
27	Q1246-11	A6342S	MS	02/02/25 15:52	MS Fail For Se(Below RL)	Jaswal	OK
28	Q1223-08	A6306	SAM	02/02/25 15:55	Cr High	Jaswal	Dilution
29	Q1223-09	A6307	SAM	02/02/25 15:58		Jaswal	OK
30	Q1223-10	A6308	SAM	02/02/25 16:02	Cr High	Jaswal	Dilution
31	Q1223-11	A6309	SAM	02/02/25 16:05		Jaswal	OK
32	Q1223-12	A6320	SAM	02/02/25 16:08		Jaswal	OK
33	Q1223-13	A6321	SAM	02/02/25 16:11	Cr High	Jaswal	Dilution
34	Q1223-14	A6322	SAM	02/02/25 16:14	Cr High	Jaswal	Dilution
35	Q1223-15	A6323	SAM	02/02/25 16:17	Cr High	Jaswal	Dilution
36	Q1223-16	A6324	SAM	02/02/25 16:20		Jaswal	OK
37	CCV012	CCV012	CCV	02/02/25 16:24		Jaswal	OK

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Instrument ID: P7

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STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84118
Chk Standard	MP84057,MP84056

38	CCB012	CCB012	CCB	02/02/25 16:29		Jaswal	OK
39	Q1246-01	A6313	SAM	02/02/25 16:32		Jaswal	OK
40	Q1246-02	A6314	SAM	02/02/25 16:35		Jaswal	OK
41	Q1246-03	A6325	SAM	02/02/25 16:38		Jaswal	OK
42	Q1246-04	A6326	SAM	02/02/25 16:42		Jaswal	OK
43	Q1246-05	A6331	SAM	02/02/25 16:45		Jaswal	OK
44	Q1246-06	A6332	SAM	02/02/25 16:48		Jaswal	OK
45	Q1246-07	A6333	SAM	02/02/25 16:51		Jaswal	OK
46	Q1246-08	A6334	SAM	02/02/25 16:54		Jaswal	OK
47	Q1223-01	A6301	SAM	02/02/25 16:57		Jaswal	OK
48	Q1223-02	A6302	SAM	02/02/25 17:01	Cr,Mn High	Jaswal	Dilution
49	Q1223-03	A6303	SAM	02/02/25 17:04		Jaswal	OK
50	Q1223-04	A6304	SAM	02/02/25 17:07		Jaswal	OK
51	Q1246-12	A6343	SAM	02/02/25 17:10		Jaswal	OK
52	Q1246-13	A6344	SAM	02/02/25 17:13		Jaswal	OK
53	Q1246-14	A6345	SAM	02/02/25 17:16		Jaswal	OK
54	Q1246-15	A6346	SAM	02/02/25 17:20		Jaswal	OK
55	Q1246-16	A6347	SAM	02/02/25 17:23		Jaswal	OK
56	Q1223-05DL	A6305	SAM	02/02/25 17:26	2X For Cr	Jaswal	Confirms
57	Q1223-06DL	A6305D	DUP	02/02/25 17:29	2X For Cr	Jaswal	Confirms

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Supervise By	Eman Mughal	Supervise On	2/5/2025 9:21:10 AM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84051
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	
LCS Standard	MP84118
Chk Standard	MP84057,MP84056

58	Q1223-05LDL	A6305L	SD	02/02/25 17:32	10X For Cr	Jaswal	Confirms
59	Q1223-07DL	A6305S	MS	02/02/25 17:35	2X For Cr	Jaswal	Confirms
60	Q1223-08DL	A6306	SAM	02/02/25 17:38	2X For Cr	Jaswal	Confirms
61	Q1223-10DL	A6308	SAM	02/02/25 17:42	25X For Cr	Jaswal	Confirms
62	Q1223-13DL	A6321	SAM	02/02/25 17:45	5X For Cr	Jaswal	Confirms
63	Q1223-14DL	A6322	SAM	02/02/25 17:48	5X For Cr	Jaswal	Confirms
64	Q1223-15DL	A6323	SAM	02/02/25 17:51	5X For Cr	Jaswal	Confirms
65	CCV013	CCV013	CCV	02/02/25 17:54		Jaswal	OK
66	CCB013	CCB013	CCB	02/02/25 17:57		Jaswal	OK
67	Q1223-02DL	A6302	SAM	02/02/25 18:00	2X For Cr,Mn Still Mn High	Jaswal	Dilution
68	Q1223-02DL2	A6302	SAM	02/02/25 18:04	5X For Mn	Jaswal	Confirms
69	Q1223-05A	A6305A	PS	02/02/25 18:07	PS For Sb,Se,Zn(0.01ml mp84317,0.04ml mp84318,0.0044ml m5819-10ml sample)	Jaswal	OK
70	Q1246-09A	A6342A	PS	02/02/25 18:10	PS For Se(0.01ml mp84317-10ml sample)	Jaswal	OK
71	CCV014	CCV014	CCV	02/02/25 18:13		Jaswal	OK
72	CCB014	CCB014	CCB	02/02/25 18:16		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

Review By	Sarabjit Jaswal	Review On	2/7/2025 9:21:46 AM
Supervise By	Janvi Patel	Supervise On	2/17/2025 12:45:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	02/06/25 11:25		Jaswal	OK
2	S00	S0	CAL1	02/06/25 12:08		Jaswal	OK
3	S02	S02	CAL3	02/06/25 12:12		Jaswal	OK
4	S03	S03	CAL4	02/06/25 12:15		Jaswal	OK
5	S04	S04	CAL5	02/06/25 12:18		Jaswal	OK
6	S05	S05	CAL6	02/06/25 12:21		Jaswal	OK
7	S06	S06	CAL7	02/06/25 12:24		Jaswal	OK
8	S07	S07	CAL8	02/06/25 12:27		Jaswal	OK
9	S08	S08	CAL9	02/06/25 12:29		Jaswal	OK
10	ICV001	ICV001	ICV	02/06/25 12:45	Inst. paused for Calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	02/06/25 12:50		Jaswal	OK
12	ICSA001	ICSA001	ICSA	02/06/25 12:54		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	02/06/25 12:57		Jaswal	OK
14	CCV001	CCV001	CCV	02/06/25 13:00		Jaswal	OK
15	CCB001	CCB001	CCB	02/06/25 13:07	Inst. paused for review	Jaswal	OK
16	Q1177-01A	MH2GW9A	PS	02/06/25 13:10	PS For Se-0.01ml mp84378	Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

Review By	Sarabjit Jaswal	Review On	2/7/2025 9:21:46 AM
Supervise By	Janvi Patel	Supervise On	2/17/2025 12:45:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

17	Q1178-01A	MH2GX0A	PS	02/06/25 13:14	PS For Ba-0.018 ml m6032, Cd-0.056 ml mp84379, Ni-0.0031ml m5748, Se-0.01ml mp84378	Jaswal	OK
18	PB166302BL	PBS302	MB	02/06/25 13:22		Jaswal	OK
19	PB166302BS	LCS302	LCS	02/06/25 13:26		Jaswal	OK
20	Q1159-01	YE8C9	SAM	02/06/25 13:29	Sr High in MS	Jaswal	Dilution
21	Q1159-02	YE8C9D	DUP	02/06/25 13:32	Sr High in MS	Jaswal	Dilution
22	Q1159-01L	YE8C9L	SD	02/06/25 13:35	Sr High in MS	Jaswal	Dilution
23	Q1159-03	YE8C9S	MS	02/06/25 13:39	Sr High , MS Fail in Se Below RI)	Jaswal	Dilution
24	PB166317BL	PBW317	MB	02/06/25 13:42	Not Use	Jaswal	Not Ok
25	PB166317BS	LCS317	LCS	02/06/25 13:45	Not Use	Jaswal	Not Ok
26	Q1186-01	ME2948	SAM	02/06/25 13:48	Not Use	Jaswal	Not Ok
27	Q1186-02	ME2949	SAM	02/06/25 13:52		Jaswal	OK
28	Q1186-03	ME2955	SAM	02/06/25 13:55		Jaswal	OK
29	Q1186-04	ME2956	SAM	02/06/25 13:58		Jaswal	OK
30	Q1186-05	ME2957	SAM	02/06/25 14:01		Jaswal	OK
31	Q1186-06	ME2960	SAM	02/06/25 14:05		Jaswal	OK
32	Q1186-07	ME2961	SAM	02/06/25 14:08		Jaswal	OK
33	Q1186-08	ME2962	SAM	02/06/25 14:11		Jaswal	OK
34	Q1186-09	ME2959	SAM	02/06/25 14:14		Jaswal	OK

