SDG COVER PAGE

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

Lab Code: ACE Case No.: 51952 MA No.: SDG No.: A6311

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
A6311	Q1245-01		X		
A6312	Q1245-02		X		
A6315	Q1245-03			X	
A6316	Q1245-04			X	
A6327	Q1245-05		X	X	
A6328	Q1245-06		X	X	
A6329	Q1245-07		X	X	
A6330	Q1245-08		X	X	
A6335	Q1245-09		X	X	
A6335D	Q1245-10		X	X	
A6335S	Q1245-11		X	X	
A6336	Q1245-12		X	X	
A6337	Q1245-13		X	X	
A6338	Q1245-14		X	X	
A6339	Q1245-15		X	X	
A6340	Q1245-16		X	X	
A6341	Q1245-17		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 # A6311

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025

CarrierName: FedEx

AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952

Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 9087898900

2

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
R01092501-1	A6311	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-2	A6312	PE Water/ ERA	PE	Metals ICP-MS(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-3	A6313	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-4	A6314	PE Soil/ ERA	PE	Metals ICP-MS, ICP-AES, Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-5	A6315	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-6	A6316	PE Water/ ERA	PE	Hg(21)	A (4 C) (1)	PE	01/09/2025 12:00	5
R01092501-7	A6317	PE Water/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (1)	PE	01/09/2025 12:00	✓ 5
R01092501-8	A6318	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	5
R01092501-9	A6319	PE Soil/ ERA	PE	PAH/PCP SIM(21)	A (4 C) (2)	PE	01/09/2025 12:00	5
SD-026-012925	A6325	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	SD/SW/PW-026	01/29/2025 09:35	5
SD-REF-10-012925	A6326	Sediment/ B.Fortier	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	REF-10	01/29/2025 09:00	5
SW-REF-03-012925	A6327	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (HNO3), W (4 C) (4)	REF-03	01/29/2025 10:20	✓ pH 1.3 3
SW-REF-02-012925	A6328	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (HNO3), Y (4 C) (4)	REF-02	01/29/2025 11:20	pH 1.3 4

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
Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Shipment for Case Complete? Y

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
	NOBIS	1/30/25 1700		9:35 1-31-25	IR-Gun #1 1.9; 2.9; 2.4; 2.1; 2.0 Custody Seal Intact Temp Blank present

68HERH20D0011

SDG # A6311

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 1-013025-152400-0013

DateShipped: 1/30/2025
CarrierName: FedEx
AirbillNo: 771783263096

Case #: 51952
Cooler #: 5

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 9087898900

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SW-FD01-012925	A6329	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	FD-01	01/29/2025 12:00	pH 1.3 4
SW-REF-01-012925	A6330	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-01	01/29/2025 12:15	pH 1.3 3
SD-REF-03-012925	A6331	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	N (4 C), O (4 C) (2)	REF-03	01/29/2025 11:30	5
SD-REF-02-012925	A6332	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	P (4 C), Q (4 C) (2)	REF-02	01/29/2025 12:55	5
SD-REF-01-012925	A6333	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	REF-01	01/29/2025 13:15	5
SD-FD02-012925	A6334	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	FD-02	01/29/2025 13:00	5
SW-REF-07-012925	A6335	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (12)	REF-07	01/29/2025 15:00	pH 1.3 OK 3
SW-REF-08-012925	A6336	Surface Water/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (HNO3), Y (4 C) (4)	REF-08	01/29/2025 15:30	pH 1.3 4
SD-EB-012925	A6337	Equipment Blank/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	N (HNO3), O (4 C) (4)	Equipment Blank	01/29/2025 17:00	pH 1.3 3
SW-REF-09-013025	A6338	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-09	01/30/2025 08:10	pH 1.3 2

Sample(s) to be used for Lab QC: SW-REF-07-012925 Tag A, SW-REF-07-012925 Tag Z - 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

Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Shipment for Case Complete? Y

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
	NOBIS	1/30/25 1700		9:35 1-31-25	IR Gun # 1c 1.9; 2.9; 2.4; 2.1; 2.0 -
					Custody Seal Intact
					Temp Blank present

68HERH20D0011

SDG # A6311

USEPA CLP COC (LAB COPY)

DateShipped: 1/30/2025

CarrierName: FedEx

AirbillNo: 771783263096

CHAIN OF CUSTODY RECORD

Case #: 51952

Cooler #: 5

No: 1-013025-152400-0013

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 9087898900

4

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
SW-REF-06-013025	A6339	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-06	01/30/2025 08:45	pH 1.3 2
SW-REF-05-013025	A6340	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-05	01/30/2025 09:05	pH 1.3 2
SW-REF-04-013025	A6341	Surface Water/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (HNO3) (4)	REF-04	01/30/2025 09:40	pH 1.3 2
SD-REF-07-013025	A6342	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (4 C), W (4 C) (6)	REF-07	01/30/2025 08:15	1
SD-REF-09-013025	A6343	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	R (4 C), S (4 C) (2)	REF-09	01/30/2025 09:10	5
SD-REF-06-013025	A6344	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	T (4 C), U (4 C) (2)	REF-06	01/30/2025 09:35	1
SD-REF-05-013025	A6345	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	V (4 C), W (4 C) (2)	REF-05	01/30/2025 11:40	1
SD-REF-11-013025	A6346	Sediment/ T.Furtado	Grab	Metals + Hg(21), PAH SIM(21)	X (4 C), Y (4 C) (2)	REF-11	01/30/2025 12:35	1
SD-REF-08-013025	A6347	Sediment/ T.Furtado	Grab	PAH SIM(21), Metals + Hg(21)	A (4 C), Z (4 C) (2)	REF-08	01/30/2025 10:50	1

Sample(s) to be used for Lab QC: SD-REF-07-013025 Tag V, SD-REF-07-013025 Tag W - 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

Surface Water ICP-MS Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn

Analysis Key

Shipment for Case Complete? Y

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
	NOBIS	1/30/25 1700		9:35 1-31-25	IR Gun #: 1.9, 2.9, 2.4, 2.1, 2.0

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 4
Received By (Print Name) Cassandra Lee		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6311	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.	771783264920 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.9 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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6338	1.3	Z	Q1245-14	Intact
2	A6339	1.3	Z	Q1245-15	Intact
3	A6340	1.3	Z	Q1245-16	Intact
4	A6341	1.3	Z	Q1245-17	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	1/31/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 4
Received By (Print Name) Gissarova Leila		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6311	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.	771783265147 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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6327	1.3	W V dl	Q1245-05	Intact
2	A6330	1.3	Z	Q1245-08	Intact
3	A6335	1.3	Z	Q1245-09	Intact
4	A6335D	1.3	Z	Q1245-10	Intact
5	A6335S	1.3	Z	Q1245-11	Intact
6	A6337	1.3	O	Q1245-13	Intact
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 1/31/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 3 of 4
Received By (Print Name) Cassandra Lira		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6311	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.	771783266599 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6328	1.3	*X	Q1245-06	Intact
2	A6329	1.3	Z	Q1245-07	Intact
3	A6336	1.3	Y	Q1245-12	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 1/31/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 4 of 4
Received By (Print Name) Cassandra Rea		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51952	SDG No. A6311	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.	771783265331 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 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	01/31/2025
12.Time Received	09:35

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	A6311	N/A	A	Q1245-01	Intact
2	A6312	N/A	A	Q1245-02	Intact
3	A6315	N/A	A	Q1245-03	Intact
4	A6316	N/A	A	Q1245-04	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. N/A
Date 1/31/25	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.	**A6311**
MA NO.		SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	
3. Sample Log-In Sheet (DC-1)	5	8	✓	
4. CSF Inventory Sheet (DC-2)	9	11	✓	
5. SDG Narrative	12	15	✓	
6. Communication Logs	16	21	✓	
7. Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	22	34	✓	
18. Instrument raw data by instrument in analysis order	35	810	✓	
Other Data				
19. Standard and Reagent Preparation Logs	811	964	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	965	966	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	967	973	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	974	975	✓	

	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	976	988	✓	
27. Instrument raw data by instrument in analysis order	989	991	✓	
Other Data				
28. Standard and Reagent Preparation Logs	992	1019	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1020	1021	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1022	1025	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	1026	1027	✓	
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 4)	1028	1031	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1032	1033	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1034	1036	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

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

Audited by:
(EPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # A6311
CASE # 51952
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1245

A. Number of Samples and Date of Receipt

15 Water samples were delivered to the laboratory intact on 01/31/2025

B. Parameters

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 & Mercury.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.9^{o}C, 2.4^{o}C, 2.1^{o}C, 2.0^{o}C

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

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

E. Corrective Action taken for above:

Resolution : 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.

F. Analytical Techniques:

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

G. Calculation:

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 A6311 For Arsenic:

If C = 648.67 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 648.67 \times \frac{50}{50} \times 1$$

$$= 648.67 \text{ µg/L}$$

$$= 650 \text{ µg/L (Reported Result with Signification)}$$

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 A6315:

If C = 8.6599 ppb
DF = 1

$$\text{Concentration or Result (µg/L)} = 8.6599 \times 1$$

$$= 8.6599 \text{ µg/L}$$

$$= 8.7 \text{ µg/L (Reported Result with Signification)}$$

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. MS Spike sample did meet requirements except for Selenium. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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

284 Sheffield Street
Mountainside, NJ 07092

Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
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: Friday, January 31, 2025 2:30 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Johnson, Matthew; Bauer, Heather E; Iverson, Jessica
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple | FINAL
Attachments: PE Instructions 01.31.25 (003).pdf; SKM_95825013110190.pdf; 51952-TR COC.pdf

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

Secured by Check Point

Good 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

GENERAL DYNAMICS
information technology

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

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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

EPA SAMPLE NO.

A6311

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.: A6311

Matrix: Water Lab Sample ID: Q1245-01

% Solids: Date Received: 01/31/2025

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	1300		02/10/2025	1725
7440-36-0	Antimony	610		02/10/2025	1725
7440-38-2	Arsenic	650		02/10/2025	1725
7440-39-3	Barium	1300		02/10/2025	1725
7440-41-7	Beryllium	140		02/10/2025	1725
7440-43-9	Cadmium	710		02/10/2025	1725
7440-70-2	Calcium	500	U	02/10/2025	1725
7440-47-3	Chromium	310		02/10/2025	1725
7440-48-4	Cobalt	260		02/10/2025	1725
7440-50-8	Copper	920		02/10/2025	1725
7439-89-6	Iron	2000		02/10/2025	1725
7439-92-1	Lead	740		02/10/2025	1725
7439-95-4	Magnesium	500	U	02/10/2025	1725
7439-96-5	Manganese	760		02/10/2025	1725
7440-02-0	Nickel	540		02/10/2025	1725
7440-09-7	Potassium	500	U	02/10/2025	1725
7782-49-2	Selenium	250	*	02/10/2025	1725
7440-22-4	Silver	780		02/10/2025	1725
7440-23-5	Sodium	500	U	02/10/2025	1725
7440-28-0	Thallium	740		02/10/2025	1725
7440-62-2	Vanadium	1700	D	02/10/2025	1817
7440-66-6	Zinc	1000		02/10/2025	1725

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

Comments:

EPA SAMPLE NO.

A6312

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.: A6311

Matrix: Water Lab Sample ID: Q1245-02

% Solids: Date Received: 01/31/2025

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	3500		02/10/2025	1728
7440-36-0	Antimony	840		02/10/2025	1728
7440-38-2	Arsenic	330		02/10/2025	1728
7440-39-3	Barium	620		02/10/2025	1728
7440-41-7	Beryllium	150		02/10/2025	1728
7440-43-9	Cadmium	290		02/10/2025	1728
7440-70-2	Calcium	500	U	02/10/2025	1728
7440-47-3	Chromium	380		02/10/2025	1728
7440-48-4	Cobalt	830		02/10/2025	1728
7440-50-8	Copper	240		02/10/2025	1728
7439-89-6	Iron	3000		02/10/2025	1728
7439-92-1	Lead	960		02/10/2025	1728
7439-95-4	Magnesium	500	U	02/10/2025	1728
7439-96-5	Manganese	640		02/10/2025	1728
7440-02-0	Nickel	1900	D	02/10/2025	1820
7440-09-7	Potassium	500	U	02/10/2025	1728
7782-49-2	Selenium	690	*	02/10/2025	1728
7440-22-4	Silver	1000	D	02/10/2025	1820
7440-23-5	Sodium	500	U	02/10/2025	1728
7440-28-0	Thallium	180		02/10/2025	1728
7440-62-2	Vanadium	83		02/10/2025	1728
7440-66-6	Zinc	1300		02/10/2025	1728

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

Comments:

EPA SAMPLE NO.

A6327

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.: A6311

Matrix: Water Lab Sample ID: Q1245-05

% Solids: Date Received: 01/31/2025

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	3500		02/10/2025	1731
7440-36-0	Antimony	0.43	J	02/10/2025	1731
7440-38-2	Arsenic	13		02/10/2025	1731
7440-39-3	Barium	21		02/10/2025	1731
7440-41-7	Beryllium	0.27	J	02/10/2025	1731
7440-43-9	Cadmium	1.0	U	02/10/2025	1731
7440-70-2	Calcium	31000		02/10/2025	1731
7440-47-3	Chromium	6.4		02/10/2025	1731
7440-48-4	Cobalt	2.1		02/10/2025	1731
7440-50-8	Copper	3.1		02/10/2025	1731
7439-89-6	Iron	7700		02/10/2025	1731
7439-92-1	Lead	8.6		02/10/2025	1731
7439-95-4	Magnesium	11000		02/10/2025	1731
7439-96-5	Manganese	150		02/10/2025	1731
7440-02-0	Nickel	6.9		02/10/2025	1731
7440-09-7	Potassium	880		02/10/2025	1731
7782-49-2	Selenium	5.0	U*	02/10/2025	1731
7440-22-4	Silver	0.14	J	02/10/2025	1731
7440-23-5	Sodium	5400		02/10/2025	1731
7440-28-0	Thallium	1.0	U	02/10/2025	1731
7440-62-2	Vanadium	7.1		02/10/2025	1731
7440-66-6	Zinc	22		02/10/2025	1731

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

Comments:

EPA SAMPLE NO.

A6328

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.: A6311

Matrix: Water Lab Sample ID: Q1245-06

% Solids: Date Received: 01/31/2025

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	18	J	02/10/2025	1734
7440-36-0	Antimony	0.18	J	02/10/2025	1734
7440-38-2	Arsenic	1.4		02/10/2025	1734
7440-39-3	Barium	6.7	J	02/10/2025	1734
7440-41-7	Beryllium	1.0	U	02/10/2025	1734
7440-43-9	Cadmium	1.0	U	02/10/2025	1734
7440-70-2	Calcium	57000		02/10/2025	1734
7440-47-3	Chromium	0.69	J	02/10/2025	1734
7440-48-4	Cobalt	0.12	J	02/10/2025	1734
7440-50-8	Copper	0.48	J	02/10/2025	1734
7439-89-6	Iron	130	J	02/10/2025	1734
7439-92-1	Lead	1.0	U	02/10/2025	1734
7439-95-4	Magnesium	19000		02/10/2025	1734
7439-96-5	Manganese	66		02/10/2025	1734
7440-02-0	Nickel	0.57	J	02/10/2025	1734
7440-09-7	Potassium	3900		02/10/2025	1734
7782-49-2	Selenium	5.0	U*	02/10/2025	1734
7440-22-4	Silver	1.0	U	02/10/2025	1734
7440-23-5	Sodium	63000		02/10/2025	1734
7440-28-0	Thallium	1.0	U	02/10/2025	1734
7440-62-2	Vanadium	0.26	J	02/10/2025	1734
7440-66-6	Zinc	1.4	J	02/10/2025	1734

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

Comments:

EPA SAMPLE NO.

A6329

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.: A6311

Matrix: Water Lab Sample ID: Q1245-07

% Solids: Date Received: 01/31/2025

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	16	J	02/10/2025	1738
7440-36-0	Antimony	0.13	J	02/10/2025	1738
7440-38-2	Arsenic	1.3		02/10/2025	1738
7440-39-3	Barium	6.0	J	02/10/2025	1738
7440-41-7	Beryllium	1.0	U	02/10/2025	1738
7440-43-9	Cadmium	1.0	U	02/10/2025	1738
7440-70-2	Calcium	52000		02/10/2025	1738
7440-47-3	Chromium	0.39	J	02/10/2025	1738
7440-48-4	Cobalt	0.11	J	02/10/2025	1738
7440-50-8	Copper	0.44	J	02/10/2025	1738
7439-89-6	Iron	100	J	02/10/2025	1738
7439-92-1	Lead	1.0	U	02/10/2025	1738
7439-95-4	Magnesium	17000		02/10/2025	1738
7439-96-5	Manganese	55		02/10/2025	1738
7440-02-0	Nickel	0.46	J	02/10/2025	1738
7440-09-7	Potassium	3500		02/10/2025	1738
7782-49-2	Selenium	5.0	U*	02/10/2025	1738
7440-22-4	Silver	1.0	U	02/10/2025	1738
7440-23-5	Sodium	57000		02/10/2025	1738
7440-28-0	Thallium	1.0	U	02/10/2025	1738
7440-62-2	Vanadium	0.24	J	02/10/2025	1738
7440-66-6	Zinc	0.84	J	02/10/2025	1738

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

Comments:

EPA SAMPLE NO.

A6330

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.: A6311

Matrix: Water Lab Sample ID: Q1245-08

% Solids: Date Received: 01/31/2025

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	160		02/10/2025	1741
7440-36-0	Antimony	0.28	J	02/10/2025	1741
7440-38-2	Arsenic	6.5		02/10/2025	1741
7440-39-3	Barium	8.6	J	02/10/2025	1741
7440-41-7	Beryllium	1.0	U	02/10/2025	1741
7440-43-9	Cadmium	1.0	U	02/10/2025	1741
7440-70-2	Calcium	41000		02/10/2025	1741
7440-47-3	Chromium	1.3	J	02/10/2025	1741
7440-48-4	Cobalt	0.42	J	02/10/2025	1741
7440-50-8	Copper	1.3	J	02/10/2025	1741
7439-89-6	Iron	4000		02/10/2025	1741
7439-92-1	Lead	0.51	J	02/10/2025	1741
7439-95-4	Magnesium	18000		02/10/2025	1741
7439-96-5	Manganese	510		02/10/2025	1741
7440-02-0	Nickel	1.1		02/10/2025	1741
7440-09-7	Potassium	2700		02/10/2025	1741
7782-49-2	Selenium	5.0	U*	02/10/2025	1741
7440-22-4	Silver	1.0	U	02/10/2025	1741
7440-23-5	Sodium	20000		02/10/2025	1741
7440-28-0	Thallium	1.0	U	02/10/2025	1741
7440-62-2	Vanadium	0.51	J	02/10/2025	1741
7440-66-6	Zinc	5.0		02/10/2025	1741

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

Comments:

EPA SAMPLE NO.

A6335

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.: A6311

Matrix: Water Lab Sample ID: Q1245-09

% Solids: Date Received: 01/31/2025

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	1500		02/10/2025	1744
7440-36-0	Antimony	2.0	U	02/10/2025	1744
7440-38-2	Arsenic	2.7		02/10/2025	1744
7440-39-3	Barium	20		02/10/2025	1744
7440-41-7	Beryllium	0.090	J	02/10/2025	1744
7440-43-9	Cadmium	1.0	U	02/10/2025	1744
7440-70-2	Calcium	12000		02/10/2025	1744
7440-47-3	Chromium	3.0		02/10/2025	1744
7440-48-4	Cobalt	0.88	J	02/10/2025	1744
7440-50-8	Copper	2.1		02/10/2025	1744
7439-89-6	Iron	2400		02/10/2025	1744
7439-92-1	Lead	5.0		02/10/2025	1744
7439-95-4	Magnesium	2900		02/10/2025	1744
7439-96-5	Manganese	450		02/10/2025	1744
7440-02-0	Nickel	2.3		02/10/2025	1744
7440-09-7	Potassium	2600		02/10/2025	1744
7782-49-2	Selenium	5.0	U*	02/10/2025	1744
7440-22-4	Silver	1.0	U	02/10/2025	1744
7440-23-5	Sodium	33000		02/10/2025	1744
7440-28-0	Thallium	1.0	U	02/10/2025	1744
7440-62-2	Vanadium	2.9	J	02/10/2025	1744
7440-66-6	Zinc	14		02/10/2025	1744

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

Comments:

EPA SAMPLE NO.

A6336

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.: A6311

Matrix: Water Lab Sample ID: Q1245-12

% Solids: Date Received: 01/31/2025

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	1000		02/10/2025	1757
7440-36-0	Antimony	0.13	J	02/10/2025	1757
7440-38-2	Arsenic	5.6		02/10/2025	1757
7440-39-3	Barium	43		02/10/2025	1757
7440-41-7	Beryllium	0.10	J	02/10/2025	1757
7440-43-9	Cadmium	1.0	U	02/10/2025	1757
7440-70-2	Calcium	16000		02/10/2025	1757
7440-47-3	Chromium	1.9	J	02/10/2025	1757
7440-48-4	Cobalt	3.4		02/10/2025	1757
7440-50-8	Copper	2.3		02/10/2025	1757
7439-89-6	Iron	10000		02/10/2025	1757
7439-92-1	Lead	3.7		02/10/2025	1757
7439-95-4	Magnesium	3400		02/10/2025	1757
7439-96-5	Manganese	3000		02/10/2025	1757
7440-02-0	Nickel	2.6		02/10/2025	1757
7440-09-7	Potassium	3100		02/10/2025	1757
7782-49-2	Selenium	5.0	U*	02/10/2025	1757
7440-22-4	Silver	1.0	U	02/10/2025	1757
7440-23-5	Sodium	38000		02/10/2025	1757
7440-28-0	Thallium	1.0	U	02/10/2025	1757
7440-62-2	Vanadium	3.0	J	02/10/2025	1757
7440-66-6	Zinc	19		02/10/2025	1757

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

Comments:

EPA SAMPLE NO.