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Supervise By	Janvi Patel	Supervise On	2/17/2025 12:45:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

35	Q1186-10	ME2959D	DUP	02/06/25 14:18		Jaswal	OK
36	Q1186-09L	ME2959L	SD	02/06/25 14:21		Jaswal	OK
37	Q1186-11	ME2959S	MS	02/06/25 14:24		Jaswal	OK
38	Q1186-12	ME2963	SAM	02/06/25 14:28		Jaswal	OK
39	Q1186-13	ME2967	SAM	02/06/25 14:31		Jaswal	OK
40	Q1186-14	ME2965	SAM	02/06/25 14:34		Jaswal	OK
41	CCV002	CCV002	CCV	02/06/25 14:37		Jaswal	OK
42	CCB002	CCB002	CCB	02/06/25 14:40		Jaswal	OK
43	Q1186-15	ME2966	SAM	02/06/25 14:44		Jaswal	OK
44	Q1186-16	ME2958	SAM	02/06/25 14:47		Jaswal	OK
45	Q1186-17	ME2968	SAM	02/06/25 14:50		Jaswal	OK
46	Q1186-18	ME2974	SAM	02/06/25 14:53		Jaswal	OK
47	Q1186-19	ME2977	SAM	02/06/25 14:57		Jaswal	OK
48	Q1186-20	ME2980	SAM	02/06/25 15:00		Jaswal	OK
49	Q1186-09RE	ME2959	SAM	02/06/25 15:03	Not Use	Jaswal	Not Ok
50	Q1186-10RE	ME2959D	DUP	02/06/25 15:06	Not Use	Jaswal	Not Ok
51	Q1186-09LRE	ME2959L	SD	02/06/25 15:10	Not Use	Jaswal	Not Ok
52	Q1186-11RE	ME2959S	MS	02/06/25 15:13	Not Use	Jaswal	Not Ok
53	PB166435BL	PBW435	MB	02/06/25 15:16		Jaswal	OK
54	PB166435BS	LCS435	LCS	02/06/25 15:24		Jaswal	OK

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STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

55	Q1200-01	ME2964	SAM	02/06/25 15:28		Jaswal	OK
56	Q1200-02	ME2964D	DUP	02/06/25 15:32		Jaswal	OK
57	Q1200-01L	ME2964L	SD	02/06/25 15:35		Jaswal	OK
58	Q1200-03	ME2964S	MS	02/06/25 15:38		Jaswal	OK
59	Q1200-04	ME2981	SAM	02/06/25 15:41		Jaswal	OK
60	Q1200-05	ME2982	SAM	02/06/25 15:44		Jaswal	OK
61	Q1200-06	ME2983	SAM	02/06/25 15:48		Jaswal	OK
62	Q1200-07	ME2984	SAM	02/06/25 15:51		Jaswal	OK
63	Q1200-08	ME2985	SAM	02/06/25 15:54		Jaswal	OK
64	Q1200-09	ME2986	SAM	02/06/25 15:57		Jaswal	OK
65	Q1200-10	ME2987	SAM	02/06/25 16:01		Jaswal	OK
66	Q1200-11	ME2988	SAM	02/06/25 16:04		Jaswal	OK
67	Q1200-12	ME2992	SAM	02/06/25 16:07		Jaswal	OK
68	Q1200-13	ME2994	SAM	02/06/25 16:10		Jaswal	OK
69	Q1200-14	ME2995	SAM	02/06/25 16:13		Jaswal	OK
70	CCV003	CCV003	CCV	02/06/25 16:17		Jaswal	OK
71	CCB003	CCB003	CCB	02/06/25 16:19		Jaswal	OK
72	Q1200-15	ME2999	SAM	02/06/25 16:23		Jaswal	OK
73	Q1200-16	ME2997	SAM	02/06/25 16:26		Jaswal	OK
74	Q1200-17	ME2998	SAM	02/06/25 16:29		Jaswal	OK

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ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

75	Q1200-18	ME29A0	SAM	02/06/25 16:33		Jaswal	OK
76	Q1200-19	ME29A1	SAM	02/06/25 16:36		Jaswal	OK
77	Q1200-20	ME29A2	SAM	02/06/25 16:39		Jaswal	OK
78	Q1200-21	ME29A3	SAM	02/06/25 16:42		Jaswal	OK
79	WATER-01	WATER-01	SAM	02/06/25 16:46		Jaswal	OK
80	WATER-02RE	WATER-02RE	SAM	02/06/25 16:49	Not Use	Jaswal	Not Ok
81	WATER-02	WATER-02	SAM	02/06/25 16:52		Jaswal	OK
82	CCV004	CCV004	CCV	02/06/25 16:55		Jaswal	OK
83	CCB004	CCB004	CCB	02/06/25 17:02	Inst. paused for review	Jaswal	OK
84	PB166532BL	PBS532	MB	02/06/25 17:12	Not Use	Jaswal	Not Ok
85	PB166532BS	LCS532	LCS	02/06/25 17:15	Not Use	Jaswal	Not Ok
86	Q1271-03	3189-3196	SAM	02/06/25 17:18	Not Use	Jaswal	Not Ok
87	Q1271-03DUP	3189-3196	DUP	02/06/25 17:21	Not Use	Jaswal	Not Ok
88	Q1271-03L	3189-3196L	SD	02/06/25 17:25	Not Use	Jaswal	Not Ok
89	Q1271-03MS	3189-3196	MS	02/06/25 17:28	Not Use	Jaswal	Not Ok
90	Q1271-03MSD	3189-3196	MSD	02/06/25 17:31	Not Use	Jaswal	Not Ok
91	Q1271-03A	3189-3196A	PS	02/06/25 17:34	Not Use	Jaswal	Not Ok
92	CCV005	CCV005	CCV	02/06/25 17:39		Jaswal	OK
93	CCB005	CCB005	CCB	02/06/25 17:42		Jaswal	OK
94	PB166282BL	PBW282	MB	02/06/25 17:45	Not Use	Jaswal	Not Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

Review By	Sarabjit Jaswal	Review On	2/7/2025 9:21:46 AM
Supervise By	Janvi Patel	Supervise On	2/17/2025 12:45:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

95	PB166282BS	LCS282	LCS	02/06/25 17:49	Not Use	Jaswal	Not Ok
96	Q1193-01	TAPIAL3-MW04S-012	SAM	02/06/25 17:53	Not Use	Jaswal	Not Ok
97	Q1193-02	TAPIAL2-MW01-0124	SAM	02/06/25 17:56	Not Use	Jaswal	Not Ok
98	Q1193-02DUP	TAPIAL2-MW01-0124	DUP	02/06/25 17:59	Not Use	Jaswal	Not Ok
99	Q1193-02L	TAPIAL2-MW01-0124	SD	02/06/25 18:02	Not Use	Jaswal	Not Ok
100	Q1193-02MS	TAPIAL2-MW01-0124	MS	02/06/25 18:06	Not Use	Jaswal	Not Ok
101	Q1193-02MSD	TAPIAL2-MW01-0124	MSD	02/06/25 18:08	Not Use	Jaswal	Not Ok
102	Q1193-02A	TAPIAL2-MW01-0124	PS	02/06/25 18:11	Not Use	Jaswal	Not Ok
103	CCV006	CCV006	CCV	02/06/25 18:14		Jaswal	OK
104	CCB006	CCB006	CCB	02/06/25 18:18		Jaswal	OK
105	PB166378BL	PBW378	MB	02/06/25 18:21	Not Use	Jaswal	Not Ok
106	PB166378BS	LCS378	LCS	02/06/25 18:25	Not Use	Jaswal	Not Ok
107	Q1201-01	TAPHHA-MW12-0127	SAM	02/06/25 18:28	Not Use	Jaswal	Not Ok
108	Q1211-01	TAPHHA-MW01-0128	SAM	02/06/25 18:31	Not Use	Jaswal	Not Ok
109	Q1211-02	TAPIAL2-MW03-0128	SAM	02/06/25 18:34	Not Use	Jaswal	Not Ok
110	Q1211-02DUP	TAPIAL2-MW03-0128	DUP	02/06/25 18:37	Not Use	Jaswal	Not Ok
111	Q1211-02L	TAPIAL2-MW03-0128	SD	02/06/25 18:40	Not Use	Jaswal	Not Ok
112	Q1211-02MS	TAPIAL2-MW03-0128	MS	02/06/25 18:44	Not Use	Jaswal	Not Ok
113	Q1211-02MSD	TAPIAL2-MW03-0128	MSD	02/06/25 18:46	Not Use	Jaswal	Not Ok
114	Q1211-02A	TAPIAL2-MW03-0128	PS	02/06/25 18:49	Not Use	Jaswal	Not Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134612

Review By	Sarabjit Jaswal	Review On	2/7/2025 9:21:46 AM
Supervise By	Janvi Patel	Supervise On	2/17/2025 12:45:24 PM

STD. NAME	STD REF.#
ICAL Standard	MP84042,MP84050,MP84049,MP84047,MP84046,MP84045,MP84044,MP84043,MP84073
ICV Standard	MP84473
CCV Standard	MP84052
ICSA Standard	MP84053,MP84054
CRI Standard	MP84493,MP84378
LCS Standard	MP84465
Chk Standard	MP84057,MP84056

115	CCV007	CCV007	CCV	02/06/25 18:52		Jaswal	OK
116	CCB007	CCB007	CCB	02/06/25 18:58	Inst. paused for review	Jaswal	OK
117	Q1159-01A	YE8C9A	PS	02/06/25 19:55	PS For Se(0.01ML MP84378)	Jaswal	OK
118	Q1186-09A	ME2959A	PS	02/06/25 19:58	PS For Se(0.01ML MP84378-10ML SAMPLE)	Jaswal	OK
119	Q1200-01A	ME2964A	PS	02/06/25 20:01	PS For Se(0.01ML MP84378-10ML SAMPLE) and Sb(0.04ml of MP84493 in 10ml sample)	Jaswal	OK
120	PB166570BL	PBW570	MB	02/06/25 20:04		Jaswal	OK
121	PB166570BS	LCS570	LCS	02/06/25 20:08		Jaswal	OK
122	Q1135-09	YE8H7	SAM	02/06/25 20:11	Not Use	Jaswal	Not Ok
123	Q1223-17	A6310	SAM	02/06/25 20:14		Jaswal	OK
124	CCV008	CCV008	CCV	02/06/25 20:22		Jaswal	OK
125	CCB008	CCB008	CCB	02/06/25 20:25		Jaswal	OK

EPA SAMPLE NO.

A6301

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-01

% Solids: 26.4 Date Received: 01/30/2025

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	0.22		01/31/2025	1711

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

Comments:

EPA SAMPLE NO.

A6302

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-02

% Solids: 23.8 Date Received: 01/30/2025

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	0.16		01/31/2025	1714

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

Comments:

EPA SAMPLE NO.

A6303

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-03

% Solids: 52.2 Date Received: 01/30/2025

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	0.071	J	01/31/2025	1716

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

Comments:

EPA SAMPLE NO.

A6304

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-04

% Solids: 50.8 Date Received: 01/30/2025

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	0.083	J	01/31/2025	1718

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

Comments:

EPA SAMPLE NO.

A6305

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-05

% Solids: 24.3 Date Received: 01/30/2025

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	0.16		01/31/2025	1721

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

Comments:

EPA SAMPLE NO.

A6306

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-08

% Solids: 69 Date Received: 01/30/2025

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	J	01/31/2025	1727

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

Comments:

EPA SAMPLE NO.

A6307

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-09

% Solids: 24.7 Date Received: 01/30/2025

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	0.23		01/31/2025	1730

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

Comments:

EPA SAMPLE NO.

A6308

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-10

% Solids: 44.2 Date Received: 01/30/2025

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	0.75		01/31/2025	1732

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

Comments:

EPA SAMPLE NO.

A6309

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-11

% Solids: 64.9 Date Received: 01/30/2025

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	0.026	J	01/31/2025	1734

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

Comments:

EPA SAMPLE NO.

A6310

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: Water Lab Sample ID: Q1223-17

% Solids: Date Received: 01/30/2025

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	02/18/2025	1509

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

Comments:

EPA SAMPLE NO.

A6320

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-12

% Solids: 84 Date Received: 01/30/2025

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	0.032	J	01/31/2025	1736

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

Comments:

EPA SAMPLE NO.

A6321

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-13

% Solids: 47.9 Date Received: 01/30/2025

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	0.12	J	01/31/2025	1739

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

Comments:

EPA SAMPLE NO.

A6322

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-14

% Solids: 12.9 Date Received: 01/30/2025

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	0.17		01/31/2025	1741

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

Comments:

EPA SAMPLE NO.

A6323

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-15

% Solids: 28.3 Date Received: 01/30/2025

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	0.19		01/31/2025	1743

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

Comments:

EPA SAMPLE NO.

A6324

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51952 MA No. : SDG No.: A6301

Matrix: SOIL Lab Sample ID: Q1223-16

% Solids: 25.5 Date Received: 01/30/2025

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	0.16		01/31/2025	1745

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

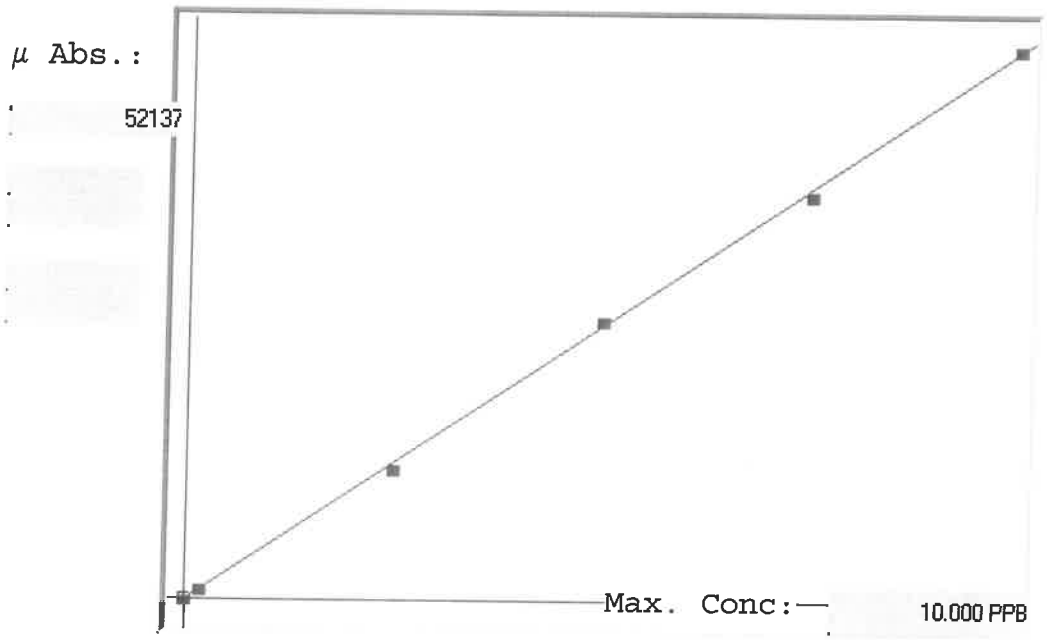
Comments:

Reviewed By:kareem
On:2/19/2025 12:08:33 PM
Inst Id :CV1

LB134514

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 1.9235e-004 slope

C= 1.6048e-002 y-intercept

Rho= 0.9997877

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%D
0.00	0.000	0.050	0.050	174	0.000	174					1
0.05	0.050										3
0.20	0.200	0.205	0.005	982	0.0 %	982					-4
2.50	2.500	2.397	-0.103	12380	0.0 %	12380					2
5.00	5.000	5.101	0.101	26435	0.0 %	26435					-1
7.50	7.500	7.403	-0.097	38401	0.0 %	38401					0
10.0	10.000	10.045	0.045	52137	0.0 %	52137					