A6337

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.: A6311

Matrix: Water Lab Sample ID: Q1245-13

% Solids: Date Received: 01/31/2025

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	02/10/2025	1800
7440-36-0	Antimony	2.0	U	02/10/2025	1800
7440-38-2	Arsenic	1.0	U	02/10/2025	1800
7440-39-3	Barium	10	U	02/10/2025	1800
7440-41-7	Beryllium	1.0	U	02/10/2025	1800
7440-43-9	Cadmium	1.0	U	02/10/2025	1800
7440-70-2	Calcium	500	U	02/10/2025	1800
7440-47-3	Chromium	6.7		02/10/2025	1800
7440-48-4	Cobalt	1.0	U	02/10/2025	1800
7440-50-8	Copper	2.0	U	02/10/2025	1800
7439-89-6	Iron	30	J	02/10/2025	1800
7439-92-1	Lead	1.0	U	02/10/2025	1800
7439-95-4	Magnesium	500	U	02/10/2025	1800
7439-96-5	Manganese	1.2		02/10/2025	1800
7440-02-0	Nickel	0.65	J	02/10/2025	1800
7440-09-7	Potassium	500	U	02/10/2025	1800
7782-49-2	Selenium	5.0	U*	02/10/2025	1800
7440-22-4	Silver	1.0	U	02/10/2025	1800
7440-23-5	Sodium	500	U	02/10/2025	1800
7440-28-0	Thallium	1.0	U	02/10/2025	1800
7440-62-2	Vanadium	5.0	U	02/10/2025	1800
7440-66-6	Zinc	5.0	U	02/10/2025	1800

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

Comments:

EPA SAMPLE NO.

A6338

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.: A6311

Matrix: Water Lab Sample ID: Q1245-14

% Solids: Date Received: 01/31/2025

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	1500		02/10/2025	1804
7440-36-0	Antimony	2.0	U	02/10/2025	1804
7440-38-2	Arsenic	2.4		02/10/2025	1804
7440-39-3	Barium	24		02/10/2025	1804
7440-41-7	Beryllium	0.090	J	02/10/2025	1804
7440-43-9	Cadmium	1.0	U	02/10/2025	1804
7440-70-2	Calcium	12000		02/10/2025	1804
7440-47-3	Chromium	3.2		02/10/2025	1804
7440-48-4	Cobalt	0.83	J	02/10/2025	1804
7440-50-8	Copper	1.7	J	02/10/2025	1804
7439-89-6	Iron	2500		02/10/2025	1804
7439-92-1	Lead	3.9		02/10/2025	1804
7439-95-4	Magnesium	2900		02/10/2025	1804
7439-96-5	Manganese	310		02/10/2025	1804
7440-02-0	Nickel	2.4		02/10/2025	1804
7440-09-7	Potassium	2500		02/10/2025	1804
7782-49-2	Selenium	5.0	U*	02/10/2025	1804
7440-22-4	Silver	1.0	U	02/10/2025	1804
7440-23-5	Sodium	31000		02/10/2025	1804
7440-28-0	Thallium	1.0	U	02/10/2025	1804
7440-62-2	Vanadium	2.8	J	02/10/2025	1804
7440-66-6	Zinc	8.3		02/10/2025	1804

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

Comments:

EPA SAMPLE NO.

A6339

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.: A6311

Matrix: Water Lab Sample ID: Q1245-15

% Solids: Date Received: 01/31/2025

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	160		02/10/2025	1807
7440-36-0	Antimony	2.0	U	02/10/2025	1807
7440-38-2	Arsenic	4.2		02/10/2025	1807
7440-39-3	Barium	17		02/10/2025	1807
7440-41-7	Beryllium	1.0	U	02/10/2025	1807
7440-43-9	Cadmium	1.0	U	02/10/2025	1807
7440-70-2	Calcium	31000		02/10/2025	1807
7440-47-3	Chromium	0.89	J	02/10/2025	1807
7440-48-4	Cobalt	2.1		02/10/2025	1807
7440-50-8	Copper	0.54	J	02/10/2025	1807
7439-89-6	Iron	5000		02/10/2025	1807
7439-92-1	Lead	0.40	J	02/10/2025	1807
7439-95-4	Magnesium	9900		02/10/2025	1807
7439-96-5	Manganese	860		02/10/2025	1807
7440-02-0	Nickel	3.4		02/10/2025	1807
7440-09-7	Potassium	3500		02/10/2025	1807
7782-49-2	Selenium	5.0	U*	02/10/2025	1807
7440-22-4	Silver	1.0	U	02/10/2025	1807
7440-23-5	Sodium	23000		02/10/2025	1807
7440-28-0	Thallium	1.0	U	02/10/2025	1807
7440-62-2	Vanadium	0.62	J	02/10/2025	1807
7440-66-6	Zinc	2.4	J	02/10/2025	1807

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

Comments:

EPA SAMPLE NO.

A6340

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.: A6311

Matrix: Water Lab Sample ID: Q1245-16

% Solids: Date Received: 01/31/2025

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	630		02/10/2025	1810
7440-36-0	Antimony	2.0	U	02/10/2025	1810
7440-38-2	Arsenic	3.1		02/10/2025	1810
7440-39-3	Barium	21		02/10/2025	1810
7440-41-7	Beryllium	1.0	U	02/10/2025	1810
7440-43-9	Cadmium	1.0	U	02/10/2025	1810
7440-70-2	Calcium	15000		02/10/2025	1810
7440-47-3	Chromium	2.8		02/10/2025	1810
7440-48-4	Cobalt	1.2		02/10/2025	1810
7440-50-8	Copper	2.5		02/10/2025	1810
7439-89-6	Iron	2700		02/10/2025	1810
7439-92-1	Lead	1.7		02/10/2025	1810
7439-95-4	Magnesium	3600		02/10/2025	1810
7439-96-5	Manganese	1100		02/10/2025	1810
7440-02-0	Nickel	2.5		02/10/2025	1810
7440-09-7	Potassium	2900		02/10/2025	1810
7782-49-2	Selenium	5.0	U*	02/10/2025	1810
7440-22-4	Silver	1.0	U	02/10/2025	1810
7440-23-5	Sodium	34000		02/10/2025	1810
7440-28-0	Thallium	1.0	U	02/10/2025	1810
7440-62-2	Vanadium	1.4	J	02/10/2025	1810
7440-66-6	Zinc	8.6		02/10/2025	1810

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

Comments:

EPA SAMPLE NO.

A6341

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.: A6311

Matrix: Water Lab Sample ID: Q1245-17

% Solids: Date Received: 01/31/2025

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	99		02/10/2025	1814
7440-36-0	Antimony	2.0	U	02/10/2025	1814
7440-38-2	Arsenic	1.0		02/10/2025	1814
7440-39-3	Barium	13		02/10/2025	1814
7440-41-7	Beryllium	1.0	U	02/10/2025	1814
7440-43-9	Cadmium	1.0	U	02/10/2025	1814
7440-70-2	Calcium	12000		02/10/2025	1814
7440-47-3	Chromium	0.41	J	02/10/2025	1814
7440-48-4	Cobalt	0.24	J	02/10/2025	1814
7440-50-8	Copper	0.49	J	02/10/2025	1814
7439-89-6	Iron	820		02/10/2025	1814
7439-92-1	Lead	0.29	J	02/10/2025	1814
7439-95-4	Magnesium	2700		02/10/2025	1814
7439-96-5	Manganese	190		02/10/2025	1814
7440-02-0	Nickel	0.69	J	02/10/2025	1814
7440-09-7	Potassium	2300		02/10/2025	1814
7782-49-2	Selenium	5.0	U*	02/10/2025	1814
7440-22-4	Silver	1.0	U	02/10/2025	1814
7440-23-5	Sodium	31000		02/10/2025	1814
7440-28-0	Thallium	1.0	U	02/10/2025	1814
7440-62-2	Vanadium	0.26	J	02/10/2025	1814
7440-66-6	Zinc	2.2	J	02/10/2025	1814

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

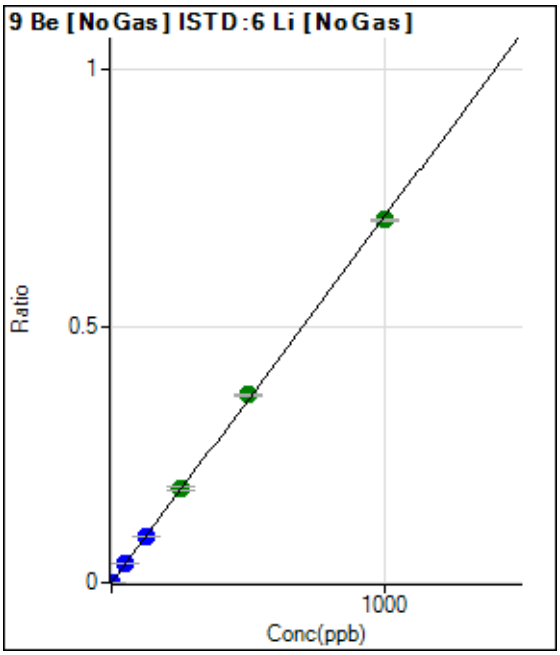
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On:2/11/2025 5:08:19 PM
Inst Id :P8

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Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

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3	006CALB.d	S03	2025-02-10 14:23:43
4	007CALS.d	S04	2025-02-10 14:26:46
5	008CALS.d	S05	2025-02-10 14:29:44
6	009CALS.d	S06	2025-02-10 14:32:34
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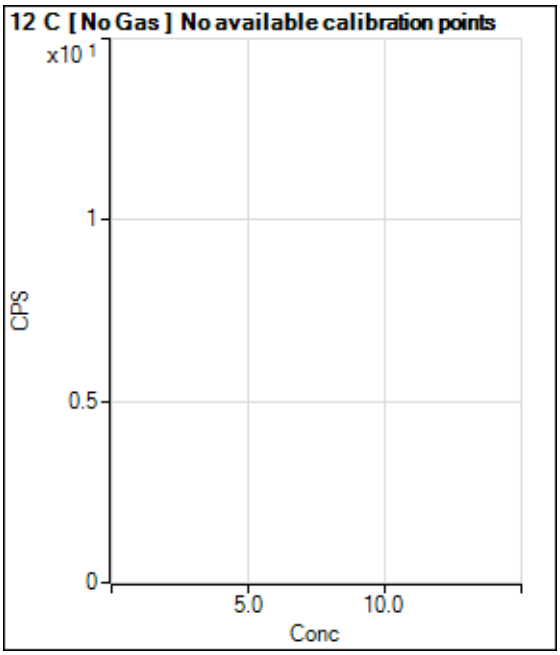
Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8



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1	☐	0.000	0.000	382.46	0.0000	P	5.9
2	☐	1.000	1.116	7131.68	0.0008	P	2.0
3	☐	50.000	51.768	309544.20	0.0369	P	0.7
4	☐	125.000	125.116	747928.40	0.0892	P	1.1
5	☐	250.000	257.303	1502193.39	0.1834	A	3.1
6	☐	500.000	513.236	2897964.90	0.3658	A	1.6
7	☐	1000.000	991.453	5555721.64	0.7067	A	0.5
8	☐			2007.81	0.0003	P	9.5

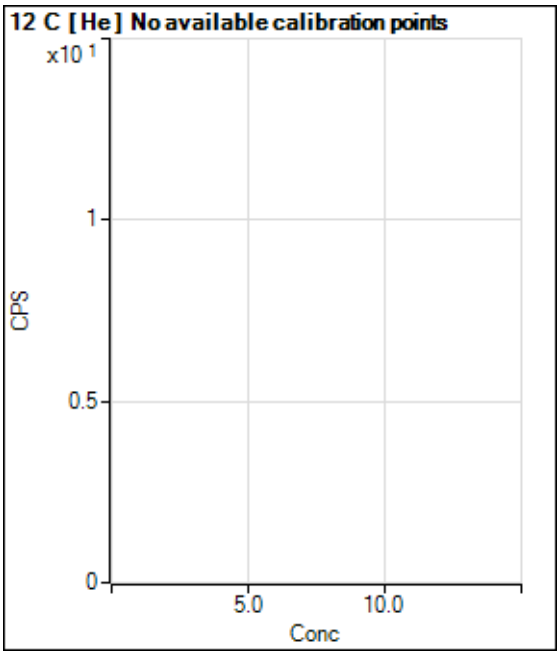
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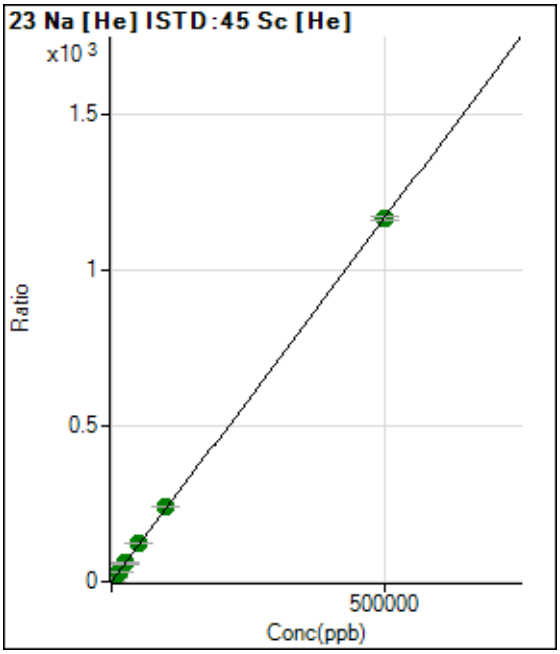


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1	☐			3277553.08		A	1.3
2	☐			3570795.50		A	1.3
3	☐			3690193.66		A	0.8
4	☐			3818881.02		A	1.1
5	☐			3871358.62		A	0.6
6	☐			4098550.50		A	1.9
7	☐			5247832.42		A	4.1
8	☐			4169754.97		A	2.9

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21700.52		P	0.6
2	☐			23612.41		P	1.1
3	☐			25010.19		P	1.3
4	☐			25551.13		P	0.7
5	☐			26433.79		P	0.1
6	☐			29677.74		P	1.0
7	☐			39303.60		P	0.8
8	☐			39841.59		P	1.1

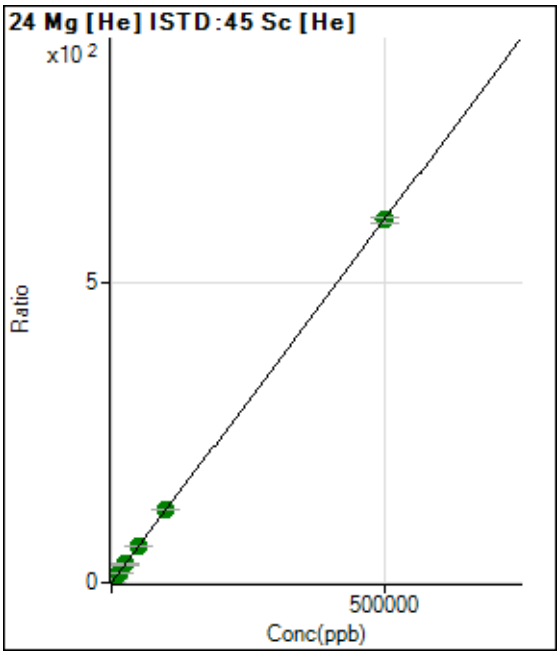


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72986.61	0.3353	P	1.3
2	☐	500.000	523.829	348224.53	1.5557	P	6.9
3	☐	5000.000	5462.187	2751366.28	13.0618	A	0.6
4	☐	12500.000	12796.998	6475475.87	30.1515	A	5.1
5	☐	25000.000	25536.343	12673001.62	59.8334	A	7.1
6	☐	50000.000	52799.163	25162816.01	123.3540	A	0.7
7	☐	100000.00	103908.90	49702598.70	242.4366	A	0.8
8	☐	500000.00	498899.41	224071821.1	1,162.740	A	0.9

y = 0.0023 * x + 0.3353
R = 1.0000
DL = 5.762
BEC = 143.9

Weight: <None>
Min Conc: 0

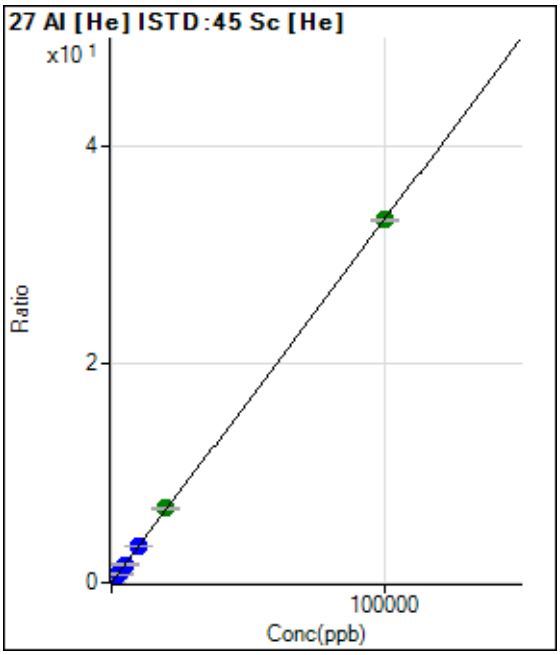
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3414.88	0.0157	P	2.2
2	☐	500.000	515.231	143388.87	0.6406	P	6.9
3	☐	5000.000	5291.307	1355299.19	6.4338	A	1.1
4	☐	12500.000	12706.917	3314128.18	15.4285	A	4.4
5	☐	25000.000	25154.003	6459821.78	30.5261	A	8.8
6	☐	50000.000	51070.780	12639278.98	61.9618	A	1.1
7	☐	100000.00	101318.71	25198573.79	122.9098	A	0.8
8	☐	500000.00	499613.37	116784412.7	606.0194	A	1.4

y = 0.0012 * x + 0.0157
R = 1.0000
DL = 0.8686
BEC = 12.93

Weight: <None>
Min Conc: 0

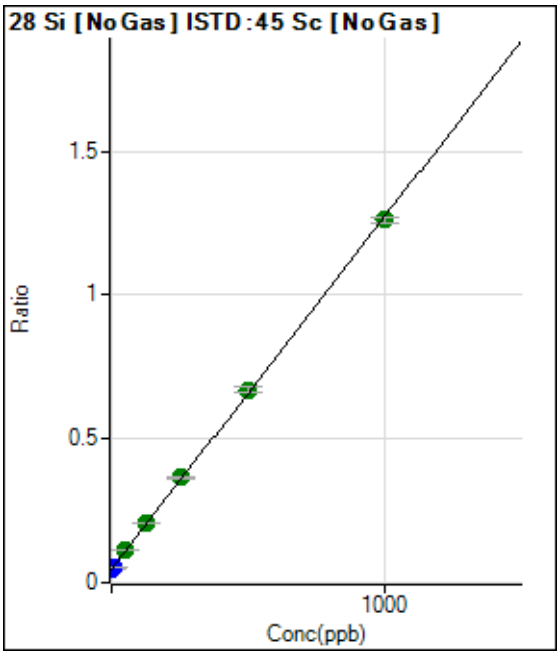


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.33	0.0004	P	17.4
2	☐	20.000	20.496	1607.89	0.0072	P	11.9
3	☐	1000.000	1022.529	71705.46	0.3404	P	0.7
4	☐	2500.000	2435.230	174024.20	0.8102	P	4.6
5	☐	5000.000	4850.022	341578.41	1.6132	P	7.8
6	☐	10000.000	10023.194	679993.51	3.3335	P	0.6
7	☐	20000.000	20408.604	1391505.43	6.7870	A	0.7
8	☐	100000.00	99924.853	6403919.07	33.2292	A	0.7

y = 3.3254E-004 * x + 3.8274E-004
R = 1.0000
DL = 0.5996
BEC = 1.151

Weight: <None>
Min Conc: 0

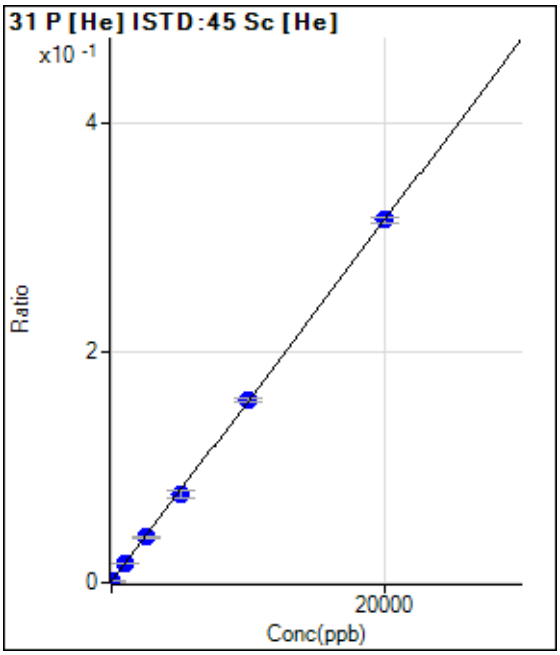
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	548174.43	0.0472	P	0.7
2	☐	10.000	6.823	641298.24	0.0556	P	0.4
3	☐	50.000	54.533	1290777.67	0.1140	A	1.9
4	☐	125.000	132.225	2346440.50	0.2092	A	1.0
5	☐	250.000	259.722	4040642.06	0.3653	A	0.5
6	☐	500.000	509.535	7370793.02	0.6713	A	2.4
7	☐	1000.000	991.704	13700052.57	1.2619	A	1.6
8	☐			649044.08	0.0646	P	0.5