Reviewed By:kareem
On:2/19/2025 12:08:33 PM
Inst Id :CV1

LB134514
INSTRUMENT ID: CV1

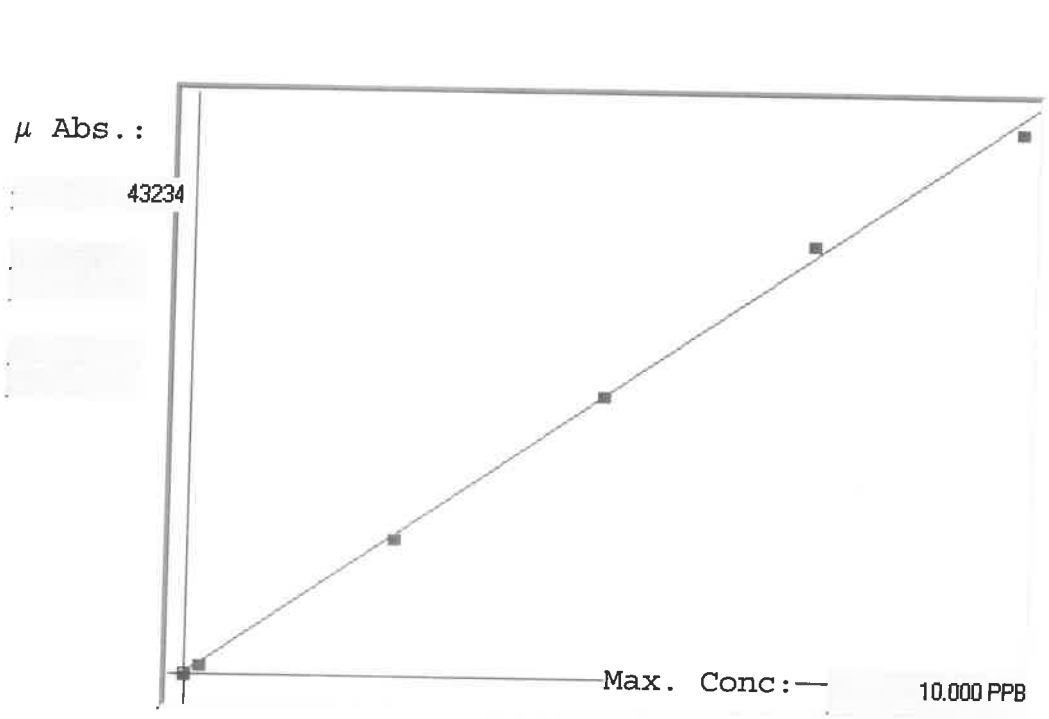
Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0	174	-		0	SFAM01.1	PPB	01/31/2025 16:43	Std
0.2	S01	982	-		0.2	SFAM01.1	PPB	01/31/2025 16:46	Std
2.5	S02	12380	-		2.5	SFAM01.1	PPB	01/31/2025 16:48	Std
5	S03	26435	-		5	SFAM01.1	PPB	01/31/2025 16:50	Std
7.5	S04	38401	-		7.5	SFAM01.1	PPB	01/31/2025 16:52	Std
10	S05	52137	-		10	SFAM01.1	PPB	01/31/2025 16:55	Std
ICV078	ICV078	23075	4.4546	-		SFAM01.1	PPB	01/31/2025 17:00	SMPL
ICB078	ICB078	41	0.0239	-		SFAM01.1	PPB	01/31/2025 17:02	SMPL
CCV001	CCV001	25946	5.0068	-		SFAM01.1	PPB	01/31/2025 17:05	SMPL
CCB001	CCB001	1	0.0162	-		SFAM01.1	PPB	01/31/2025 17:07	SMPL
Q1223-01	A6301	5958	1.1621	-		SFAM01.1	PPB	01/31/2025 17:11	SMPL
Q1223-02	A6302	3948	0.7755	-		SFAM01.1	PPB	01/31/2025 17:14	SMPL
Q1223-03	A6303	955	0.1997	-		SFAM01.1	PPB	01/31/2025 17:16	SMPL
Q1223-04	A6304	1164	0.2399	-		SFAM01.1	PPB	01/31/2025 17:18	SMPL
Q1223-05	A6305	4331	0.8491	-		SFAM01.1	PPB	01/31/2025 17:21	SMPL
Q1223-06	A6305D	3979	0.7814	-		SFAM01.1	PPB	01/31/2025 17:23	SMPL
Q1223-07	A6305S	15712	3.0383	-		SFAM01.1	PPB	01/31/2025 17:25	SMPL
Q1223-08	A6306	1883	0.3782	-		SFAM01.1	PPB	01/31/2025 17:27	SMPL
Q1223-09	A6307	6207	1.21	-		SFAM01.1	PPB	01/31/2025 17:30	SMPL
Q1223-10	A6308	8899	1.7278	-		SFAM01.1	PPB	01/31/2025 17:32	SMPL
Q1223-11	A6309	353	0.0839	-		SFAM01.1	PPB	01/31/2025 17:34	SMPL
Q1223-12	A6320	609	0.1332	-		SFAM01.1	PPB	01/31/2025 17:36	SMPL
Q1223-13	A6321	1511	0.3067	-		SFAM01.1	PPB	01/31/2025 17:39	SMPL
Q1223-14	A6322	4503	0.8822	-		SFAM01.1	PPB	01/31/2025 17:41	SMPL
Q1223-15	A6323	5339	1.043	-		SFAM01.1	PPB	01/31/2025 17:43	SMPL
Q1223-16	A6324	4214	0.8266	-		SFAM01.1	PPB	01/31/2025 17:45	SMPL
PB166456BL	PBS456	12	0.0184	-		SFAM01.1	PPB	01/31/2025 17:48	SMPL
CCV002	CCV002	25435	4.9085	-		SFAM01.1	PPB	01/31/2025 17:50	SMPL
CCB002	CCB002	-4	0.0153	-		SFAM01.1	PPB	01/31/2025 17:52	SMPL

Reviewed By:JANVI
On:2/19/2025 11:18:00 AM
Inst Id :CV1

LB134741

SFAM01.1

INSTRUMENT ID: CV1



A= 0.0000e+000

B= 2.2697e-004 slope

C= -1.1753e-002 = intercept

Rho= 0.9993782

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	% D
0.00	0.000	-0.023	-0.023	-49	0.000	-49					=
0.05	0.050										-16
0.20	0.200	0.181	-0.019	848	0.0 %	848					-1
2.50	2.500	2.469	-0.031	10930	0.0 %	10930					1
5.00	5.000	5.029	0.029	22207	0.0 %	22207					3
7.50	7.500	7.744	0.244	34169	0.0 %	34169					-2
10.0	10.000	9.801	-0.199	43234	0.0 %	43234					

Reviewed By:JANVI
On:2/19/2025 11:18:00 AM
Inst Id :CV1

LB134741

INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0	-49	-		0	SFAM01.1	PPB	2/18/2025 13:48	Std
0.2	S01	848	-		0.2	SFAM01.1	PPB	2/18/2025 13:50	Std
2.5	S02	10930	-		2.5	SFAM01.1	PPB	2/18/2025 13:53	Std
5	S03	22207	-		5	SFAM01.1	PPB	2/18/2025 13:55	Std
7.5	S04	34169	-		7.5	SFAM01.1	PPB	2/18/2025 13:57	Std
10	S05	43234	-		10	SFAM01.1	PPB	2/18/2025 14:02	Std
ICV008	ICV008	16141	3.6518	-		SFAM01.1	PPB	2/18/2025 14:06	SMPL
ICB008	ICB008	-342	-0.0894	-		SFAM01.1	PPB	2/18/2025 14:08	SMPL
CCV081	CCV081	22369	5.0653	-		SFAM01.1	PPB	2/18/2025 14:10	SMPL
CCB081	CCB081	-329	-0.0864	-		SFAM01.1	PPB	2/18/2025 14:13	SMPL
PB166766BL	PBW766	-40	-0.0208	-		SFAM01.1	PPB	2/18/2025 14:15	SMPL
Q1200-01	ME2964	-20	-0.0163	-		SFAM01.1	PPB	2/18/2025 14:17	SMPL
Q1200-02	ME2964D	-65	-0.0265	-		SFAM01.1	PPB	2/18/2025 14:19	SMPL
Q1200-03	ME2964S	4648	1.0432	-		SFAM01.1	PPB	2/18/2025 14:22	SMPL
Q1200-04	ME2981	-155	-0.0469	-		SFAM01.1	PPB	2/18/2025 14:24	SMPL
Q1200-05	ME2982	-92	-0.0326	-		SFAM01.1	PPB	2/18/2025 14:26	SMPL
Q1200-06	ME2983	-66	-0.0267	-		SFAM01.1	PPB	2/18/2025 14:28	SMPL
Q1200-07	ME2984	-92	-0.0326	-		SFAM01.1	PPB	2/18/2025 14:31	SMPL
Q1200-08	ME2985	-94	-0.0331	-		SFAM01.1	PPB	2/18/2025 14:33	SMPL
Q1200-09	ME2986	-35	-0.0197	-		SFAM01.1	PPB	2/18/2025 14:35	SMPL
Q1200-10	ME2987	-246	-0.0676	-		SFAM01.1	PPB	2/18/2025 14:38	SMPL
Q1200-11	ME2988	5	-0.0106	-		SFAM01.1	PPB	2/18/2025 14:40	SMPL
Q1200-12	ME2992	29	-0.0052	-		SFAM01.1	PPB	2/18/2025 14:42	SMPL
Q1200-13	ME2994	-55	-0.0242	-		SFAM01.1	PPB	2/18/2025 14:44	SMPL
Q1200-14	ME2995	-49	-0.0229	-		SFAM01.1	PPB	2/18/2025 14:47	SMPL
Q1200-15	ME2999	-16	-0.0154	-		SFAM01.1	PPB	2/18/2025 14:49	SMPL
Q1200-16	ME2997	-54	-0.024	-		SFAM01.1	PPB	2/18/2025 14:51	SMPL
Q1200-17	ME2998	-25	-0.0174	-		SFAM01.1	PPB	2/18/2025 14:53	SMPL
Q1200-18	ME29A0	-43	-0.0215	-		SFAM01.1	PPB	2/18/2025 14:56	SMPL
Q1200-19	ME29A1	2	-0.0113	-		SFAM01.1	PPB	2/18/2025 14:58	SMPL
CCV082	CCV082	22378	5.0674	-		SFAM01.1	PPB	2/18/2025 15:00	SMPL
CCB082	CCB082	-255	-0.0696	-		SFAM01.1	PPB	2/18/2025 15:03	SMPL
Q1200-20	ME29A2	0	-0.0118	-		SFAM01.1	PPB	2/18/2025 15:05	SMPL
Q1200-21	ME29A3	-10	-0.014	-		SFAM01.1	PPB	2/18/2025 15:07	SMPL
Q1223-17	A6310	-70	-0.0276	-		SFAM01.1	PPB	2/18/2025 15:09	SMPL
PB166767BL	PBW767	330	0.0631	-		SFAM01.1	PPB	2/18/2025 15:12	SMPL
Q1204-01	ME2975	305	0.0575	-		SFAM01.1	PPB	2/18/2025 15:14	SMPL
Q1204-02	ME2975D	264	0.0482	-		SFAM01.1	PPB	2/18/2025 15:16	SMPL
Q1204-03	ME2975S	5854	1.3169	-		SFAM01.1	PPB	2/18/2025 15:18	SMPL
Q1204-04	ME2978	324	0.0618	-		SFAM01.1	PPB	2/18/2025 15:21	SMPL
Q1204-05	ME2979	470	0.0949	-		SFAM01.1	PPB	2/18/2025 15:23	SMPL
Q1204-06	ME2989	519	0.106	-		SFAM01.1	PPB	2/18/2025 15:25	SMPL
Q1204-07	ME2991	481	0.0974	-		SFAM01.1	PPB	2/18/2025 15:28	SMPL
Q1204-08	ME2996	4700	1.055	-		SFAM01.1	PPB	2/18/2025 15:30	SMPL
Q1204-09	ME29A4	70	0.0041	-		SFAM01.1	PPB	2/18/2025 15:32	SMPL
Q1204-10	ME29A5	484	0.0981	-		SFAM01.1	PPB	2/18/2025 15:34	SMPL

Reviewed By:JANVI
On:2/19/2025 11:18:00 AM
Inst Id :CV1

LB134741

INSTRUMENT ID : CV1

Q1204-11	ME29A7	329	0.0629	-	SFAM01.1	PPB	2/18/2025 15:37	SMPL
Q1204-12	ME29A8	290	0.0541	-	SFAM01.1	PPB	2/18/2025 15:39	SMPL
Q1204-13	ME29B0	379	0.0743	-	SFAM01.1	PPB	2/18/2025 15:41	SMPL
Q1204-14	ME29B1	413	0.082	-	SFAM01.1	PPB	2/18/2025 15:44	SMPL
Q1204-15	ME29A9	337	0.0647	-	SFAM01.1	PPB	2/18/2025 15:46	SMPL
Q1204-16	ME29B2	340	0.0654	-	SFAM01.1	PPB	2/18/2025 15:48	SMPL
CCV083	CCV083	21566	4.8831	-	SFAM01.1	PPB	2/18/2025 15:50	SMPL
CCB083	CCB083	-238	-0.0658	-	SFAM01.1	PPB	2/18/2025 15:53	SMPL
Q1204-17	ME29B3	320	0.0609	-	SFAM01.1	PPB	2/18/2025 15:55	SMPL
Q1204-18	ME29B4	293	0.0547	-	SFAM01.1	PPB	2/18/2025 15:57	SMPL
Q1204-19	ME29B5	355	0.0688	-	SFAM01.1	PPB	2/18/2025 15:59	SMPL
Q1204-20	ME29B8	317	0.0602	-	SFAM01.1	PPB	2/18/2025 16:02	SMPL
Q1204-21	ME29B9	360	0.07	-	SFAM01.1	PPB	2/18/2025 16:04	SMPL
Q1204-22	ME29C0	366	0.0713	-	SFAM01.1	PPB	2/18/2025 16:06	SMPL
CCV084	CCV084	21765	4.9282	-	SFAM01.1	PPB	2/18/2025 16:09	SMPL
CCB084	CCB084	-283	-0.076	-	SFAM01.1	PPB	2/18/2025 16:11	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : Q1223

Test : Mercury

Prepbatch ID : PB166456,PB166766,

Sequence ID/Qc Batch ID: LB134514,LB134741,

Standard ID :
MP83692,MP83694,MP84298,MP84299,MP84300,MP84301,MP84302,MP84303,MP84304,MP84305,MP84306,MP84307,MP84312,MP84313,MP84547,MP84548,MP84549,MP84550,MP84551,MP84552,MP84553,MP84554,MP84555,MP84556,MP84557,MP84561,MP84563,MP84564,MP84565,MP84566,

Chemical ID :
M4371,M4465,M4916,M5062,M5532,M5882,M5884,M6041,M6121,M6126,MP84309,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP83692	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

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	MP83694	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/18/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84298	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84299	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 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
1341	Hg 0.2 PPB STD	MP84300	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84301	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84298 = 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
1343	Hg 5.0 PPB STD	MP84302	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84303	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84298 = 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
1345	Hg 10.0 PPB STD	MP84304	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84298 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84305	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml 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
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84306	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84307	01/31/2025	02/01/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 02/04/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84298 = 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	MP84312	01/31/2025	02/01/2025	Mohan Bera	None	None	Sarabjit Jaswal 02/04/2025