y = 0.0012 * x + 0.0472
R = 0.9998
DL = 0.7757
BEC = 38.55

Weight: <None>
Min Conc: 0

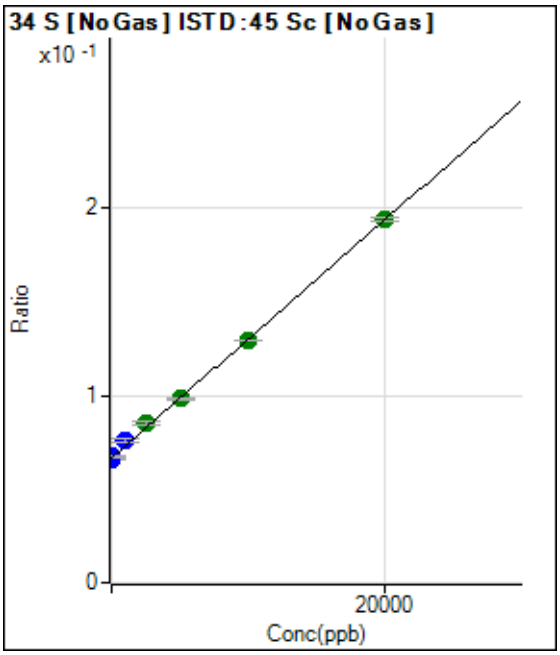


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-23.811	101.11	0.0005	P	10.0
2	☐	0.000	23.811	272.23	0.0012	P	13.2
3	☐	1000.000	1029.618	3582.70	0.0170	P	4.8
4	☐	2500.000	2452.993	8456.98	0.0394	P	3.8
5	☐	5000.000	4844.742	16288.10	0.0769	P	8.3
6	☐	10000.000	10055.085	32383.87	0.1588	P	1.8
7	☐	20000.000	20015.667	64617.32	0.3152	P	1.4
8	☐			121.11	0.0006	P	22.0

y = 1.5706E-005 * x + 8.3837E-004
R = 1.0000
DL = 19.71
BEC = 53.38

Weight: <None>
Min Conc: 0

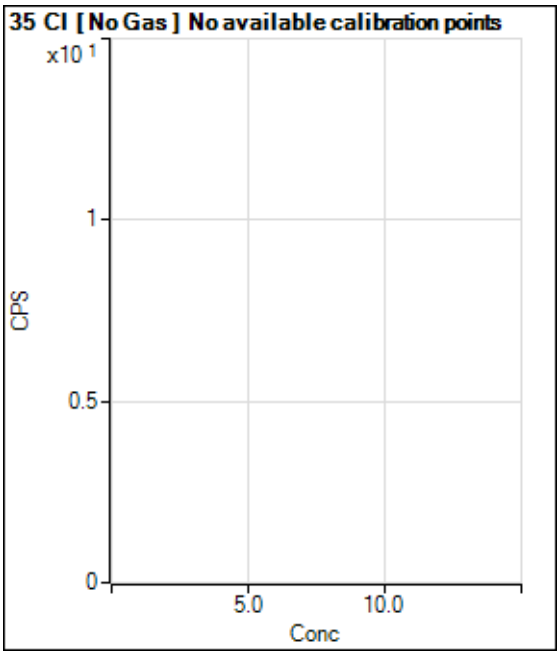
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-109.945	765499.79	0.0659	P	0.6
2	☐	0.000	109.945	777001.27	0.0673	P	0.4
3	☐	1000.000	1460.651	859542.39	0.0759	P	2.0
4	☐	2500.000	2954.281	958165.07	0.0854	A	2.3
5	☐	5000.000	4954.480	1085273.00	0.0981	A	0.4
6	☐	10000.000	9879.319	1421197.84	0.1294	A	0.5
7	☐	20000.000	19991.903	2102946.75	0.1937	A	1.1
8	☐			633217.21	0.0630	P	1.9

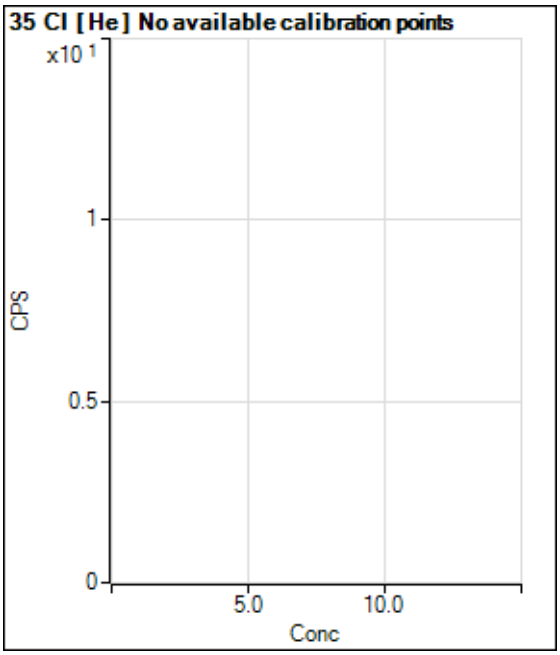
y = 6.3551E-006 * x + 0.0666
R = 0.9995
DL = 146.6
BEC = 1.049E+04

Weight: <None>
Min Conc: 0

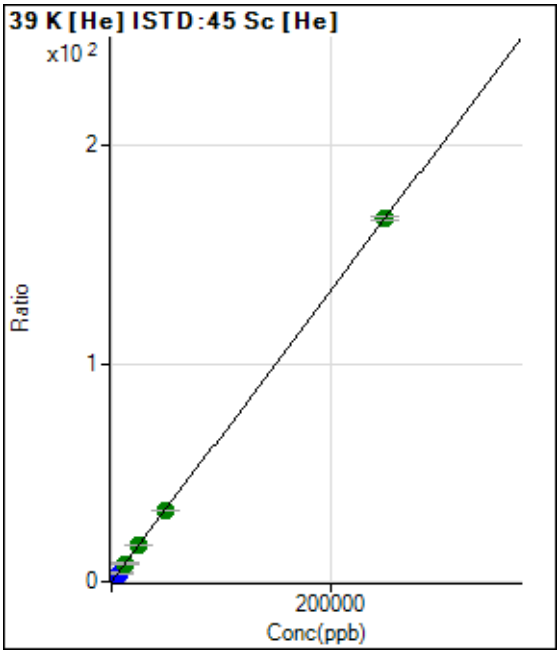


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			164371.30		P	0.6
2	☐			169056.43		P	0.7
3	☐			173424.87		P	0.7
4	☐			172547.87		P	0.3
5	☐			169774.86		P	0.4
6	☐			177453.35		P	0.9
7	☐			197486.92		P	1.1
8	☐			149658.93		P	0.7

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			595.57		P	10.0
2	☐			730.03		P	9.4
3	☐			613.35		P	5.9
4	☐			664.47		P	5.4
5	☐			683.36		P	2.4
6	☐			721.14		P	17.2
7	☐			855.59		P	4.1
8	☐			604.46		P	10.7

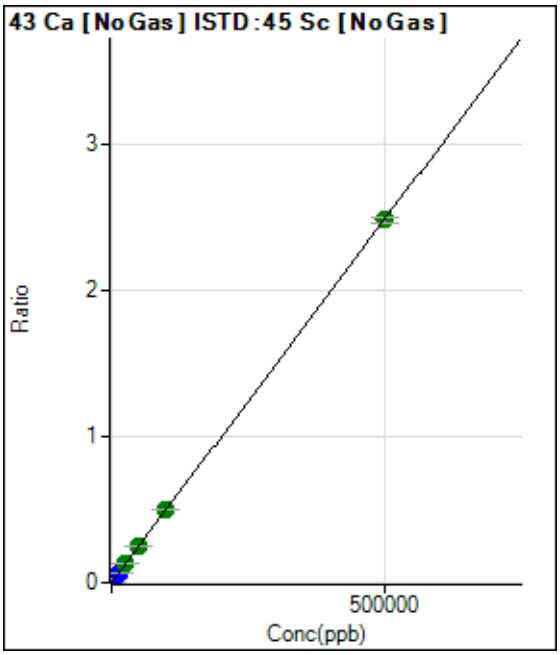


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12445.44	0.0572	P	1.4
2	☐	500.000	490.301	85691.15	0.3828	P	6.7
3	☐	2500.000	2458.271	355960.81	1.6899	P	0.7
4	☐	6250.000	5880.977	851433.16	3.9631	P	3.8
5	☐	12500.000	12280.289	1738766.95	8.2134	A	8.1
6	☐	25000.000	25179.521	3423084.43	16.7807	A	0.2
7	☐	50000.000	48831.957	6661000.53	32.4899	A	0.7
8	☐	250000.00	250236.30	32038924.24	166.2567	A	0.9

y = 6.6417E-004 * x + 0.0572
R = 1.0000
DL = 3.615
BEC = 86.07

Weight: <None>
Min Conc: 0

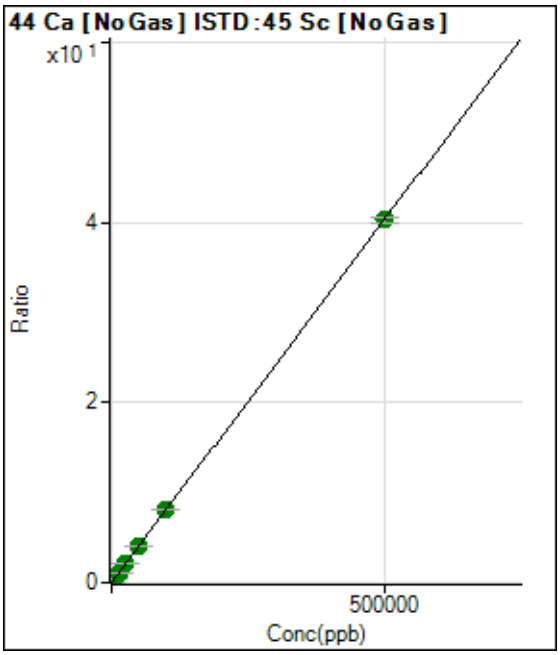
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2172.41	0.0002	P	4.0
2	☐	500.000	505.919	31201.69	0.0027	P	1.9
3	☐	5000.000	4975.564	282374.76	0.0249	P	1.7
4	☐	12500.000	12418.033	695162.60	0.0620	P	0.5
5	☐	25000.000	25800.824	1421822.77	0.1286	A	2.1
6	☐	50000.000	50921.977	2783904.61	0.2535	A	1.8
7	☐	100000.00	100991.41	5457333.60	0.5027	A	1.2
8	☐	500000.00	499671.76	24994533.24	2.4863	A	1.3

y = 4.9754E-006 * x + 1.8718E-004
R = 1.0000
DL = 4.56
BEC = 37.62

Weight: <None>
Min Conc: 0

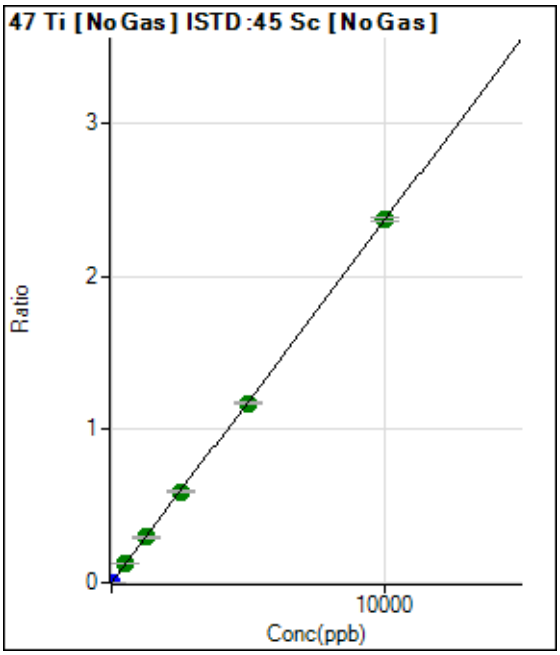


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55783.10	0.0048	P	1.2
2	☐	500.000	502.499	523455.29	0.0454	P	0.4
3	☐	5000.000	5156.984	4766512.67	0.4211	A	2.7
4	☐	12500.000	12666.767	11523605.80	1.0273	A	0.3
5	☐	25000.000	25385.378	22715034.38	2.0539	A	1.0
6	☐	50000.000	50323.629	44655754.34	4.0670	A	1.3
7	☐	100000.00	101010.96	88577615.35	8.1585	A	0.9
8	☐	500000.00	499740.43	405571033.9	40.3444	A	1.6

y = 8.0721E-005 * x + 0.0048
R = 1.0000
DL = 2.082
BEC = 59.54

Weight: <None>
Min Conc: 0

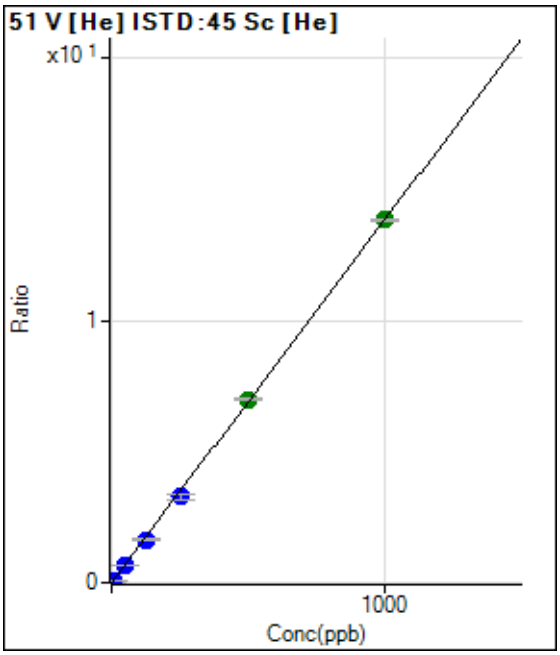
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.22	0.0000	P	23.7
2	☐	5.000	5.255	14535.23	0.0013	P	3.0
3	☐	500.000	515.164	1380152.02	0.1219	A	1.8
4	☐	1250.000	1250.612	3319560.92	0.2959	A	0.5
5	☐	2500.000	2521.014	6597093.03	0.5965	A	0.7
6	☐	5000.000	4955.381	12874400.37	1.1725	A	1.4
7	☐	10000.000	10016.221	25731472.39	2.3700	A	0.9
8	☐			3249.30	0.0003	P	1.4

y = 2.3662E-004 * x + 1.6546E-005
R = 1.0000
DL = 0.04977
BEC = 0.06993

Weight: <None>
Min Conc: 0

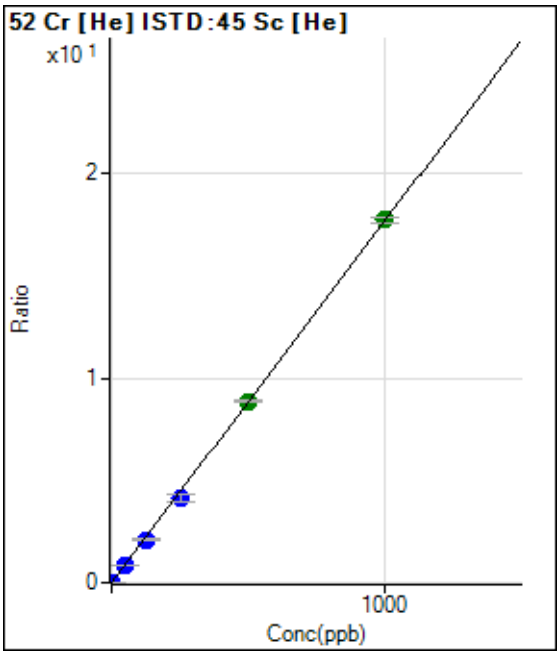


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.56	0.0001	P	66.9
2	☐	5.000	5.077	15732.05	0.0703	P	8.7
3	☐	50.000	48.903	142484.15	0.6764	P	0.9
4	☐	125.000	117.697	349641.11	1.6278	P	4.7
5	☐	250.000	237.332	695082.48	3.2824	P	7.5
6	☐	500.000	506.116	1427815.34	6.9996	A	1.2
7	☐	1000.000	1001.076	2838399.30	13.8447	A	0.8
8	☐			718.91	0.0037	P	10.7

y = 0.0138 * x + 1.1739E-004
R = 0.9999
DL = 0.01704
BEC = 0.008489

Weight: <None>
Min Conc: 0

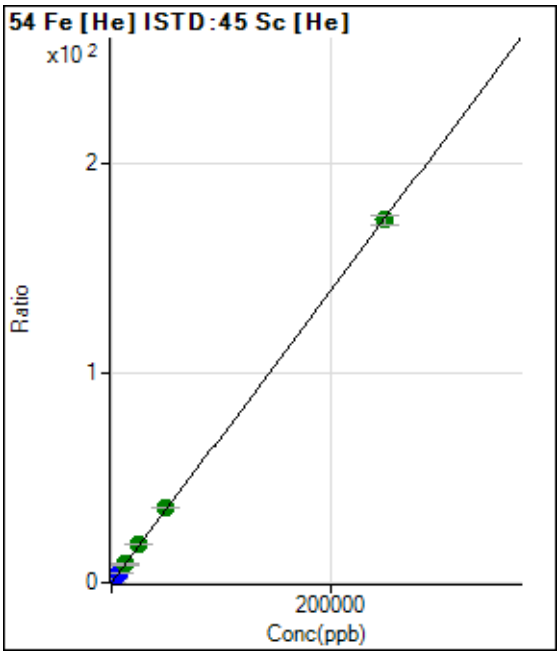
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	884.48	0.0041	P	4.9
2	☐	2.000	2.029	8932.87	0.0399	P	7.9
3	☐	50.000	49.170	183931.25	0.8732	P	0.7
4	☐	125.000	117.450	446803.17	2.0801	P	4.6
5	☐	250.000	235.035	880314.81	4.1586	P	8.2
6	☐	500.000	501.557	1809268.64	8.8697	A	1.5
7	☐	1000.000	1003.948	3638939.25	17.7501	A	1.3
8	☐			10850.87	0.0563	P	2.4

y = 0.0177 * x + 0.0041
R = 0.9999
DL = 0.03392
BEC = 0.2298

Weight: <None>
Min Conc: 0

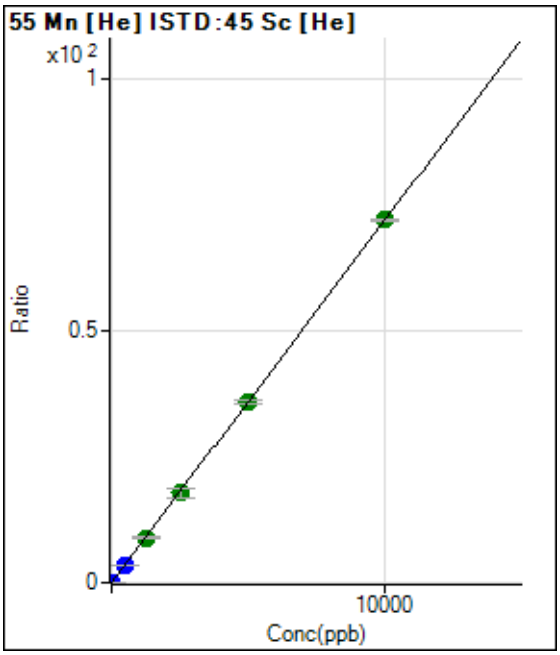


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	423.34	0.0019	P	1.6
2	☐	50.000	54.461	8888.39	0.0397	P	7.8
3	☐	2500.000	2647.916	387344.03	1.8388	P	0.6
4	☐	6250.000	6271.506	934892.25	4.3524	P	4.6
5	☐	12500.000	13001.621	1909931.19	9.0210	A	7.9
6	☐	25000.000	26435.971	3741155.46	18.3402	A	1.2
7	☐	50000.000	52038.529	7401166.00	36.1003	A	0.5
8	☐	250000.00	249421.59	33338620.06	173.0221	A	2.3

y = 6.9369E-004 * x + 0.0019
R = 1.0000
DL = 0.1318
BEC = 2.803

Weight: <None>
Min Conc: 0

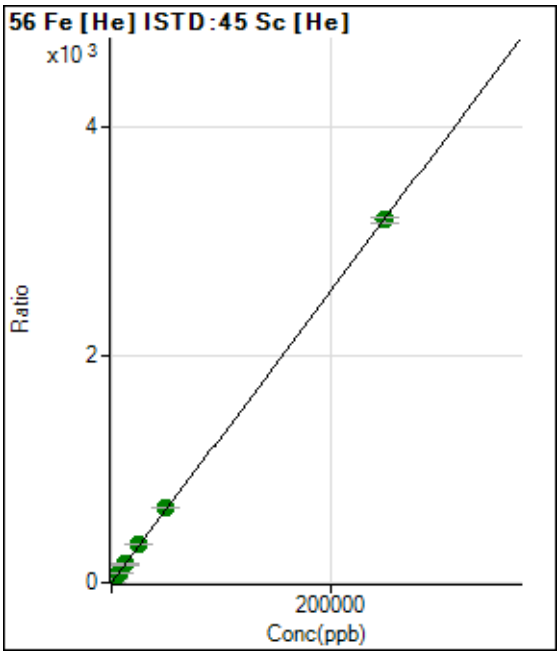
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	170.01	0.0008	P	12.2
2	☐	1.000	0.974	1750.13	0.0078	P	1.6
3	☐	500.000	498.601	755588.48	3.5871	P	1.1
4	☐	1250.000	1226.409	1894994.45	8.8221	A	4.5
5	☐	2500.000	2470.761	3760204.70	17.7726	A	9.2
6	☐	5000.000	4979.349	7305930.80	35.8165	A	1.7
7	☐	10000.000	10020.654	14777179.50	72.0778	A	0.3
8	☐			6347.02	0.0329	P	3.5