FROM 150.00000ml of M6121 + 50.00000ml of M6126 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84313	01/31/2025	02/01/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 02/04/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = 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
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP84547	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1340	Hg 0.00 PPB STD	MP84548	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 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
1341	Hg 0.2 PPB STD	MP84549	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84547 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1342	Hg 2.5 PPB STD	MP84550	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84547 = 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
1343	Hg 5.0 PPB STD	MP84551	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84547 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1344	Hg 7.5 PPB STD	MP84552	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84547 = 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
1345	Hg 10.0 PPB STD	MP84553	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84547 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84554	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M5532 + 2.50000ml of M6126 + 245.00000ml 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
1351	ICB (Hg 0.00 PPB SOLUTION)	MP84555	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP84556	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Janvi Patel 02/19/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84547 = 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
1352	CCB (Hg 0.00 PPB SOLUTION)	MP84557	02/18/2025	02/19/2025	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Janvi Patel 02/19/2025

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
68	STANNOUS CHLORIDE SOLUTION	MP84561	02/18/2025	02/19/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = 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
3965	2:1 H2SO4 : HNO3	MP84563	02/18/2025	06/03/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP84564	02/18/2025	08/18/2025	Mohan Bera	None	None	Janvi Patel 02/19/2025

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = 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
66	POTASSIUM PERSULFATE SOLUTION 5 %	MP84565	02/18/2025	08/06/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 100.00000ml of M4465 + 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	MP84566	02/18/2025	06/25/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Janvi Patel 02/19/2025

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = 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 #
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-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / mohan	07/25/2019 / manojkumar	M4465

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 #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 / mohan	03/30/2023 / mohan	M5532

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

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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-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

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	08/16/2024 / mohan	08/16/2024 / mohan	M6041

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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

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)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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

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

1819

ThermoFisher SCIENTIFIC

M4913-1b

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

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	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.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/4}$$

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

1821

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 HNO3. 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% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); 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

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

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.

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

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MT884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

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 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

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 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

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

1829

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

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
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
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

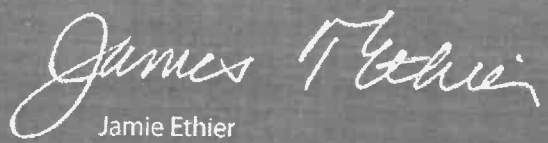
1830

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg 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

1831

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
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	2.3 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	100 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.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166456

SOP ID : M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2

SDG No : A6301

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: 01/31/2025 **Time :** 11:50 **Temp :** 95 °C

End Digest Date: 01/31/2025 **Time :** 12:20 **Temp :** 94 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#1

Dig Technician Signature: MR

Supervisor Signature: JZ

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP84305
CCV	100mL	MP84307
Matrix Spike	1.0mL	MP84298
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP84312
KMnO4 (5%)	15.0mL	MP83692
Hydroxylamine HCL (12%)	6.0mL	MP83694
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	MP84299
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP84300
2.5 ppb	S2.5	100mL	MP84301
5.0 ppb	S5.0	100mL	MP84302
7.5 ppb	S7.5	100mL	MP84303
10.0 ppb	S10.0	100mL	MP84304
ICV	ICV	100mL	MP84305
ICB	ICB	100mL	MP84306
CCV	CCV	100mL	MP84307
CCB	CCB	100mL	MP84308
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
MR 1/31/25 @ 13:45	MR - Dig. Lab	MR - General Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166456

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166456BL	PBS456	0.50	100	NA	N/A	1-1
Q1223-01	A6301	2.03	100	NA	N/A	2
Q1223-02	A6302	2.05	100	NA	N/A	3
Q1223-03	A6303	0.54	100	NA	N/A	4
Q1223-04	A6304	0.57	100	NA	N/A	5
Q1223-05	A6305	2.14	100	NA	N/A	6
Q1223-06	A6305D	2.07	100	NA	N/A	7
Q1223-07	A6305S	2.34	100	NA	MP84298	8
Q1223-08	A6306	0.56	100	NA	N/A	9
Q1223-09	A6307	2.15	100	NA	N/A	10
Q1223-10	A6308	0.52	100	NA	N/A	11
Q1223-11	A6309	0.50	100	NA	N/A	12
Q1223-12	A6320	0.50	100	NA	N/A	13
Q1223-13	A6321	0.55	100	NA	N/A	14
Q1223-14	A6322	3.95	100	NA	N/A	15
Q1223-15	A6323	1.92	100	NA	N/A	16
Q1223-16	A6324	1.98	100	NA	N/A	17

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166766

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : ME2964/A6301 **Start Digest Date:** 02/18/2025 **Time :** 10:40 **Temp :** 94 °C

Matrix : WATER **End Digest Date:** 02/18/2025 **Time :** 12:40 **Temp :** 95 °C

Pippete ID: HG A **Digestion tube ID:** M6054

Balance ID : N/A **Block thermometer ID:** HG-DIG#1

Filter paper ID : NA **Dig Technician Signature:** MB

pH Strip ID : M6069 **Supervisor Signature:** [illegible]

Hood ID : #1 **Temp :** **1.** 94°C **2.** N/A

Block ID: **1.** HG HOT BLOCK#1 **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP84554
CCV	100mL	MP84556
Matrix Spike	0.40mL	MP84547
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	7.5mL	MP84563
KMnO4 (5%)	15.0mL	MP84564
K2S2O8 (5%)	8.0mL	MP84565
Hydroxylamine HCL (12%)	6.0mL	MP84566
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	MP84548
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP84549
2.5 ppb	S2.5	100mL	MP84550
5.0 ppb	S5.0	100mL	MP84551
7.5 ppb	S7.5	100mL	MP84552
10.0 ppb	S10.0	100mL	MP84553
ICV	ICV	100mL	MP84554
ICB	ICB	100mL	MP84555
CCV	CCV	100mL	MP84556
CCB	CCB	100mL	MP84557
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
2/18/25 13:05	MB- Dig. Lab	MB- metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166766

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166766BL	PBW766	100	100	<2	N/A	1-1
Q1200-01	ME2964	100	100	<2	N/A	2
Q1200-02	ME2964D	100	100	<2	N/A	3
Q1200-03	ME2964S	100	100	<2	N/A	4
Q1200-04	ME2981	100	100	<2	N/A	5
Q1200-05	ME2982	100	100	<2	N/A	6
Q1200-06	ME2983	100	100	<2	N/A	7
Q1200-07	ME2984	100	100	<2	N/A	8
Q1200-08	ME2985	100	100	<2	N/A	9
Q1200-09	ME2986	100	100	<2	N/A	10
Q1200-10	ME2987	100	100	<2	N/A	11
Q1200-11	ME2988	100	100	<2	N/A	12
Q1200-12	ME2992	100	100	<2	N/A	13
Q1200-13	ME2994	100	100	<2	N/A	14
Q1200-14	ME2995	100	100	<2	N/A	15
Q1200-15	ME2999	100	100	<2	N/A	16
Q1200-16	ME2997	100	100	<2	N/A	17
Q1200-17	ME2998	100	100	<2	N/A	18
Q1200-18	ME29A0	100	100	<2	N/A	19
Q1200-19	ME29A1	100	100	<2	N/A	20
Q1200-20	ME29A2	100	100	<2	N/A	21
Q1200-21	ME29A3	100	100	<2	N/A	22
Q1223-17	A6310	100	100	<2	N/A	23

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 # LB134514

Review By	Sarabjit Jaswal	Review On	2/3/2025 8:20:55 PM
Supervise By	Kareem Khairalla	Supervise On	2/19/2025 12:08:33 PM

STD. NAME	STD REF.#
ICAL Standard	MP84299,MP84300,MP84301,MP84302,MP84303,MP84304
ICV Standard	MP84305
CCV Standard	MP84307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84306, MP84309,MP84313

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	01/31/25 16:43		Mohan	OK
2	S0.2	S01	CAL2	01/31/25 16:46		Mohan	OK
3	S2.5	S02	CAL3	01/31/25 16:48		Mohan	OK
4	S5	S05	CAL4	01/31/25 16:50		Mohan	OK
5	S7.5	S04	CAL5	01/31/25 16:52		Mohan	OK
6	S10	S05	CAL6	01/31/25 16:55		Mohan	OK
7	ICV078	ICV078	ICV	01/31/25 17:00		Mohan	OK
8	ICB078	ICB078	ICB	01/31/25 17:02		Mohan	OK
9	CCV001	CCV001	CCV	01/31/25 17:05		Mohan	OK
10	CCB001	CCB001	CCB	01/31/25 17:07		Mohan	OK
11	Q1223-01	A6301	SAM	01/31/25 17:11		Mohan	OK
12	Q1223-02	A6302	SAM	01/31/25 17:14		Mohan	OK
13	Q1223-03	A6303	SAM	01/31/25 17:16		Mohan	OK
14	Q1223-04	A6304	SAM	01/31/25 17:18		Mohan	OK
15	Q1223-05	A6305	SAM	01/31/25 17:21		Mohan	OK
16	Q1223-06	A6305D	DUP	01/31/25 17:23		Mohan	OK
17	Q1223-07	A6305S	MS	01/31/25 17:25		Mohan	OK
18	Q1223-08	A6306	SAM	01/31/25 17:27		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 # LB134514

Review By	Sarabjit Jaswal	Review On	2/3/2025 8:20:55 PM
Supervise By	Kareem Khairalla	Supervise On	2/19/2025 12:08:33 PM

STD. NAME	STD REF.#
ICAL Standard	MP84299,MP84300,MP84301,MP84302,MP84303,MP84304
ICV Standard	MP84305
CCV Standard	MP84307
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84306, MP84309,MP84313

19	Q1223-09	A6307	SAM	01/31/25 17:30		Mohan	OK
20	Q1223-10	A6308	SAM	01/31/25 17:32		Mohan	OK
21	Q1223-11	A6309	SAM	01/31/25 17:34		Mohan	OK
22	Q1223-12	A6320	SAM	01/31/25 17:36		Mohan	OK
23	Q1223-13	A6321	SAM	01/31/25 17:39		Mohan	OK
24	Q1223-14	A6322	SAM	01/31/25 17:41		Mohan	OK
25	Q1223-15	A6323	SAM	01/31/25 17:43		Mohan	OK
26	Q1223-16	A6324	SAM	01/31/25 17:45		Mohan	OK
27	PB166456BL	PBS456	MB	01/31/25 17:48		Mohan	OK
28	CCV002	CCV002	CCV	01/31/25 17:50		Mohan	OK
29	CCB002	CCB002	CCB	01/31/25 17:52		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 # LB134741

Review By	Mohan Bera	Review On	2/19/2025 11:15:39 AM
Supervise By	Janvi Patel	Supervise On	2/19/2025 11:18:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP84548,MP84549,MP84550,MP84551,MP84552,MP84553
ICV Standard	MP84554
CCV Standard	MP84556
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84555,MP84557,MP84561

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/18/25 13:48		Mohan	OK
2	S0.2	S01	CAL2	02/18/25 13:50		Mohan	OK
3	S2.5	S02	CAL3	02/18/25 13:53		Mohan	OK
4	S5	S05	CAL4	02/18/25 13:55		Mohan	OK
5	S7.5	S04	CAL5	02/18/25 13:57		Mohan	OK
6	S10	S05	CAL6	02/18/25 14:02		Mohan	OK
7	ICV008	ICV008	ICV	02/18/25 14:06		Mohan	OK
8	ICB008	ICB008	ICB	02/18/25 14:08		Mohan	OK
9	CCV081	CCV081	CCV	02/18/25 14:10		Mohan	OK
10	CCB081	CCB081	CCB	02/18/25 14:13		Mohan	OK
11	PB166766BL	PBW766	MB	02/18/25 14:15		Mohan	OK
12	Q1200-01	ME2964	SAM	02/18/25 14:17		Mohan	OK
13	Q1200-02	ME2964D	DUP	02/18/25 14:19		Mohan	OK
14	Q1200-03	ME2964S	MS	02/18/25 14:22		Mohan	OK
15	Q1200-04	ME2981	SAM	02/18/25 14:24		Mohan	OK
16	Q1200-05	ME2982	SAM	02/18/25 14:26		Mohan	OK
17	Q1200-06	ME2983	SAM	02/18/25 14:28		Mohan	OK
18	Q1200-07	ME2984	SAM	02/18/25 14:31		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 # LB134741

Review By	Mohan Bera	Review On	2/19/2025 11:15:39 AM
Supervise By	Janvi Patel	Supervise On	2/19/2025 11:18:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP84548,MP84549,MP84550,MP84551,MP84552,MP84553
ICV Standard	MP84554
CCV Standard	MP84556
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84555,MP84557,MP84561

19	Q1200-08	ME2985	SAM	02/18/25 14:33		Mohan	OK
20	Q1200-09	ME2986	SAM	02/18/25 14:35		Mohan	OK
21	Q1200-10	ME2987	SAM	02/18/25 14:38		Mohan	OK
22	Q1200-11	ME2988	SAM	02/18/25 14:40		Mohan	OK
23	Q1200-12	ME2992	SAM	02/18/25 14:42		Mohan	OK
24	Q1200-13	ME2994	SAM	02/18/25 14:44		Mohan	OK
25	Q1200-14	ME2995	SAM	02/18/25 14:47		Mohan	OK
26	Q1200-15	ME2999	SAM	02/18/25 14:49		Mohan	OK
27	Q1200-16	ME2997	SAM	02/18/25 14:51		Mohan	OK
28	Q1200-17	ME2998	SAM	02/18/25 14:53		Mohan	OK
29	Q1200-18	ME29A0	SAM	02/18/25 14:56		Mohan	OK
30	Q1200-19	ME29A1	SAM	02/18/25 14:58		Mohan	OK
31	CCV082	CCV082	CCV	02/18/25 15:00		Mohan	OK
32	CCB082	CCB082	CCB	02/18/25 15:03		Mohan	OK
33	Q1200-20	ME29A2	SAM	02/18/25 15:05		Mohan	OK
34	Q1200-21	ME29A3	SAM	02/18/25 15:07		Mohan	OK
35	Q1223-17	A6310	SAM	02/18/25 15:09		Mohan	OK
36	PB166767BL	PBW767	MB	02/18/25 15:12		Mohan	OK
37	Q1204-01	ME2975	SAM	02/18/25 15:14		Mohan	OK
38	Q1204-02	ME2975D	DUP	02/18/25 15:16		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 # LB134741

Review By	Mohan Bera	Review On	2/19/2025 11:15:39 AM
Supervise By	Janvi Patel	Supervise On	2/19/2025 11:18:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP84548,MP84549,MP84550,MP84551,MP84552,MP84553
ICV Standard	MP84554
CCV Standard	MP84556
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84555,MP84557,MP84561

39	Q1204-03	ME2975S	MS	02/18/25 15:18		Mohan	OK
40	Q1204-04	ME2978	SAM	02/18/25 15:21		Mohan	OK
41	Q1204-05	ME2979	SAM	02/18/25 15:23		Mohan	OK
42	Q1204-06	ME2989	SAM	02/18/25 15:25		Mohan	OK
43	Q1204-07	ME2991	SAM	02/18/25 15:28		Mohan	OK
44	Q1204-08	ME2996	SAM	02/18/25 15:30		Mohan	OK
45	Q1204-09	ME29A4	SAM	02/18/25 15:32		Mohan	OK
46	Q1204-10	ME29A5	SAM	02/18/25 15:34		Mohan	OK
47	Q1204-11	ME29A7	SAM	02/18/25 15:37		Mohan	OK
48	Q1204-12	ME29A8	SAM	02/18/25 15:39		Mohan	OK
49	Q1204-13	ME29B0	SAM	02/18/25 15:41		Mohan	OK
50	Q1204-14	ME29B1	SAM	02/18/25 15:44		Mohan	OK
51	Q1204-15	ME29A9	SAM	02/18/25 15:46		Mohan	OK
52	Q1204-16	ME29B2	SAM	02/18/25 15:48		Mohan	OK
53	CCV083	CCV083	CCV	02/18/25 15:50		Mohan	OK
54	CCB083	CCB083	CCB	02/18/25 15:53		Mohan	OK
55	Q1204-17	ME29B3	SAM	02/18/25 15:55		Mohan	OK
56	Q1204-18	ME29B4	SAM	02/18/25 15:57		Mohan	OK
57	Q1204-19	ME29B5	SAM	02/18/25 15:59		Mohan	OK
58	Q1204-20	ME29B8	SAM	02/18/25 16:02		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 # LB134741