y = 0.0072 * x + 7.8087E-004
R = 1.0000
DL = 0.03973
BEC = 0.1086

Weight: <None>
Min Conc: 0

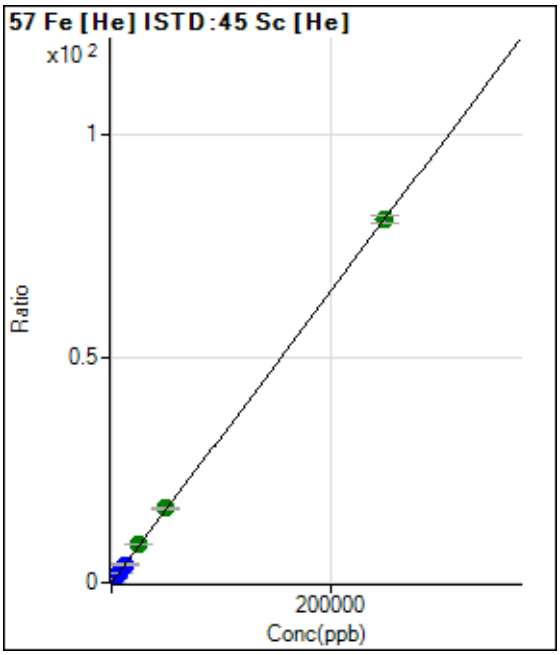


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5323.27	0.0245	P	2.9
2	☐	50.000	53.600	158640.78	0.7087	P	6.6
3	☐	2500.000	2643.497	7113253.09	33.7696	A	1.0
4	☐	6250.000	6322.582	17343413.91	80.7344	A	4.1
5	☐	12500.000	12718.263	34375219.49	162.3775	A	8.1
6	☐	25000.000	26173.526	68160248.99	334.1386	A	0.8
7	☐	50000.000	51456.789	134672341.3	656.8883	A	1.2
8	☐	250000.00	249577.12	613908439.7	3,185.963	A	1.8

y = 0.0128 * x + 0.0245
R = 1.0000
DL = 0.165
BEC = 1.915

Weight: <None>
Min Conc: 0

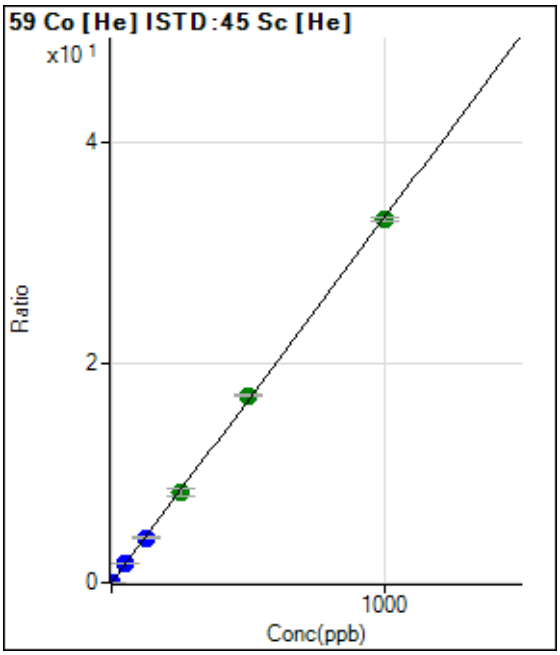
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	157.78	0.0007	P	10.0
2	☐	50.000	53.013	3998.38	0.0179	P	10.9
3	☐	2500.000	2564.119	175063.67	0.8311	P	0.8
4	☐	6250.000	6124.217	426168.63	1.9839	P	4.3
5	☐	12500.000	12176.272	835067.21	3.9438	P	7.7
6	☐	25000.000	26288.668	1736734.47	8.5138	A	1.1
7	☐	50000.000	50987.996	3385356.13	16.5123	A	0.2
8	☐	250000.00	249692.22	15580552.68	80.8591	A	2.0

y = 3.2383E-004 * x + 7.2474E-004
R = 1.0000
DL = 0.6712
BEC = 2.238

Weight: <None>
Min Conc: 0

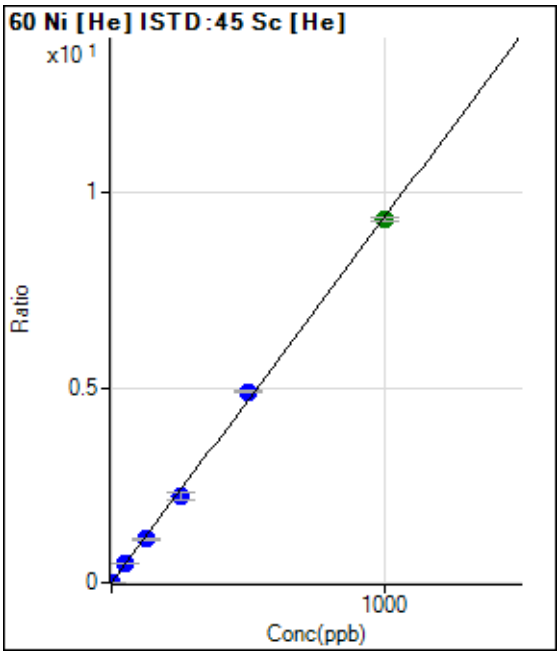


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.22	0.0005	P	13.1
2	☐	1.000	1.087	8187.98	0.0366	P	6.0
3	☐	50.000	50.966	356521.31	1.6926	P	1.1
4	☐	125.000	121.971	870110.76	4.0500	P	3.8
5	☐	250.000	249.294	1752152.56	8.2773	A	8.2
6	☐	500.000	513.510	3477996.47	17.0495	A	0.7
7	☐	1000.000	993.752	6764380.04	32.9940	A	1.0
8	☐			13555.44	0.0704	P	4.0

y = 0.0332 * x + 4.6951E-004
R = 0.9999
DL = 0.005561
BEC = 0.01414

Weight: <None>
Min Conc: 0

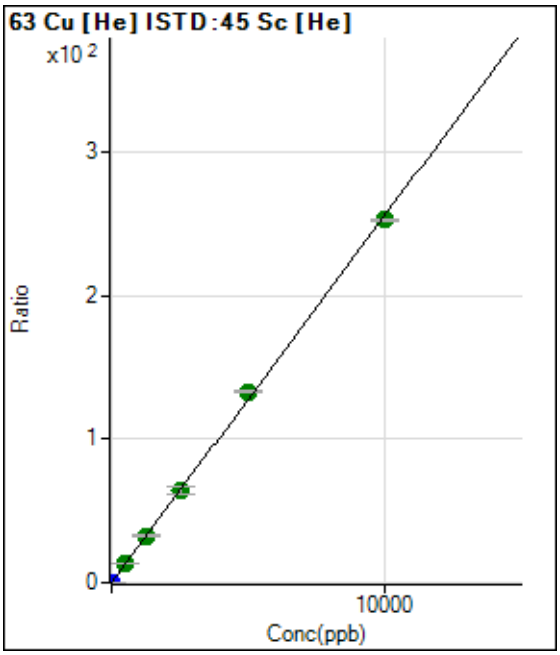
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	988.93	0.0045	P	5.8
2	☐	1.000	0.977	3064.80	0.0137	P	8.5
3	☐	50.000	50.568	100813.82	0.4786	P	1.3
4	☐	125.000	118.886	240398.06	1.1191	P	4.2
5	☐	250.000	237.060	471510.55	2.2269	P	7.8
6	☐	500.000	521.556	998330.44	4.8941	P	0.8
7	☐	1000.000	993.193	1909809.96	9.3156	A	1.0
8	☐			6771.68	0.0351	P	4.2

y = 0.0094 * x + 0.0045
R = 0.9996
DL = 0.08484
BEC = 0.4845

Weight: <None>
Min Conc: 0

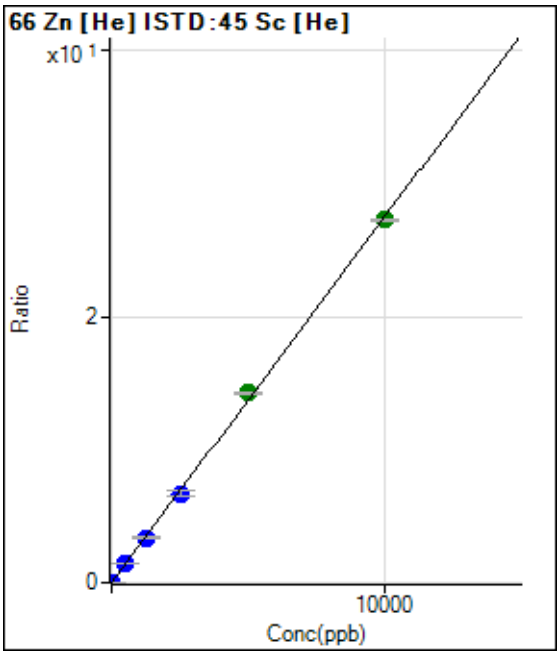


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2688.06	0.0123	P	4.9
2	☐	2.000	2.155	15090.35	0.0674	P	7.1
3	☐	500.000	539.718	2908450.62	13.8083	A	1.7
4	☐	1250.000	1275.037	7003635.45	32.6041	A	4.5
5	☐	2500.000	2513.444	13611420.49	64.2595	A	7.0
6	☐	5000.000	5202.116	27128132.93	132.9858	A	0.8
7	☐	10000.000	9890.465	51834752.00	252.8267	A	0.3
8	☐			10973.21	0.0570	P	4.3

y = 0.0256 * x + 0.0123
R = 0.9997
DL = 0.0709
BEC = 0.483

Weight: <None>
Min Conc: 0

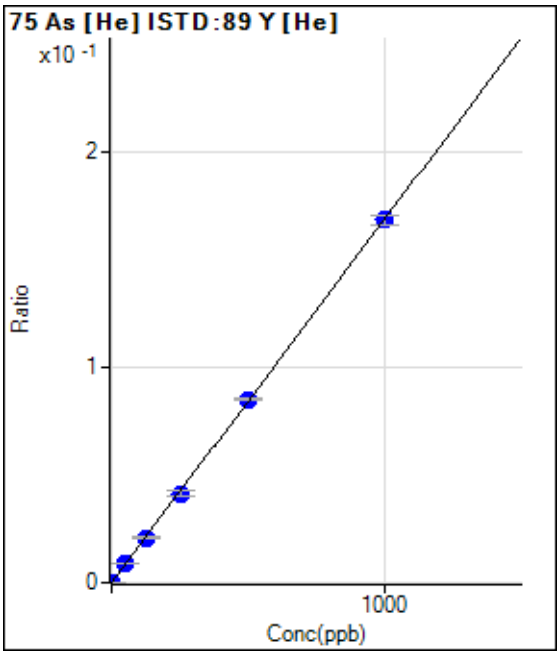
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	332.23	0.0015	P	13.9
2	☐	2.000	5.054	3446.01	0.0154	P	8.2
3	☐	500.000	513.575	297395.98	1.4119	P	0.6
4	☐	1250.000	1224.939	722882.45	3.3653	P	4.5
5	☐	2500.000	2441.654	1420092.34	6.7065	P	7.7
6	☐	5000.000	5184.239	2904388.98	14.2379	A	0.3
7	☐	10000.000	9924.920	5588058.74	27.2563	A	0.5
8	☐			3039.24	0.0158	P	5.4

y = 0.0027 * x + 0.0015
R = 0.9997
DL = 0.2312
BEC = 0.5557

Weight: <None>
Min Conc: 0

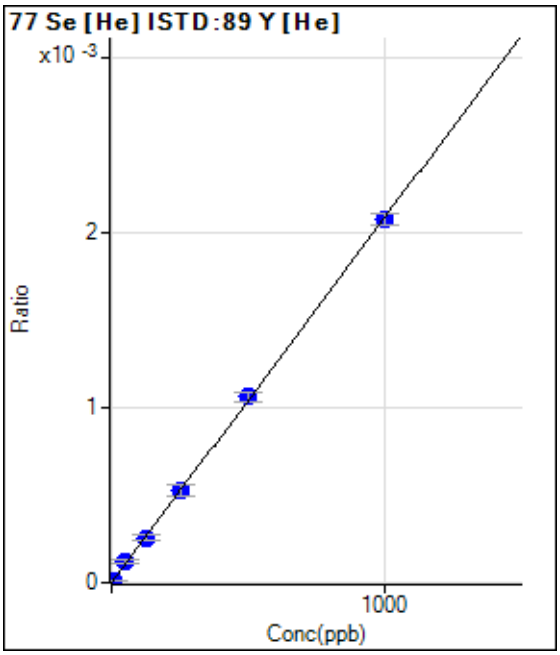


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.45	0.0000	P	26.6
2	☐	1.000	1.094	390.01	0.0002	P	23.1
3	☐	50.000	51.802	16820.10	0.0087	P	0.6
4	☐	125.000	123.993	40896.97	0.0209	P	5.0
5	☐	250.000	245.984	80376.21	0.0415	P	6.3
6	☐	500.000	504.745	160763.20	0.0851	P	1.2
7	☐	1000.000	998.667	317696.52	0.1683	P	2.4
8	☐			180.00	0.0001	P	11.8

y = 1.6852E-004 * x + 7.2162E-006
R = 1.0000
DL = 0.03414
BEC = 0.04282

Weight: <None>
Min Conc: 0

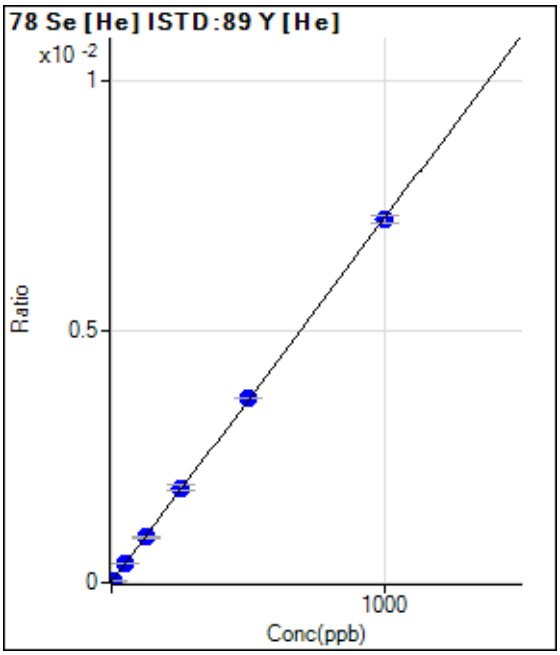
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.174	22.22	0.0000	P	38.8
3	☐	50.000	55.675	223.34	0.0001	P	18.8
4	☐	125.000	123.869	505.57	0.0003	P	16.4
5	☐	250.000	251.151	1012.27	0.0005	P	12.2
6	☐	500.000	509.751	2006.83	0.0011	P	4.6
7	☐	1000.000	994.693	3912.81	0.0021	P	3.1
8	☐			3.33	0.0000	P	101.0

y = 2.0841E-006 * x + 0.0000E+000
R = 0.9999
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

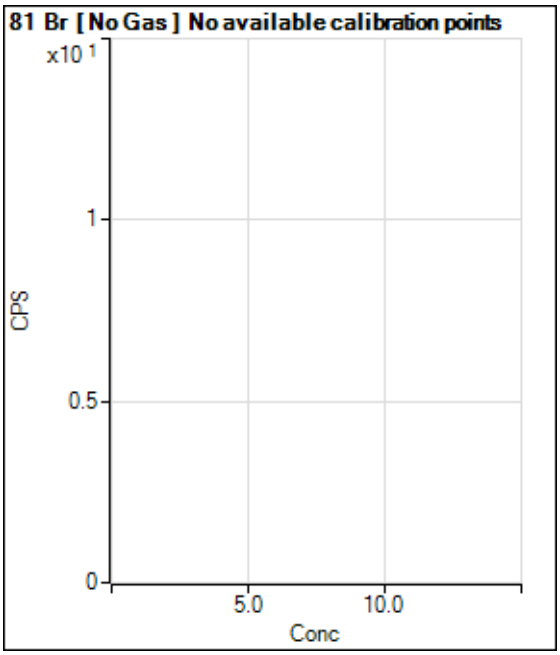


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	41.7
2	☐	5.000	5.614	96.67	0.0000	P	18.0
3	☐	50.000	51.726	733.36	0.0004	P	6.1
4	☐	125.000	124.182	1772.36	0.0009	P	4.4
5	☐	250.000	260.128	3662.73	0.0019	P	7.7
6	☐	500.000	504.668	6921.77	0.0037	P	0.3
7	☐	1000.000	995.147	13620.01	0.0072	P	2.1
8	☐			13.33	0.0000	P	73.7

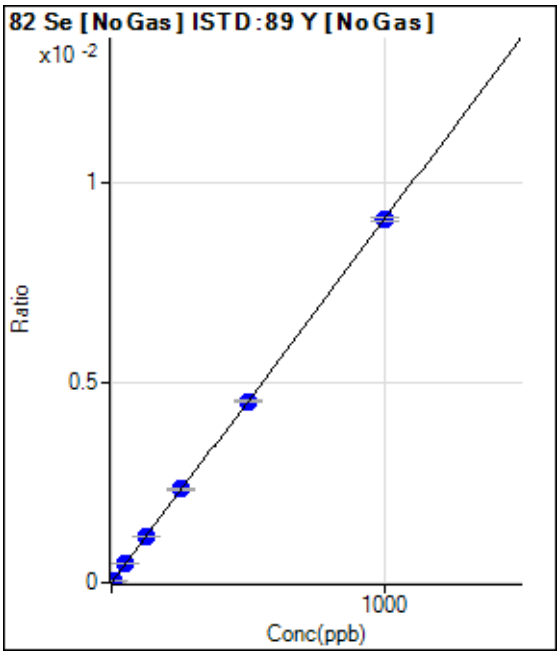
y = 7.2440E-006 * x + 6.1067E-006
R = 0.9999
DL = 1.055
BEC = 0.843

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4298.50		P	2.2
2	☐			4171.78		P	1.0
3	☐			4212.89		P	1.1
4	☐			4012.84		P	2.2
5	☐			3797.22		P	4.0
6	☐			3712.76		P	2.4
7	☐			3973.95		P	6.1
8	☐			3955.05		P	6.1

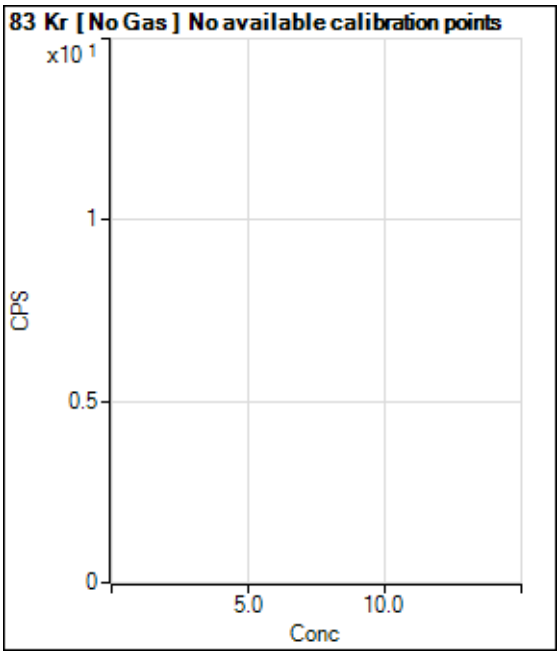


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-1.11	0.0000	P	-4332.
2	☐	5.000	5.440	1430.12	0.0000	P	6.1
3	☐	50.000	52.731	13514.63	0.0005	P	2.0
4	☐	125.000	128.299	32551.74	0.0012	P	1.5
5	☐	250.000	258.115	64822.28	0.0023	P	1.6
6	☐	500.000	498.380	125721.23	0.0045	P	0.8
7	☐	1000.000	998.230	251512.20	0.0091	P	1.2
8	☐			-12.23	0.0000	P	-305.0

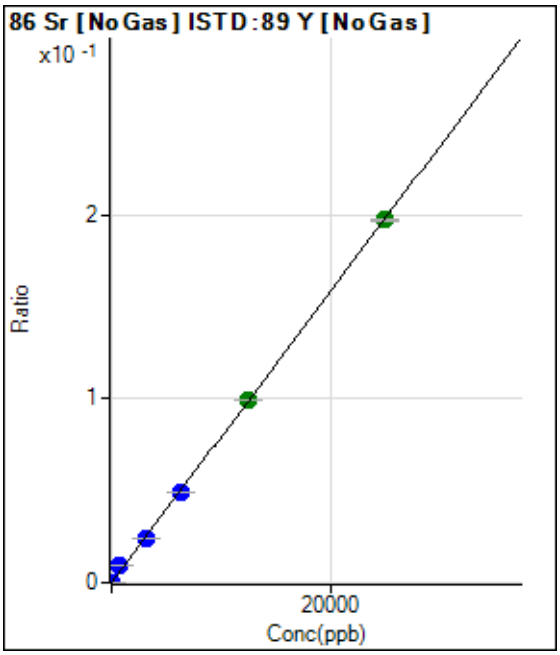
y = 9.0845E-006 * x - 3.4397E-008
R = 1.0000
DL = 0.4921
BEC = -0.003786

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			274.45		P	4.6
2	☐			275.56		P	8.6
3	☐			284.45		P	2.4
4	☐			266.67		P	13.5
5	☐			267.78		P	14.4
6	☐			301.12		P	12.6
7	☐			286.67		P	7.1
8	☐			315.57		P	10.6

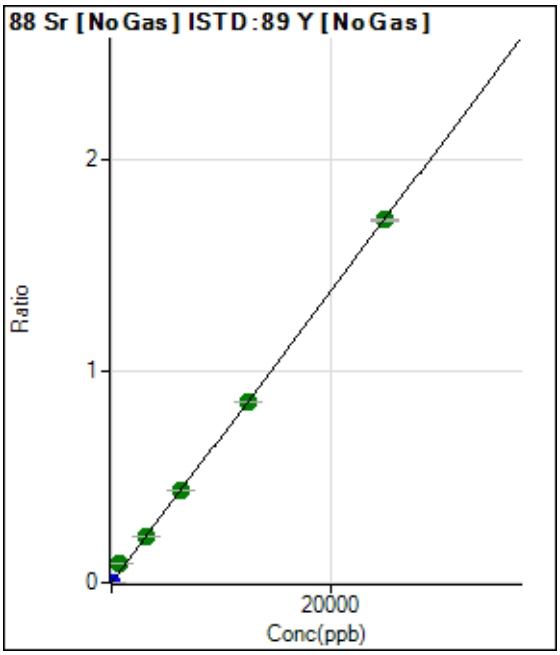


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	623.35	0.0000	P	6.4
2	☐	1.000	25.741	6512.69	0.0002	P	2.1
3	☐	625.000	1231.459	275394.98	0.0098	P	1.4
4	☐	3125.000	3070.481	678797.65	0.0243	P	0.2
5	☐	6250.000	6191.874	1354341.93	0.0490	P	1.1
6	☐	12500.000	12580.260	2763362.15	0.0995	A	0.8
7	☐	25000.000	24966.054	5477034.09	0.1975	A	0.6
8	☐			16137.20	0.0006	P	1.1

y = 7.9085E-006 * x + 2.1400E-005
R = 0.9997
DL = 0.523
BEC = 2.706

Weight: <None>
Min Conc: 0

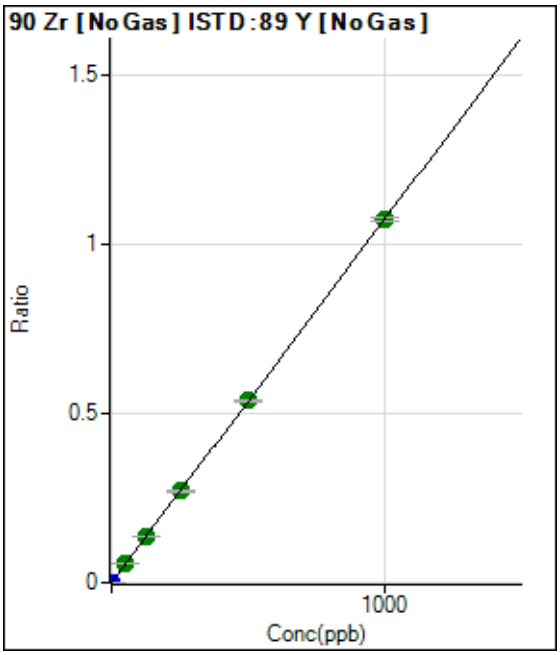
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1213.40	0.0000	P	1.8
2	☐	1.000	25.594	52029.69	0.0018	P	0.5
3	☐	625.000	1293.375	2504447.25	0.0888	A	1.1
4	☐	3125.000	3160.981	6056572.13	0.2169	A	0.5
5	☐	6250.000	6305.104	11957059.41	0.4325	A	0.2
6	☐	12500.000	12482.103	23776606.87	0.8562	A	0.2
7	☐	25000.000	24973.964	47513441.51	1.7130	A	0.3
8	☐			140102.43	0.0054	P	0.2

y = 6.8591E-005 * x + 4.1656E-005
R = 0.9997
DL = 0.03218
BEC = 0.6073

Weight: <None>
Min Conc: 0

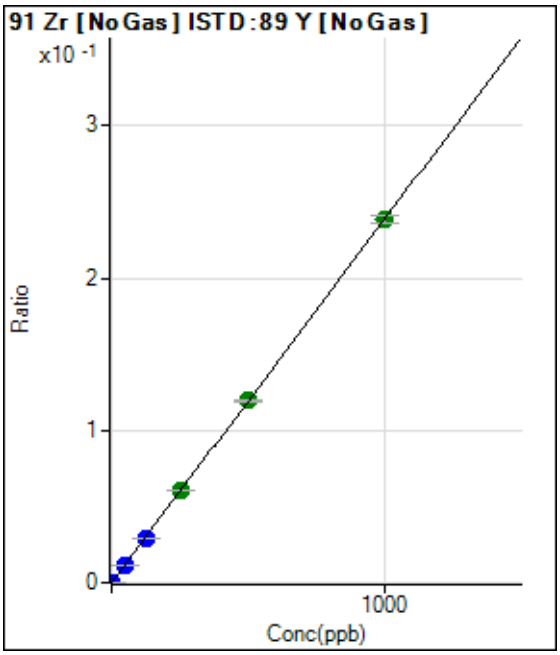


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1012.27	0.0000	P	11.6
2	☐	1.000	1.008	32274.02	0.0011	P	2.1
3	☐	50.000	51.419	1556113.13	0.0551	A	1.1
4	☐	125.000	128.479	3847134.91	0.1377	A	0.3
5	☐	250.000	251.673	7458600.51	0.2698	A	0.3
6	☐	500.000	500.640	14901822.28	0.5367	A	1.1
7	☐	1000.000	998.756	29692303.72	1.0706	A	0.9
8	☐			46990.08	0.0018	P	0.7

y = 0.0011 * x + 3.4754E-005
R = 1.0000
DL = 0.01128
BEC = 0.03242

Weight: <None>
Min Conc: 0

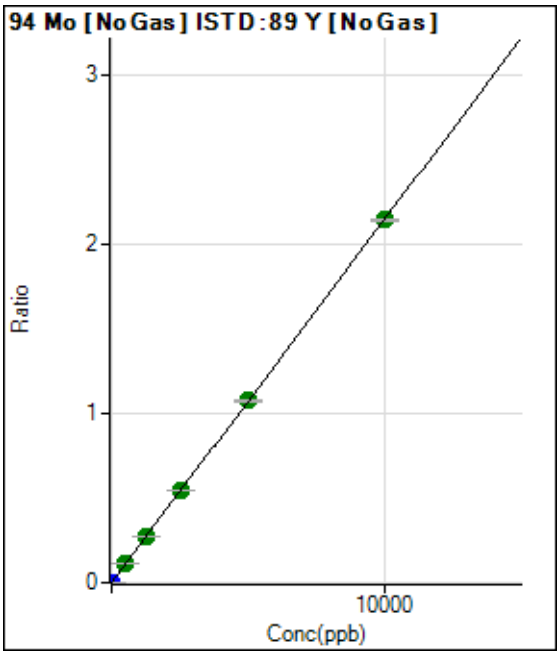
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	198.89	0.0000	P	11.0
2	☐	1.000	0.982	6980.70	0.0002	P	2.6
3	☐	50.000	48.531	326971.08	0.0116	P	2.2
4	☐	125.000	121.407	809452.51	0.0290	P	0.2
5	☐	250.000	255.841	1688243.98	0.0611	A	0.3
6	☐	500.000	501.152	3321472.83	0.1196	A	1.0
7	☐	1000.000	998.486	6609171.36	0.2383	A	2.3
8	☐			10254.97	0.0004	P	3.1

y = 2.3867E-004 * x + 6.8275E-006
R = 1.0000
DL = 0.009404
BEC = 0.02861

Weight: <None>
Min Conc: 0

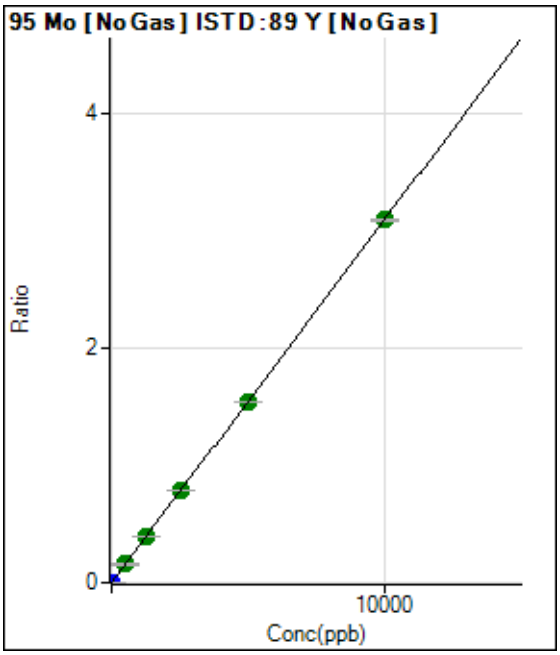


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	415.57	0.0000	P	10.1
2	☐	5.000	5.992	37693.23	0.0013	P	2.0
3	☐	500.000	509.268	3088390.16	0.1095	A	2.1
4	☐	1250.000	1259.313	7559385.51	0.2707	A	0.3
5	☐	2500.000	2531.961	15044110.61	0.5442	A	0.6
6	☐	5000.000	5006.004	29875244.83	1.0759	A	1.2
7	☐	10000.000	9987.380	59536051.33	2.1465	A	0.3
8	☐			41332.30	0.0016	P	1.2

y = 2.1492E-004 * x + 1.4267E-005
R = 1.0000
DL = 0.02012
BEC = 0.06638

Weight: <None>
Min Conc: 0

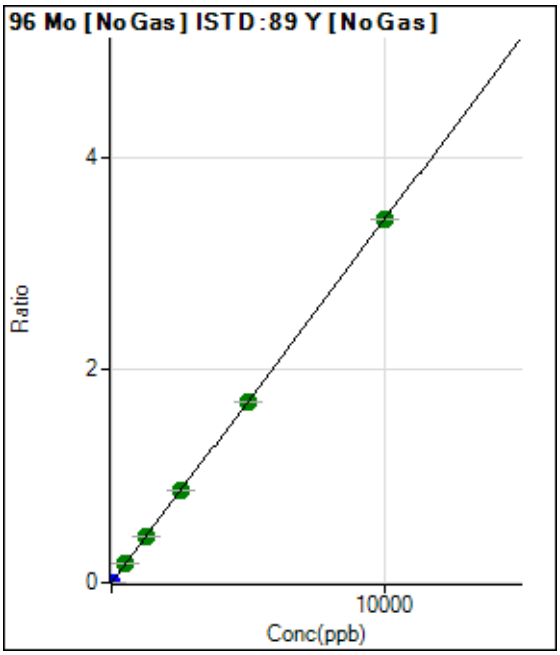
Reviewed By:kareem
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.78	0.0000	P	13.4
2	☐	5.000	5.022	45146.42	0.0016	P	1.8
3	☐	500.000	508.578	4441610.63	0.1574	A	2.1
4	☐	1250.000	1259.048	10884913.24	0.3897	A	1.2
5	☐	2500.000	2546.053	21788147.59	0.7881	A	0.6
6	☐	5000.000	4979.857	42803466.31	1.5415	A	1.0
7	☐	10000.000	9996.998	85828205.95	3.0945	A	0.8
8	☐			42130.32	0.0016	P	0.9

y = 3.0954E-004 * x + 5.0720E-006
R = 1.0000
DL = 0.0066
BEC = 0.01639

Weight: <None>
Min Conc: 0

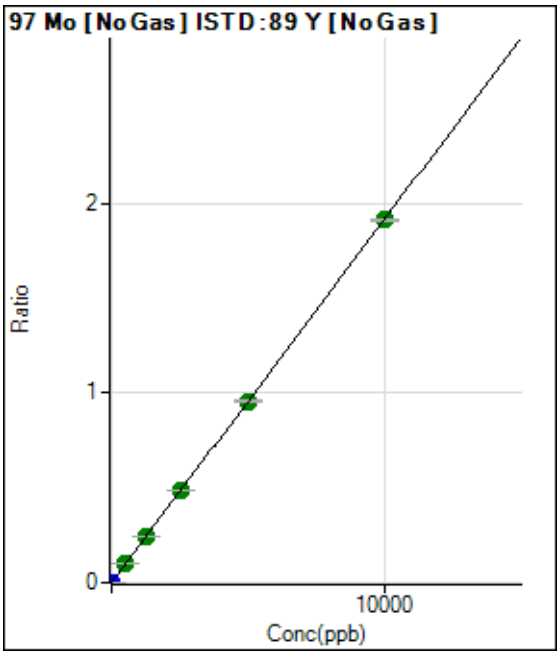


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	230.00	0.0000	P	6.9
2	☐	5.000	5.103	50625.23	0.0017	P	1.4
3	☐	500.000	514.153	4948223.78	0.1754	A	2.5
4	☐	1250.000	1263.413	12036936.62	0.4310	A	0.9
5	☐	2500.000	2559.800	24140739.92	0.8732	A	0.6
6	☐	5000.000	4983.067	47202250.96	1.6998	A	0.6
7	☐	10000.000	9991.132	94531001.92	3.4082	A	0.2
8	☐			48769.87	0.0019	P	2.7

y = 3.4112E-004 * x + 7.8951E-006
R = 1.0000
DL = 0.00477
BEC = 0.02314

Weight: <None>
Min Conc: 0

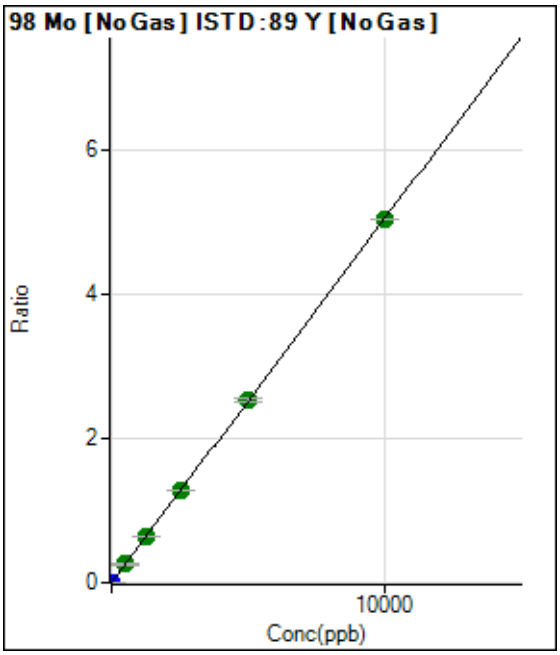
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.45	0.0000	P	3.8
2	☐	5.000	5.104	28396.88	0.0010	P	1.7
3	☐	500.000	512.960	2770801.31	0.0982	A	2.9
4	☐	1250.000	1270.487	6794045.80	0.2433	A	0.7
5	☐	2500.000	2554.352	13521252.44	0.4891	A	0.8
6	☐	5000.000	4998.388	26577231.83	0.9570	A	0.1
7	☐	10000.000	9984.009	53023161.99	1.9116	A	0.5
8	☐			26352.85	0.0010	P	2.5

y = 1.9147E-004 * x + 3.5860E-006
R = 1.0000
DL = 0.002137
BEC = 0.01873

Weight: <None>
Min Conc: 0

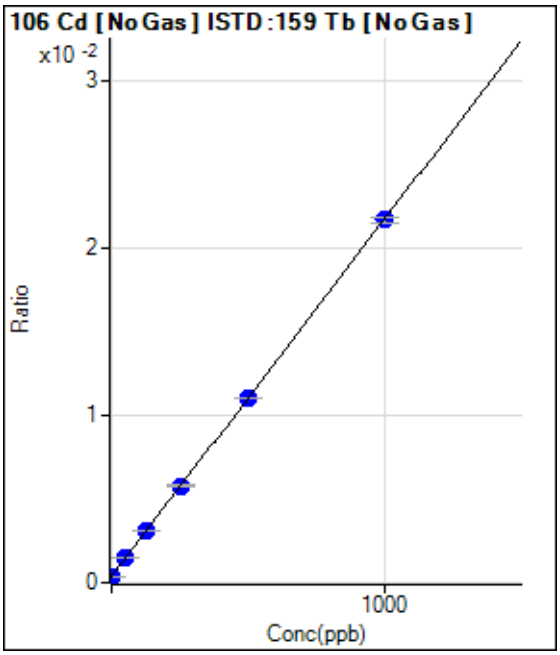


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	248.89	0.0000	P	23.3
2	☐	5.000	5.044	74020.30	0.0026	P	2.2
3	☐	500.000	507.323	7231869.54	0.2563	A	2.2
4	☐	1250.000	1255.436	17715587.93	0.6343	A	1.0
5	☐	2500.000	2553.525	35667406.69	1.2902	A	0.4
6	☐	5000.000	5019.232	70414303.95	2.5360	A	1.7
7	☐	10000.000	9975.957	139802240.1	5.0403	A	0.1
8	☐			66992.77	0.0026	P	1.4

y = 5.0525E-004 * x + 8.5405E-006
R = 1.0000
DL = 0.01182
BEC = 0.0169

Weight: <None>
Min Conc: 0

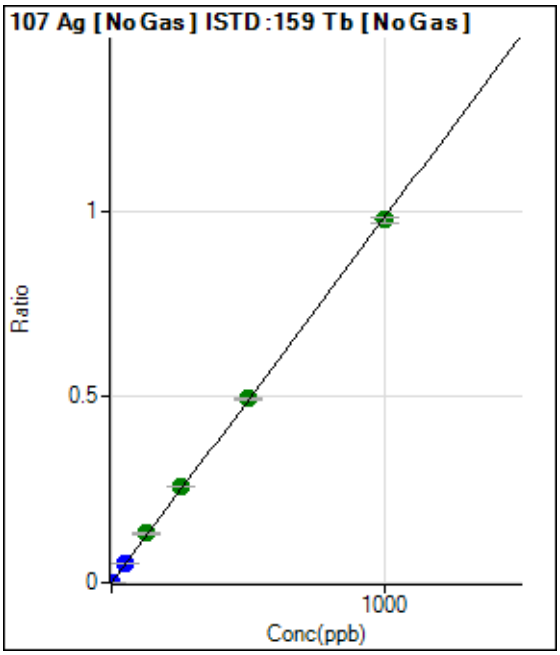
Reviewed By:kareem
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8262.55	0.0004	P	1.7
2	☐	1.000	1.428	8730.62	0.0004	P	0.2
3	☐	50.000	54.332	33110.83	0.0015	P	2.1
4	☐	125.000	129.704	68442.99	0.0031	P	1.0
5	☐	250.000	254.277	127461.40	0.0058	P	0.8
6	☐	500.000	500.211	241481.02	0.0111	P	0.6
7	☐	1000.000	998.020	473675.67	0.0217	P	1.7
8	☐			7320.91	0.0004	P	1.9

y = 2.1388E-005 * x + 3.7039E-004
R = 1.0000
DL = 0.895
BEC = 17.32

Weight: <None>
Min Conc: 0

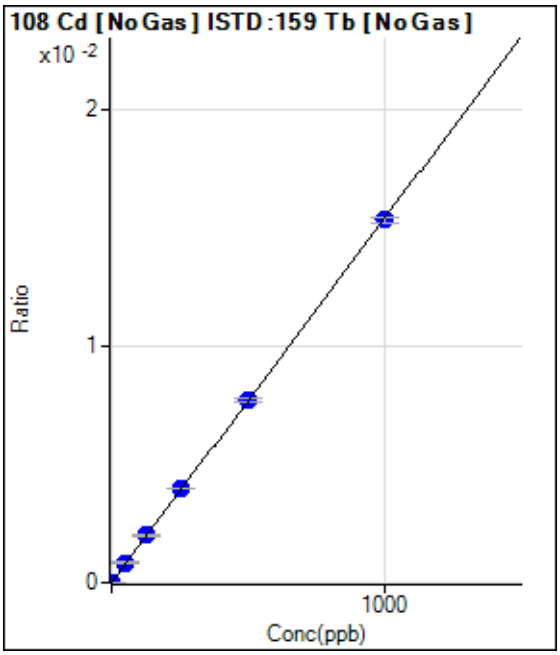


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0000	P	11.9
2	☐	1.000	1.058	22801.15	0.0010	P	2.1
3	☐	50.000	52.490	1113344.65	0.0515	P	2.5
4	☐	125.000	135.245	2889538.43	0.1328	A	1.7
5	☐	250.000	263.304	5670889.57	0.2585	A	1.4
6	☐	500.000	503.061	10772329.28	0.4938	A	1.2
7	☐	1000.000	993.738	21276313.71	0.9754	A	1.5
8	☐			3792.79	0.0002	P	6.3

y = 9.8155E-004 * x + 8.5148E-006
R = 0.9999
DL = 0.003087
BEC = 0.008675

Weight: <None>
Min Conc: 0

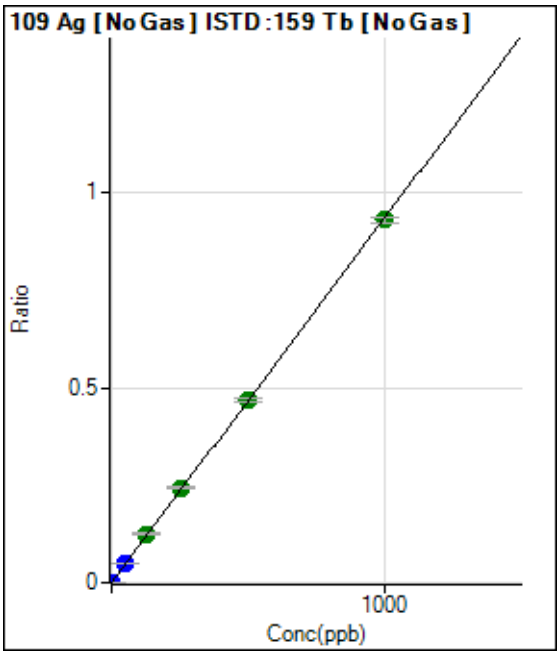
Reviewed By:kareem
On:2/11/2025 5:08:19 PM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	48.0
2	☐	1.000	1.137	402.23	0.0000	P	10.9
3	☐	50.000	54.657	18222.13	0.0008	P	4.0
4	☐	125.000	129.982	43630.99	0.0020	P	1.4
5	☐	250.000	258.667	87511.08	0.0040	P	0.8
6	☐	500.000	501.585	168694.72	0.0077	P	1.7
7	☐	1000.000	996.185	334974.63	0.0154	P	1.4
8	☐			231.11	0.0000	P	7.7