Review By	Mohan Bera	Review On	2/19/2025 11:15:39 AM
Supervise By	Janvi Patel	Supervise On	2/19/2025 11:18:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP84548,MP84549,MP84550,MP84551,MP84552,MP84553
ICV Standard	MP84554
CCV Standard	MP84556
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84555,MP84557,MP84561

59	Q1204-21	ME29B9	SAM	02/18/25 16:04		Mohan	OK
60	Q1204-22	ME29C0	SAM	02/18/25 16:06		Mohan	OK
61	CCV084	CCV084	CCV	02/18/25 16:09		Mohan	OK
62	CCB084	CCB084	CCB	02/18/25 16:11		Mohan	OK

ORIGIN ID:HIEA (603) 513-1000
KARINA ZAWILINSKI
NOBIS ENGINEERING, INC
18 CHENELL DRIVE

CONCORD, NH 03301
UNITED STATES US

SHIP DATE: 28JAN25
ACTWGT: 40.00 LB
CAD: 109972084/INET4820
DIMS: 24x15x15 IN

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 728-3152
INV:
PO:
REF: D00005.004/0412
DEPT:

1-30-25
9:53
2.3 lb

58CJ3/EC17/06C4

FedEx Express

J2510241217010w

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 0201 **7717 3288 6964**
MASTER

XP KBCA

07092
EWR
NJ-US

After printing this label:
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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:
At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.
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ORIGIN ID:HIEA (603) 513-1000
KARINA ZAWILINSKI
NOBIS ENGINEERING, INC
18 CHENELL DRIVE

CONCORD, NH 03301
UNITED STATES US

SHIP DATE: 28JAN25
ACTWGT: 40.00 LB
CAD: 109972084/INET4820
DIMS: 24x15x15 IN

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 728-3152 REF: D00005.0040412
INV:
PO: DEPT:

68CJ3/EC17/C6C4

1-30-25
9:53
2 of 2

FedEx Express

J2510241210tuu

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

MPS# 0263 **7717 3288 7478**
Mstr# **7717 3288 6964** 0201

XP KBCA

07092
EWR
NJ-US

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At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.
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Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	Q1223	Order Date :	1/30/2025 9:53:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51952	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	1/30/2025 9:53:00 AM	EDD Type :	EPA CLP
Date Sign Off :	1/30/2025 12:09:20 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
Q1223-01	A6301	Solid	01/27/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-02	A6302	Solid	01/27/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-03	A6303	Solid	01/27/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-04	A6304	Solid	01/27/2025		FD				
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-05	A6305	Solid	01/27/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-06	A6305D	Solid	01/27/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025

Q1223-07	A6305S	Solid	01/27/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-08	A6306	Solid	01/27/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-09	A6307	Solid	01/27/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-10	A6308	Solid	01/27/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-11	A6309	Solid	01/27/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-12	A6320	Solid	01/28/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-13	A6321	Solid	01/28/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-14	A6322	Solid	01/28/2025					
				Mercury	SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL	SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12	SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids	Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-15	A6323	Solid	01/28/2025					

				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-16	A6324	Solid	01/28/2025						
				Mercury		SFAM_HG	2	02/03/2025	02/20/2025
				Metals CLP MS FULL		SFAM_MS	2	02/03/2025	02/20/2025
				Metals CLP12		SFAM_AES	2	02/03/2025	02/20/2025
				Percent Solids		Chemtech -SOP	2	02/03/2025	02/20/2025
Q1223-17	A6310	Water	01/27/2025		EB				
				Mercury		SFAM_HG	15	02/20/2025	02/20/2025
				Metals CLP MS		SFAM_MS	15	02/20/2025	02/20/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166385 **WorkList ID :** 187298 **Department :** Digestion **Date :** 01-30-2025 12:31:35

1849

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1223-01	A6301	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-02	A6302	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-03	A6303	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-04	A6304	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-05	A6305	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-06	A6305D	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-07	A6305S	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-08	A6306	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-09	A6307	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-10	A6308	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-11	A6309	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_AES
Q1223-12	A6320	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_AES
Q1223-13	A6321	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_AES
Q1223-14	A6322	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_AES
Q1223-15	A6323	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_AES
Q1223-16	A6324	Solid	Metals CLP12	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_AES

Date/Time 01/30/25 12:50
Raw Sample Received by: SJD. met dj. SM
Raw Sample Relinquished by:

Date/Time 01/30/25 13:50
Raw Sample Received by: SM
Raw Sample Relinquished by: SJD. met dj.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166384 **WorkList ID :** 187297 **Department :** Digestion **Date :** 01-30-2025 12:29:35

1850

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1223-01	A6301	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-02	A6302	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-03	A6303	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-04	A6304	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-05	A6305	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-06	A6305D	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-07	A6305S	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-08	A6306	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-09	A6307	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-10	A6308	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-11	A6309	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-12	A6320	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_MS
Q1223-13	A6321	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_MS
Q1223-14	A6322	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_MS
Q1223-15	A6323	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_MS
Q1223-16	A6324	Solid	Metals CLP MS FULL	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_MS

Date/Time 01/30/25 12:55

Raw Sample Received by: SDG.MET JIS C

Raw Sample Relinquished by: SM

Date/Time 01/30/25 13:55

Raw Sample Received by: SM

Raw Sample Relinquished by: SDG.MET.D17

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166570 **WorkList ID :** 187497 **Department :** Digestion **Date :** 02-05-2025 09:46:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1135-09	YE8H7	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	Q31	01/17/2025	SFAM_MS
Q1223-17	A6310	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C21	01/27/2025	SFAM_MS

18551

Date/Time 02/05/25 10:00
Raw Sample Received by: SRD. metals
Raw Sample Relinquished by: CP Sm

Date/Time 02/05/25 11:00
Raw Sample Received by: CP Sm
Raw Sample Relinquished by: SRD. met. dig.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1223_HgS **WorkList ID :** 187352 **Department :** Digestion **Date :** 01-31-2025 10:38:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1223-01	A6301	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-02	A6302	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-03	A6303	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-04	A6304	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-05	A6305	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-06	A6305D	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-13	A6321	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-14	A6322	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_HG
Q1223-15	A6323	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_HG
Q1223-16	A6324	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_HG
Q1223-07	A6305S	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_HG
Q1223-08	A6306	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-09	A6307	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-10	A6308	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-11	A6309	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/27/2025	SFAM_HG
Q1223-12	A6320	Solid	Mercury	Cool 4 deg C	USEP01	C21	01/28/2025	SFAM_HG

1852

Date/Time 1/31/25 P 11:25

Raw Sample Received by: MB - Dig. Lab

Raw Sample Relinquished by: MB - Dig. Lab

Date/Time 1/31/25 P 12:45

Raw Sample Received by: MB - Dig. Lab

Raw Sample Relinquished by: MB - Dig. Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1200_HgW **WorkList ID :** 187744 **Department :** Digestion **Date :** 02-18-2025 10:19:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1200-01	ME2964	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/24/2025	SFAM_HG
Q1200-02	ME2964D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/24/2025	SFAM_HG
Q1200-03	ME2964S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/24/2025	SFAM_HG
Q1200-04	ME2981	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/24/2025	SFAM_HG
Q1200-05	ME2982	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/27/2025	SFAM_HG
Q1200-06	ME2983	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-07	ME2984	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-08	ME2985	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-09	ME2986	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-10	ME2987	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-11	ME2988	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-12	ME2992	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/28/2025	SFAM_HG
Q1200-13	ME2994	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-14	ME2995	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-15	ME2999	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-16	ME2997	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-17	ME2998	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-18	ME29A0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1200-19	ME29A1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1200-20	ME29A2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1200-21	ME29A3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG

1853

Date/Time 2/18/25 @ 10:15

Raw Sample Received by: [signature] DHG Lab

Raw Sample Relinquished by: [signature] DHG Lab

Date/Time 2/18/25 @ 10:??

Raw Sample Received by: [signature] DHG Lab

Raw Sample Relinquished by: [signature] DHG Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1200_HgW **WorkList ID :** 187744 **Department :** Digestion **Date :** 02-18-2025 10:19:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1223-17	A6310	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C21	01/27/2025	SFAM_HG

18554

Date/Time 2/18/25 @ 10:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 2/18/25 @ 16:55

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]