y = 1.5415E-005 * x + 9.4555E-007
R = 1.0000
DL = 0.0883
BEC = 0.06134

Weight: <None>
Min Conc: 0

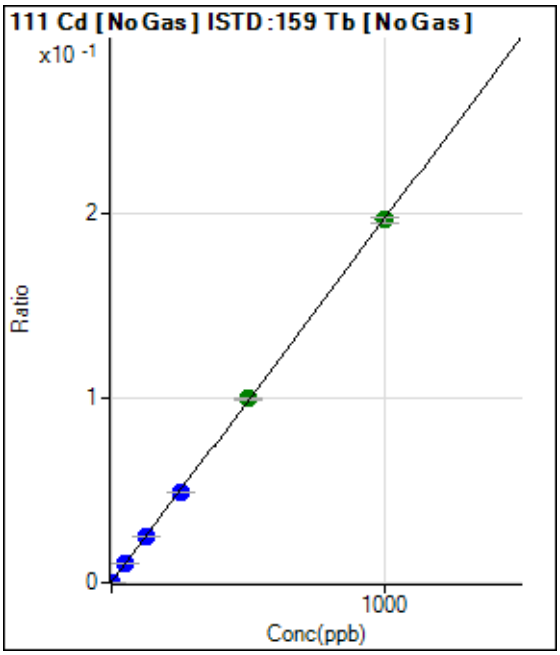


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0000	P	16.8
2	☐	1.000	1.067	21778.41	0.0010	P	1.2
3	☐	50.000	52.807	1066664.51	0.0494	P	2.3
4	☐	125.000	133.351	2713297.93	0.1247	A	2.2
5	☐	250.000	260.169	5336200.86	0.2432	A	2.2
6	☐	500.000	501.671	10230867.07	0.4690	A	1.4
7	☐	1000.000	995.438	20297647.89	0.9305	A	1.6
8	☐			3363.78	0.0002	P	4.3

y = 9.3481E-004 * x + 2.8896E-006
R = 0.9999
DL = 0.00156
BEC = 0.003091

Weight: <None>
Min Conc: 0

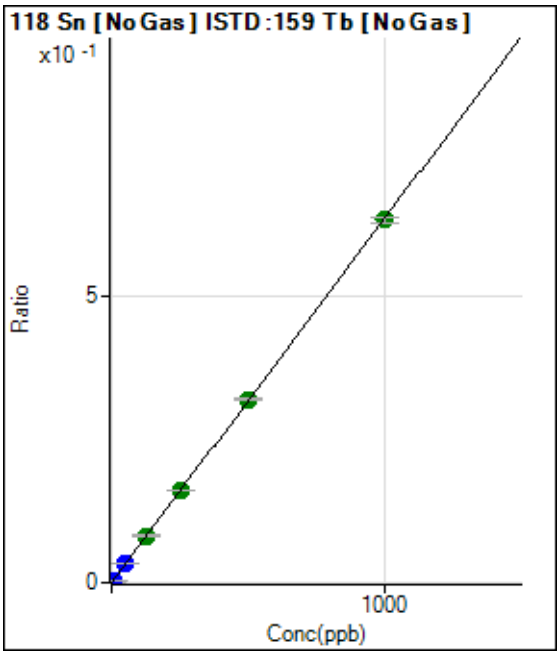
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5787.89	0.0003	P	1.5
2	☐	1.000	1.169	10650.76	0.0005	P	1.0
3	☐	50.000	51.874	225805.52	0.0105	P	2.7
4	☐	125.000	126.337	545943.77	0.0251	P	0.3
5	☐	250.000	246.545	1068541.43	0.0487	P	1.2
6	☐	500.000	506.520	2176786.04	0.0998	A	1.0
7	☐	1000.000	997.343	4279864.11	0.1962	A	1.6
8	☐			5546.20	0.0003	P	2.3

y = 1.9647E-004 * x + 2.5945E-004
R = 1.0000
DL = 0.06084
BEC = 1.321

Weight: <None>
Min Conc: 0

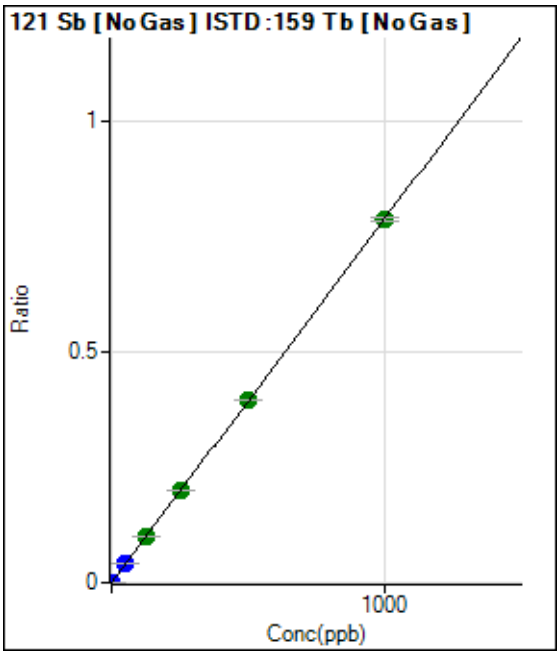


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3422.69	0.0002	P	0.4
2	☐	5.000	5.359	77382.73	0.0036	P	0.8
3	☐	50.000	50.916	701293.45	0.0325	P	2.3
4	☐	125.000	128.931	1783864.31	0.0820	A	1.0
5	☐	250.000	255.109	3555103.11	0.1620	A	0.2
6	☐	500.000	503.031	6966170.45	0.3193	A	0.6
7	☐	1000.000	996.669	13796687.99	0.6325	A	1.5
8	☐			3840.58	0.0002	P	7.3

y = 6.3447E-004 * x + 1.5343E-004
R = 1.0000
DL = 0.002944
BEC = 0.2418

Weight: <None>
Min Conc: 0

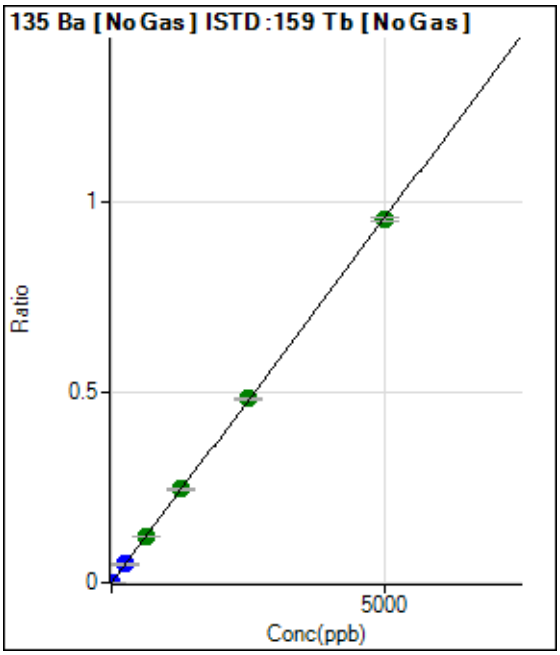
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	21.6
2	☐	2.000	2.147	36890.87	0.0017	P	0.8
3	☐	50.000	50.880	865823.47	0.0401	P	1.8
4	☐	125.000	127.073	2178134.58	0.1001	A	1.0
5	☐	250.000	254.258	4393554.28	0.2002	A	0.4
6	☐	500.000	501.350	8613410.08	0.3948	A	0.4
7	☐	1000.000	997.957	17142500.02	0.7859	A	0.9
8	☐			15439.93	0.0008	P	2.1

y = 7.8748E-004 * x + 3.5355E-006
R = 1.0000
DL = 0.002905
BEC = 0.00449

Weight: <None>
Min Conc: 0

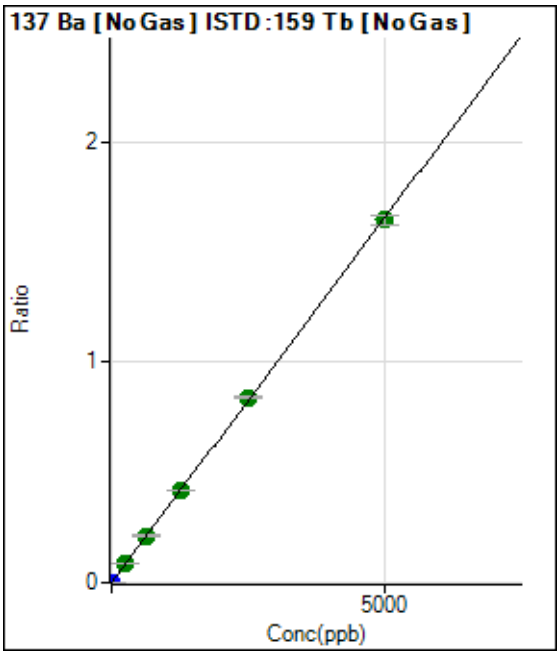


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	711.14	0.0000	P	1.4
2	☐	10.000	10.401	44155.06	0.0020	P	0.2
3	☐	250.000	252.073	1045735.04	0.0484	P	2.4
4	☐	625.000	641.109	2678276.63	0.1230	A	1.1
5	☐	1250.000	1282.618	5401161.34	0.2461	A	0.7
6	☐	2500.000	2527.861	10583166.65	0.4851	A	0.8
7	☐	5000.000	4975.797	20827210.11	0.9548	A	0.9
8	☐			7377.62	0.0004	P	1.1

y = 1.9188E-004 * x + 3.1880E-005
R = 1.0000
DL = 0.006789
BEC = 0.1661

Weight: <None>
Min Conc: 0

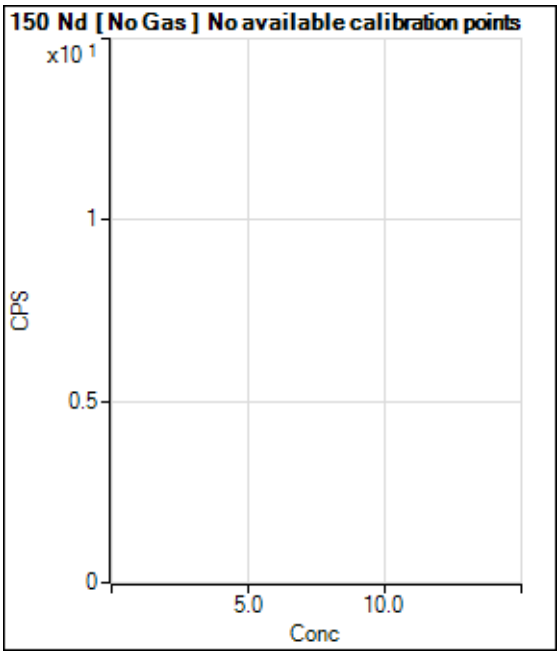
Reviewed By:kareem
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1203.40	0.0001	P	8.2
2	☐	10.000	10.514	76888.95	0.0035	P	0.5
3	☐	250.000	258.589	1848939.02	0.0856	A	2.0
4	☐	625.000	644.831	4642698.13	0.2133	A	1.5
5	☐	1250.000	1265.129	9181259.66	0.4184	A	1.3
6	☐	2500.000	2536.561	18302594.03	0.8389	A	0.6
7	☐	5000.000	4975.028	35887107.80	1.6453	A	2.4
8	☐			12744.98	0.0006	P	2.9

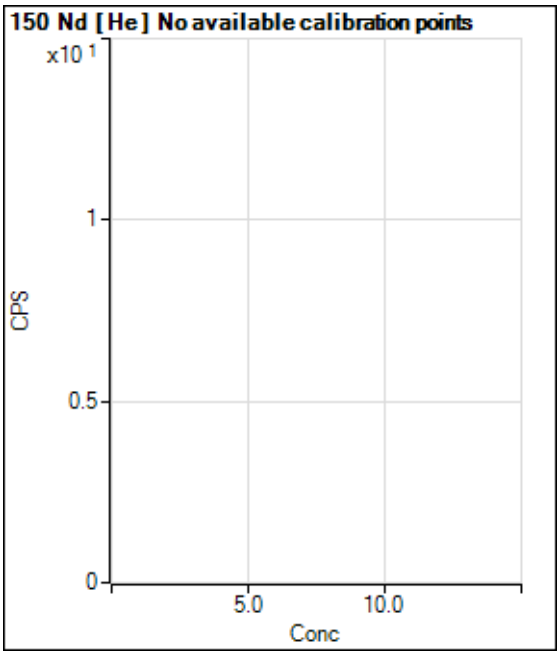
y = 3.3071E-004 * x + 5.3933E-005
R = 1.0000
DL = 0.04023
BEC = 0.1631

Weight: <None>
Min Conc: 0

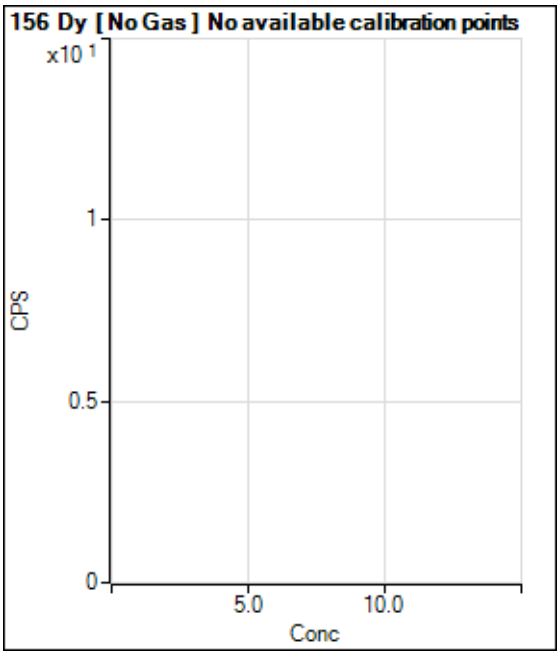


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	50.0
2	☐			14.44		P	58.1
3	☐			72.22		P	17.5
4	☐			176.67		P	3.3
5	☐			327.78		P	3.6
6	☐			562.24		P	6.0
7	☐			1245.63		P	1.5
8	☐			330.01		P	5.6

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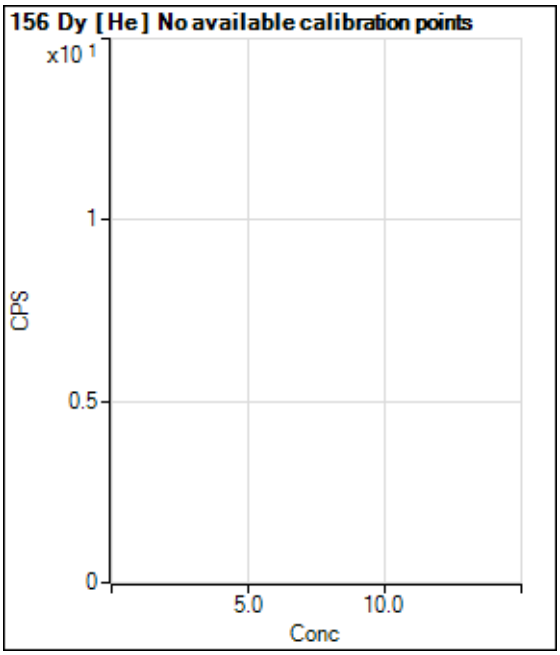


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.1
2	☐			5.56		P	91.6
3	☐			3.33		P	173.2
4	☐			4.45		P	86.6
5	☐			14.44		P	35.3
6	☐			26.67		P	0.0
7	☐			47.78		P	22.4
8	☐			88.89		P	18.9

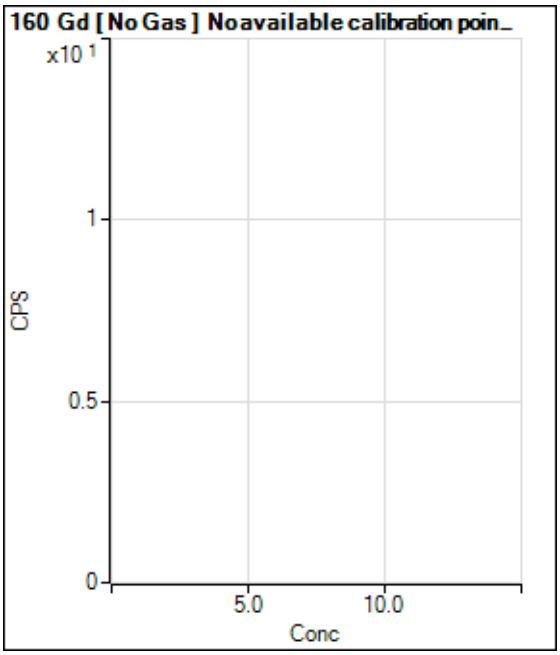


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			61.11		P	36.3
2	☐			61.11		P	24.6
3	☐			72.22		P	7.0
4	☐			97.78		P	7.1
5	☐			137.78		P	14.6
6	☐			211.12		P	11.4
7	☐			425.57		P	1.6
8	☐			693.36		P	3.8

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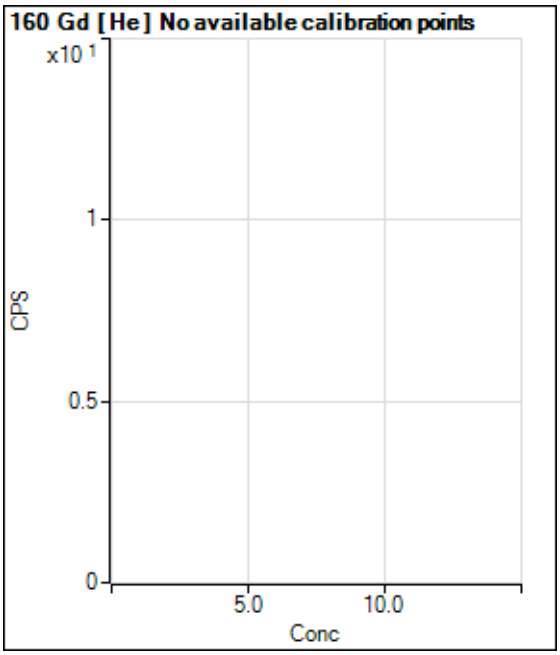


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			5.56		P	91.6
3	☐			10.00		P	66.7
4	☐			8.89		P	43.3
5	☐			22.22		P	56.8
6	☐			26.67		P	62.5
7	☐			46.67		P	24.7
8	☐			184.45		P	10.3

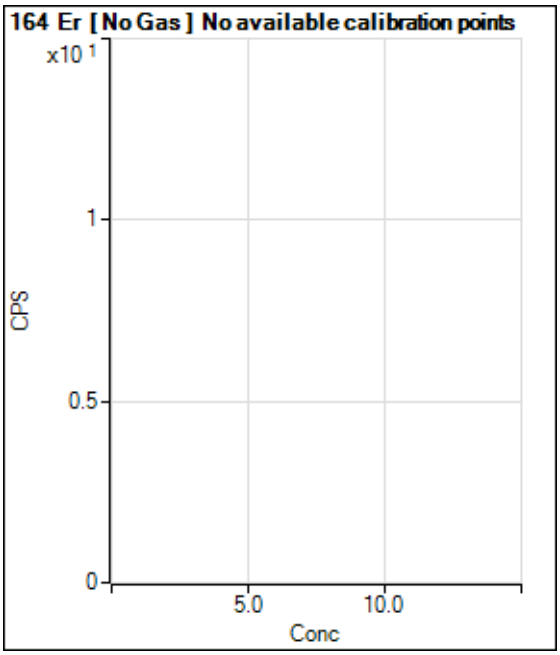


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			137.78		P	22.9
2	☐			144.45		P	22.8
3	☐			145.56		P	13.4
4	☐			141.11		P	5.5
5	☐			202.23		P	11.0
6	☐			187.78		P	14.9
7	☐			298.89		P	13.4
8	☐			682.25		P	10.5

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Inst Id :P8

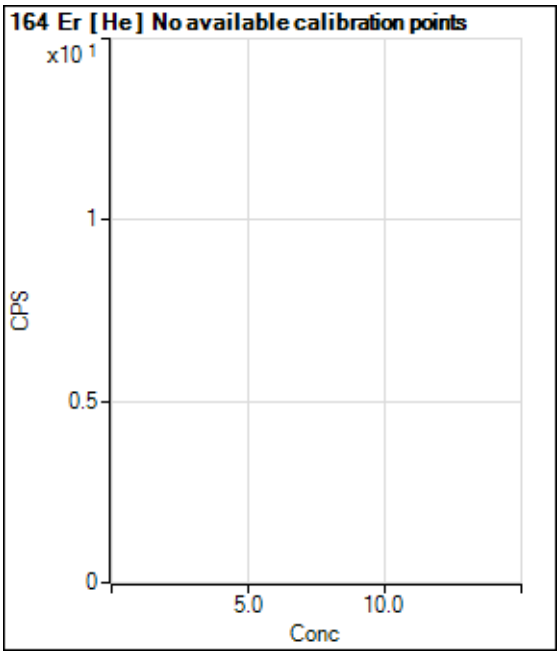


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			26.66		P	21.7
2	☐			30.00		P	19.2
3	☐			37.78		P	18.4
4	☐			37.78		P	31.0
5	☐			24.44		P	20.8
6	☐			58.89		P	35.9
7	☐			70.00		P	31.2
8	☐			246.67		P	14.2

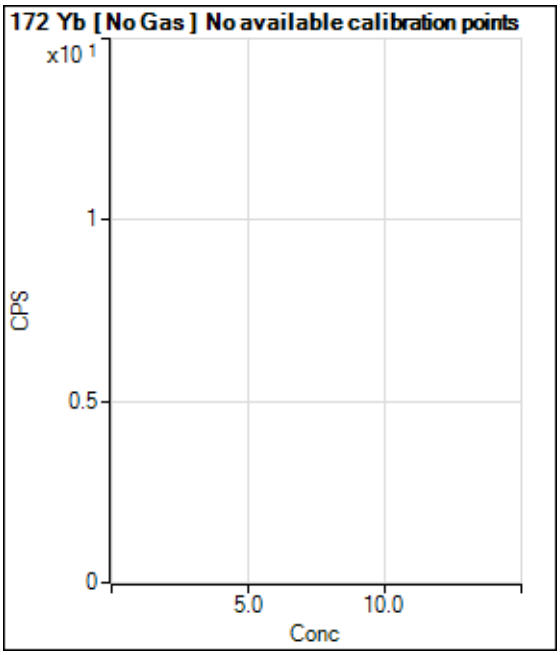


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			107.78		P	20.6
2	☐			91.11		P	10.6
3	☐			118.89		P	17.1
4	☐			137.78		P	5.6
5	☐			155.56		P	6.2
6	☐			180.00		P	9.8
7	☐			296.67		P	9.8
8	☐			731.14		P	9.3

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

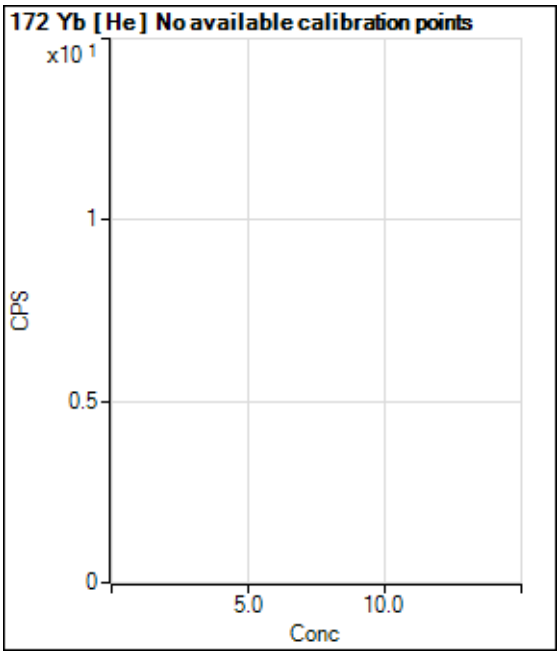


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			28.89		P	48.0
2	☐			30.00		P	29.4
3	☐			26.67		P	43.3
4	☐			25.56		P	71.8
5	☐			44.44		P	11.5
6	☐			73.34		P	37.2
7	☐			97.78		P	19.7
8	☐			215.56		P	20.6

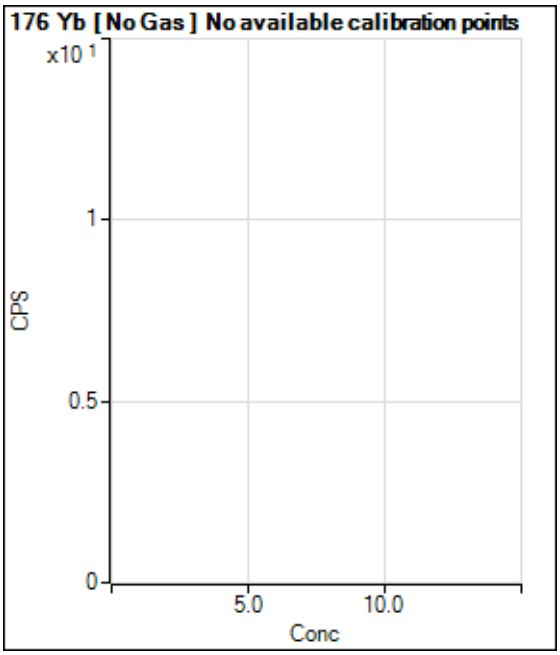


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			110.00		P	9.1
2	☐			122.23		P	28.6
3	☐			125.56		P	10.1
4	☐			132.22		P	20.2
5	☐			151.12		P	19.3
6	☐			208.89		P	10.6
7	☐			322.23		P	4.2
8	☐			857.82		P	5.5

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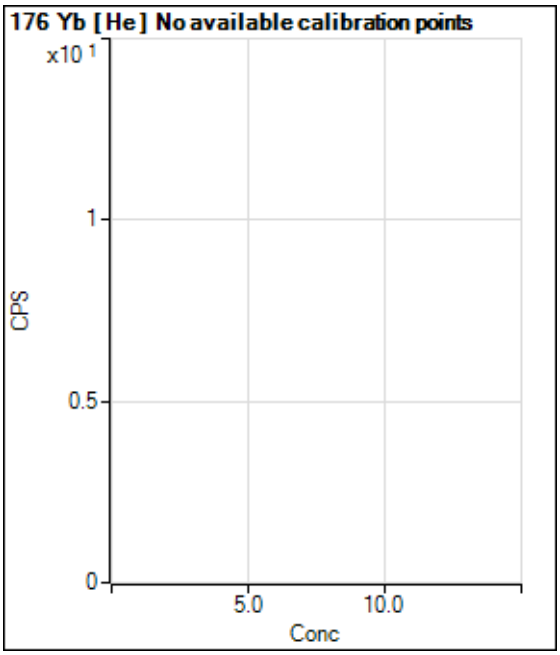


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			40.00		P	38.2
2	☐			40.00		P	43.3
3	☐			46.67		P	25.8
4	☐			60.00		P	25.5
5	☐			63.33		P	5.3
6	☐			84.44		P	13.9
7	☐			111.11		P	9.2
8	☐			351.12		P	3.8

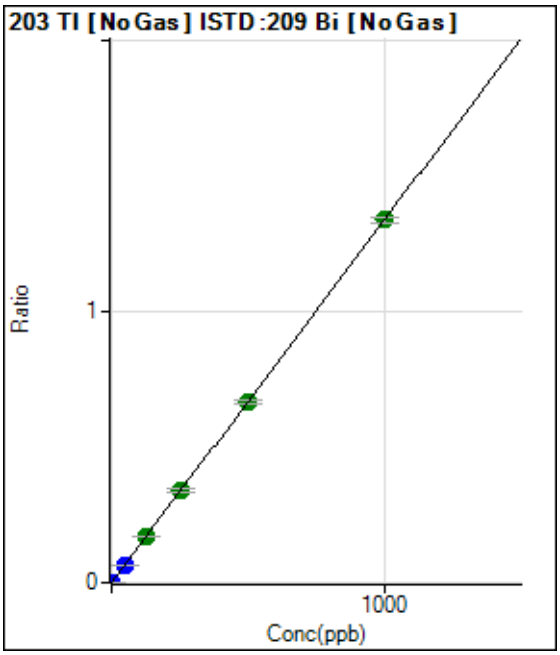


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2222.44		P	4.2
2	☐			2419.14		P	4.1
3	☐			6489.43		P	1.6
4	☐			12490.43		P	1.2
5	☐			22786.36		P	1.1
6	☐			43494.57		P	0.6
7	☐			85527.76		P	0.6
8	☐			2668.08		P	2.6

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			434.45		P	11.0
2	☐			464.46		P	7.7
3	☐			1773.48		P	3.1
4	☐			3791.70		P	1.7
5	☐			7164.23		P	3.2
6	☐			14336.76		P	1.3
7	☐			27634.47		P	0.3
8	☐			593.35		P	14.7

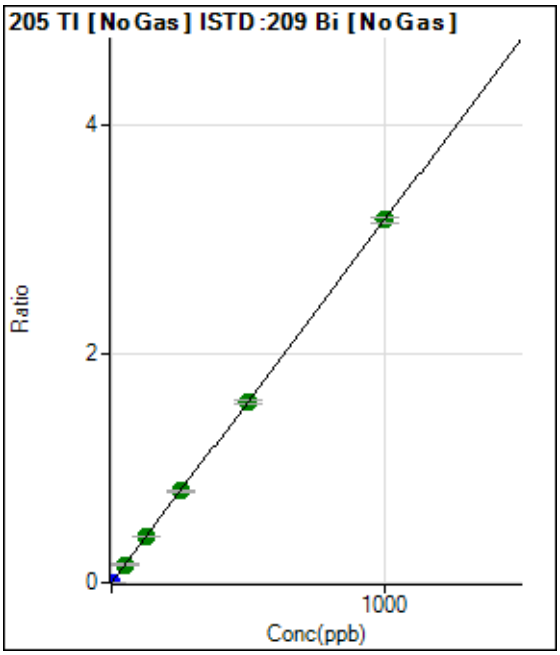


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	371.12	0.0000	P	7.1
2	☐	1.000	1.011	19202.05	0.0014	P	2.0
3	☐	50.000	48.379	893326.81	0.0648	P	1.7
4	☐	125.000	127.082	2340590.73	0.1702	A	1.5
5	☐	250.000	255.100	4620494.90	0.3417	A	2.7
6	☐	500.000	497.081	8935754.04	0.6658	A	1.9
7	☐	1000.000	1000.005	17729233.21	1.3394	A	1.4
8	☐			1641.24	0.0001	P	9.8

y = 0.0013 * x + 2.6249E-005
R = 1.0000
DL = 0.00415
BEC = 0.0196

Weight: <None>
Min Conc: 0

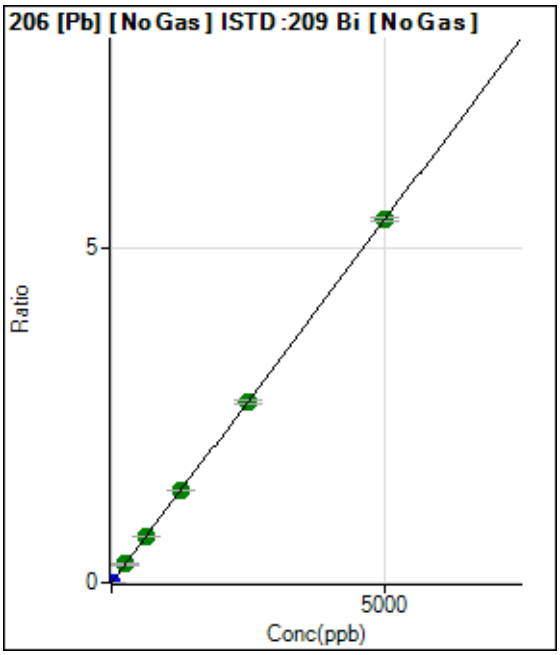
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	886.71	0.0001	P	3.8
2	☐	1.000	1.006	45268.65	0.0033	P	1.4
3	☐	50.000	49.979	2186207.73	0.1586	A	1.6
4	☐	125.000	124.915	5450608.04	0.3964	A	0.3
5	☐	250.000	251.948	10812246.78	0.7994	A	0.4
6	☐	500.000	497.922	21204620.52	1.5799	A	1.4
7	☐	1000.000	1000.564	42022063.26	3.1747	A	1.3
8	☐			3828.40	0.0003	P	11.2

y = 0.0032 * x + 6.2725E-005
R = 1.0000
DL = 0.002256
BEC = 0.01977

Weight: <None>
Min Conc: 0

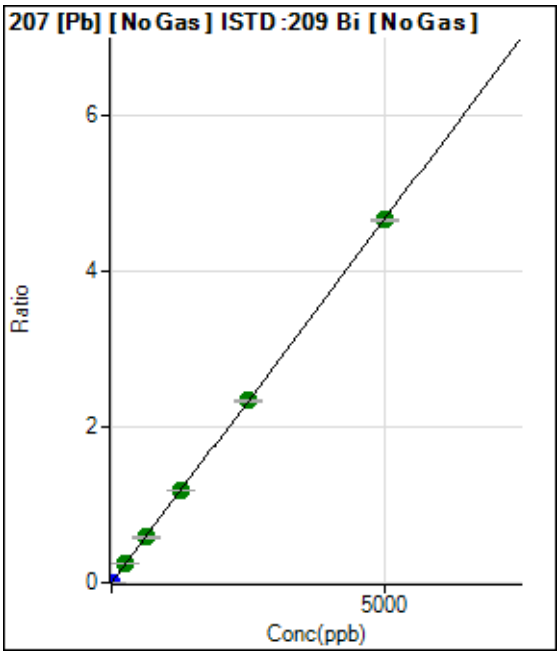


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2249.11	0.0002	P	2.9
2	☐	1.000	0.995	17219.28	0.0012	P	2.9
3	☐	250.000	253.558	3789718.97	0.2750	A	1.5
4	☐	625.000	628.145	9363585.69	0.6810	A	0.9
5	☐	1250.000	1273.749	18673064.86	1.3808	A	1.2
6	☐	2500.000	2487.805	36193588.07	2.6967	A	1.5
7	☐	5000.000	4999.589	71732092.82	5.4191	A	1.1
8	☐			13657.30	0.0012	P	5.8

y = 0.0011 * x + 1.5909E-004
R = 1.0000
DL = 0.01267
BEC = 0.1468

Weight: <None>
Min Conc: 0

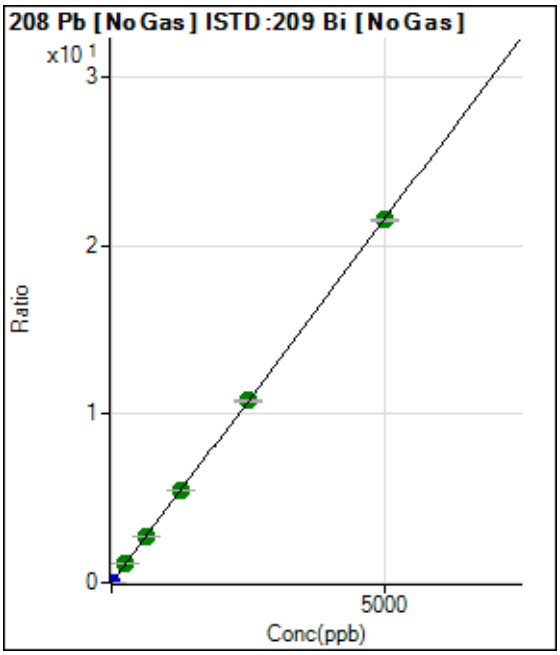
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2017.96	0.0001	P	1.7
2	☐	1.000	1.030	15380.34	0.0011	P	0.5
3	☐	250.000	254.374	3278925.96	0.2379	A	1.1
4	☐	625.000	624.511	8028247.45	0.5839	A	1.1
5	☐	1250.000	1278.573	16165126.01	1.1953	A	0.6
6	☐	2500.000	2501.677	31386373.98	2.3385	A	1.7
7	☐	5000.000	4991.861	61766871.86	4.6662	A	0.2
8	☐			11696.50	0.0010	P	5.6

y = 9.3473E-004 * x + 1.4274E-004
R = 1.0000
DL = 0.007838
BEC = 0.1527

Weight: <None>
Min Conc: 0

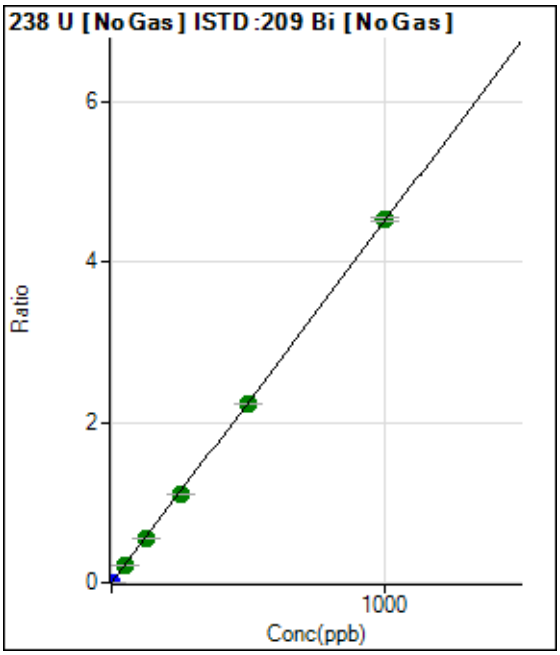


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9152.49	0.0006	P	1.4
2	☐	1.000	1.007	69445.23	0.0050	P	1.4
3	☐	250.000	252.899	15043256.75	1.0915	A	1.2
4	☐	625.000	625.209	37089547.30	2.6975	A	1.0
5	☐	1250.000	1269.547	74069504.45	5.4768	A	0.8
6	☐	2500.000	2507.609	145186560.3	10.8172	A	1.1
7	☐	5000.000	4991.137	284989040.2	21.5298	A	0.8
8	☐			53861.98	0.0047	P	4.1

y = 0.0043 * x + 6.4740E-004
R = 1.0000
DL = 0.006285
BEC = 0.1501

Weight: <None>
Min Conc: 0

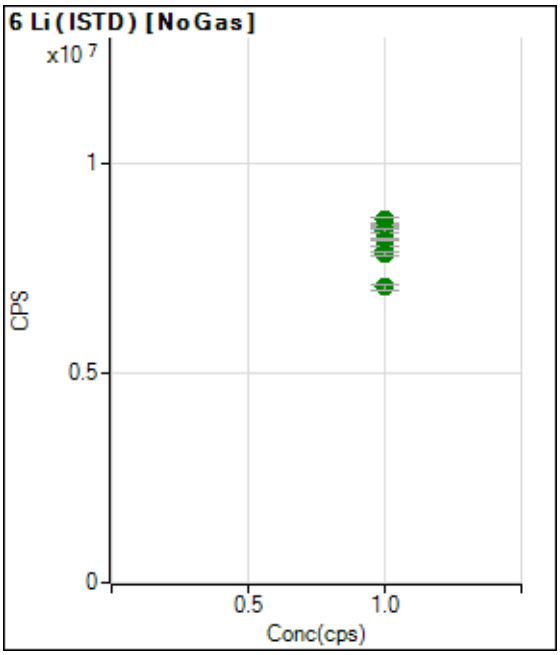
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	33.3
2	☐	1.000	0.954	59882.45	0.0043	P	1.1
3	☐	50.000	49.404	3070852.11	0.2228	A	1.8
4	☐	125.000	121.259	7520530.24	0.5469	A	0.6
5	☐	250.000	244.080	14889468.39	1.1009	A	0.5
6	☐	500.000	494.853	29959249.55	2.2320	A	0.5
7	☐	1000.000	1004.551	59974802.44	4.5309	A	1.0
8	☐			2511.40	0.0002	P	10.9

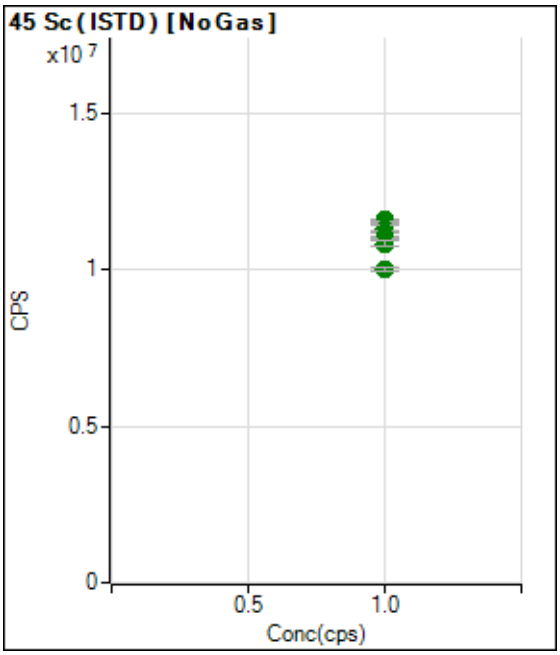
y = 0.0045 * x + 2.0432E-006
R = 1.0000
DL = 0.0004525
BEC = 0.000453

Weight: <None>
Min Conc: 0

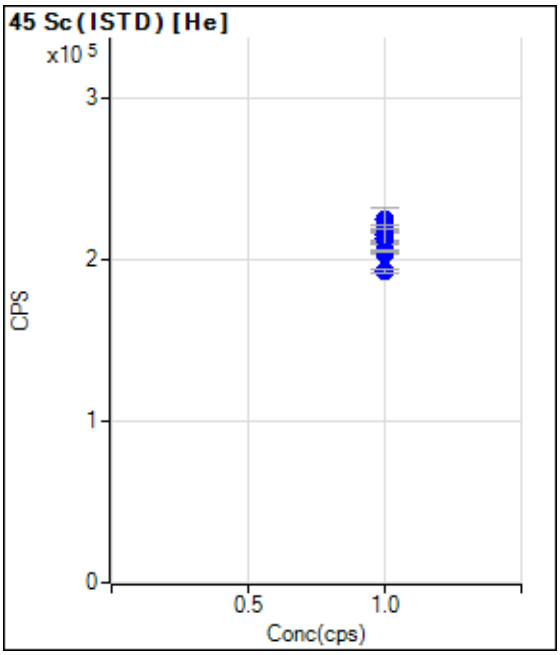


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8658153.68		A	1.7
2	☐	1.000		8495781.38		A	0.5
3	☐	1.000		8380209.99		A	1.2
4	☐	1.000		8384011.28		A	1.0
5	☐	1.000		8190404.49		A	0.5
6	☐	1.000		7923144.77		A	2.6
7	☐	1.000		7862181.98		A	1.0
8	☐	1.000		7052618.90		A	1.6

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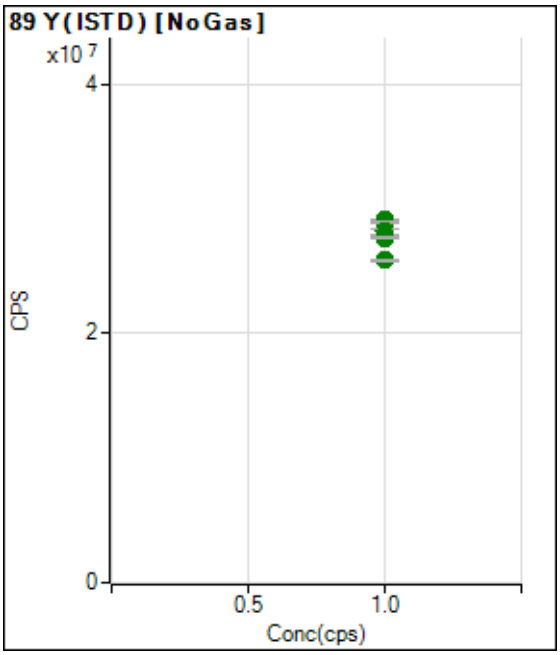


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11608315.24		A	0.8
2	☐	1.000		11537963.86		A	0.3
3	☐	1.000		11323232.61		A	1.8
4	☐	1.000		11217495.25		A	0.5
5	☐	1.000		11059469.00		A	0.7
6	☐	1.000		10980827.89		A	0.9
7	☐	1.000		10857832.34		A	1.2
8	☐	1.000		10053947.56		A	1.1

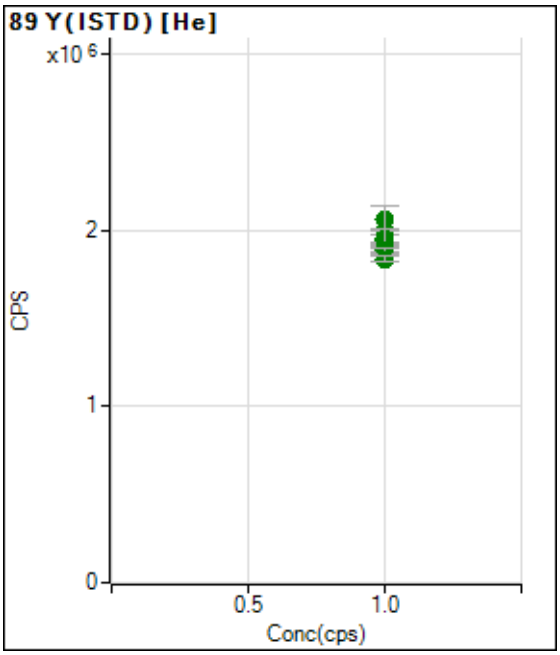


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		217707.05		P	0.1
2	☐	1.000		224544.60		P	7.0
3	☐	1.000		210648.64		P	0.8
4	☐	1.000		215063.12		P	4.1
5	☐	1.000		212584.27		P	7.7
6	☐	1.000		203990.96		P	0.4
7	☐	1.000		205018.86		P	0.6
8	☐	1.000		192722.63		P	1.4

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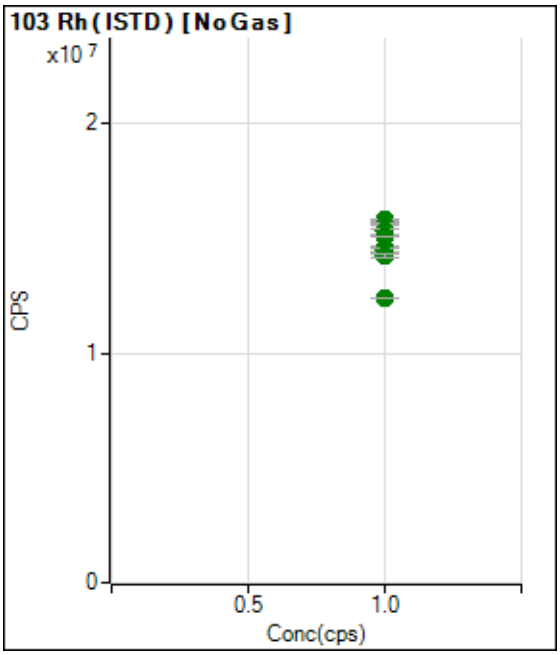


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1	☐	1.000		29127439.29		A	0.4
2	☐	1.000		28951380.68		A	0.8
3	☐	1.000		28219900.41		A	1.8
4	☐	1.000		27928908.75		A	0.2
5	☐	1.000		27645630.42		A	0.3
6	☐	1.000		27769859.59		A	1.2
7	☐	1.000		27736505.70		A	0.8
8	☐	1.000		25862318.50		A	0.9

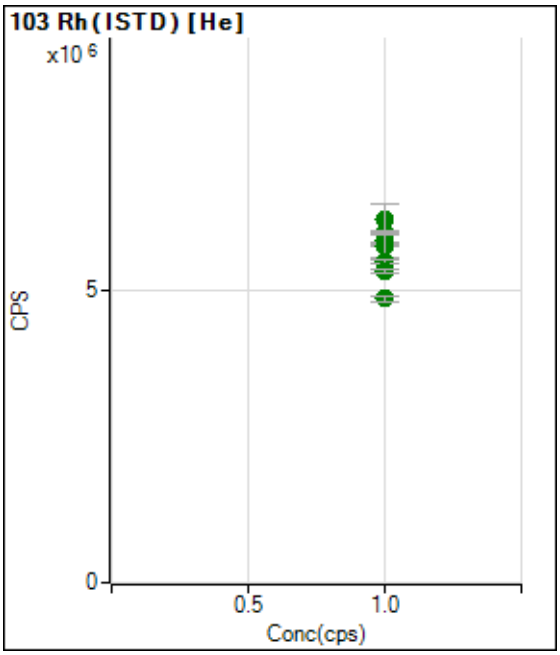


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2001618.46		A	0.3
2	☐	1.000		2061053.74		A	7.9
3	☐	1.000		1925249.67		A	0.8
4	☐	1.000		1959713.86		A	5.0
5	☐	1.000		1943792.71		A	6.3
6	☐	1.000		1890142.99		A	2.0
7	☐	1.000		1888205.63		A	1.9
8	☐	1.000		1837342.07		A	1.9

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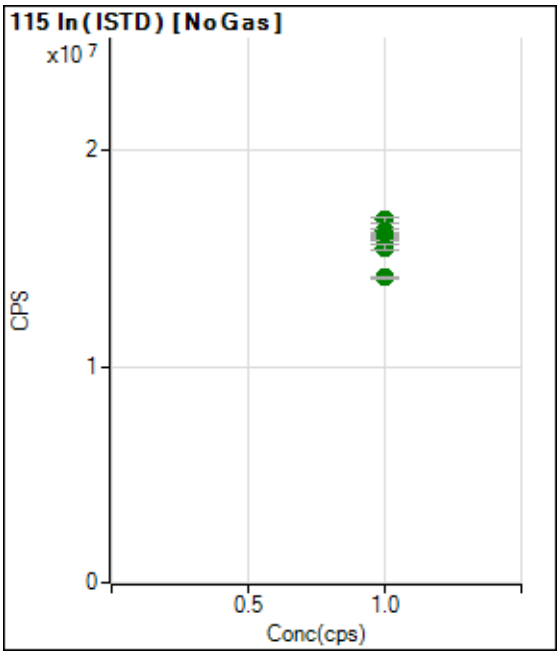


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15810707.82		A	0.7
2	☐	1.000		15619833.79		A	0.6
3	☐	1.000		15308771.72		A	1.6
4	☐	1.000		15081158.11		A	0.4
5	☐	1.000		14585687.01		A	0.6
6	☐	1.000		14491979.09		A	0.8
7	☐	1.000		14251852.57		A	0.7
8	☐	1.000		12386790.09		A	0.4

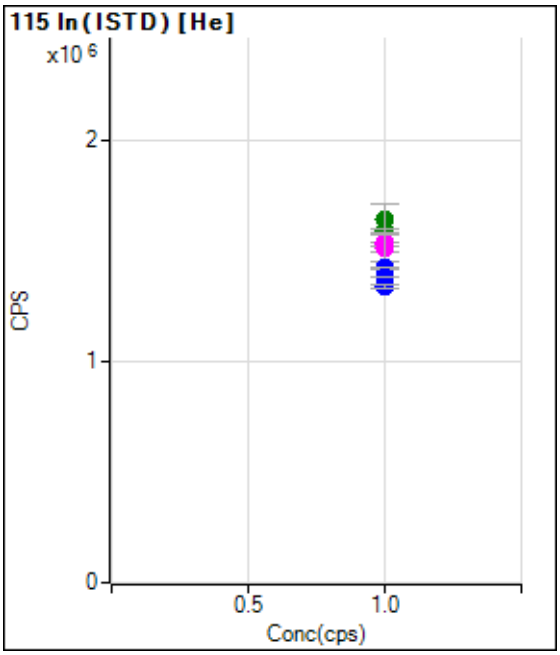


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1	☐	1.000		5994080.53		A	0.6
2	☐	1.000		6215391.92		A	8.4
3	☐	1.000		5801508.87		A	0.6
4	☐	1.000		5874810.75		A	3.5
5	☐	1.000		5778831.10		A	7.0
6	☐	1.000		5498296.20		A	0.9
7	☐	1.000		5323256.38		A	1.2
8	☐	1.000		4860383.09		A	1.6

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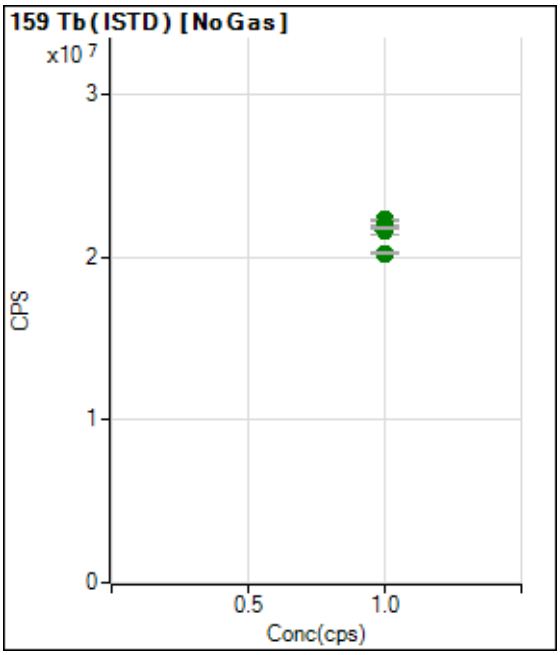


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16777821.16		A	1.9
2	☐	1.000		16237163.75		A	1.1
3	☐	1.000		16050205.09		A	1.8
4	☐	1.000		16058905.46		A	0.6
5	☐	1.000		15877736.26		A	1.0
6	☐	1.000		15820368.30		A	0.3
7	☐	1.000		15517154.60		A	1.2
8	☐	1.000		14101298.66		A	0.7

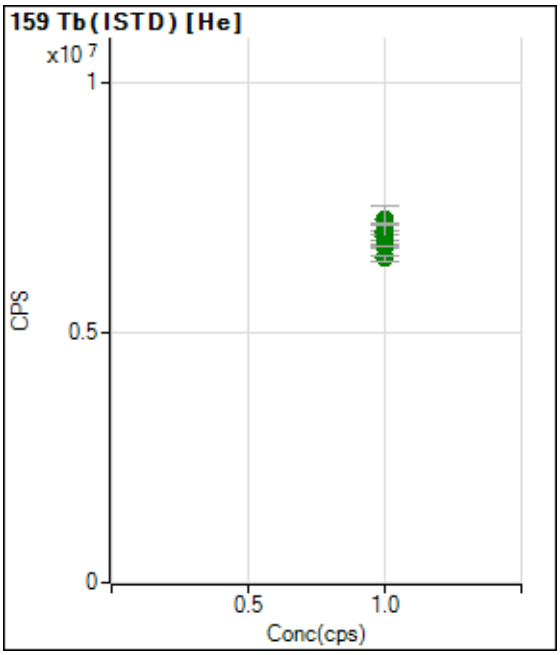


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1597260.45		A	1.2
2	☐	1.000		1643550.43		A	8.3
3	☐	1.000		1530713.97		M	1.2
4	☐	1.000		1539341.77		M	5.1
5	☐	1.000		1514017.56		M	8.3
6	☐	1.000		1424322.03		P	0.7
7	☐	1.000		1383034.49		P	0.3
8	☐	1.000		1340767.01		P	1.1

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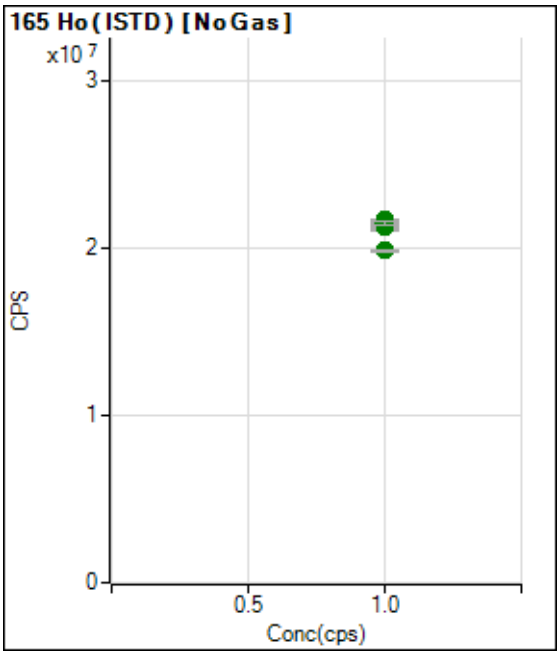


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		22307654.39		A	0.4
2	☐	1.000		21776034.68		A	0.5
3	☐	1.000		21612153.71		A	1.8
4	☐	1.000		21766914.12		A	0.6
5	☐	1.000		21943500.23		A	1.0
6	☐	1.000		21816766.34		A	0.6
7	☐	1.000		21814493.84		A	0.8
8	☐	1.000		20232212.34		A	0.6

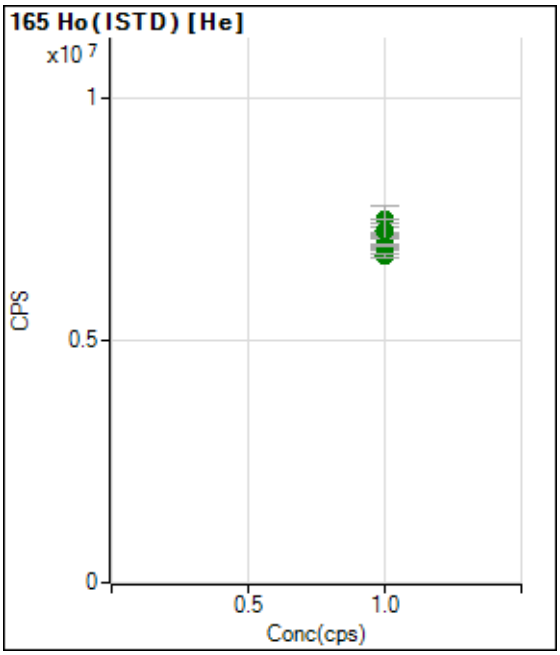


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7008153.78		A	1.2
2	☐	1.000		7269430.79		A	7.7
3	☐	1.000		6862305.25		A	0.4
4	☐	1.000		7039973.09		A	4.9
5	☐	1.000		6935104.83		A	6.3
6	☐	1.000		6774663.37		A	0.7
7	☐	1.000		6751505.94		A	0.2
8	☐	1.000		6503118.72		A	1.8

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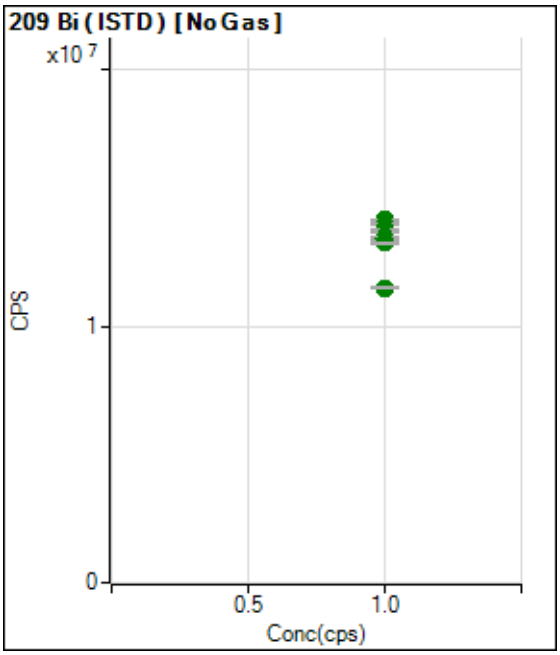


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		21696137.73		A	0.7
2	☐	1.000		21319915.24		A	0.2
3	☐	1.000		21244185.24		A	1.7
4	☐	1.000		21451379.12		A	1.0
5	☐	1.000		21289384.54		A	0.8
6	☐	1.000		21275658.99		A	0.1
7	☐	1.000		21489703.57		A	1.3
8	☐	1.000		19871363.59		A	0.8

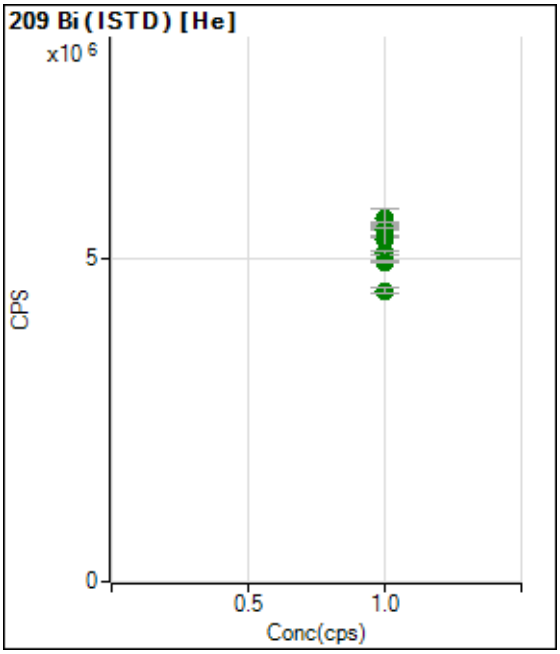


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7284543.57		A	1.8
2	☐	1.000		7500045.72		A	8.3
3	☐	1.000		7141468.71		A	0.4
4	☐	1.000		7291858.43		A	4.4
5	☐	1.000		7271120.93		A	7.1
6	☐	1.000		6899509.20		A	0.8
7	☐	1.000		6967164.48		A	0.5
8	☐	1.000		6764180.04		A	1.4

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14137098.82		A	0.2
2	☐	1.000		13911364.93		A	1.3
3	☐	1.000		13783882.02		A	1.9
4	☐	1.000		13750630.35		A	1.0
5	☐	1.000		13524994.38		A	1.1
6	☐	1.000		13422567.44		A	0.8
7	☐	1.000		13237225.91		A	0.6
8	☐	1.000		11496100.80		A	0.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5514930.82		A	0.2
2	☐	1.000		5613132.91		A	6.1
3	☐	1.000		5357075.41		A	0.2
4	☐	1.000		5436617.45		A	4.3
5	☐	1.000		5290418.01		A	6.8
6	☐	1.000		5087430.27		A	0.7
7	☐	1.000		4947479.44		A	0.7
8	☐	1.000		4507048.16		A	1.6

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8021025 MS.b
Acq. Date-Time	2025-02-10 13:18:33
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		33564	335636.07			0.396	5.000
24		320760	3207604.35			0.450	5.000
25		42729	427290.14			0.418	5.000
26		48319	483185.49			0.245	5.000
59		193451	1934511.45			0.556	5.000
113		21991	219909.59			0.297	5.000
115		287956	2879561.14			0.552	5.000
206		71805	718047.51			0.580	5.000
207		60843	608431.92			0.181	5.000
208		155311	1553110.74			0.552	5.000
220		0	3.80			47.986	

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	33729	33631	33539	33369	33549
24	319633	319291	320303	322154	322421
25	43029	42607	42754	42602	42653
26	48414	48174	48460	48303	48242
59	193687	194513	192351	194407	192298
113	22058	21972	22059	21951	21914
115	289140	288784	285737	286821	289298
206	71348	71448	71948	71902	72378
207	60764	60724	60979	60812	60938
208	154688	156721	155439	155107	154600

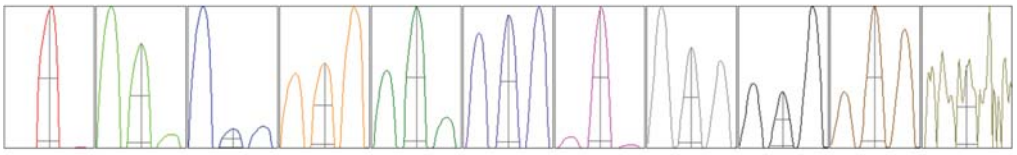
Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	57797.15	9.05	8.90 - 9.10	
24	541721.30	24.05	23.90 - 24.10	
25	72577.17	25.05	24.90 - 25.10	
26	82354.19	26.05	25.90 - 26.10	
59	349060.36	59.05	58.90 - 59.10	
113	43597.06	113.05	112.90 - 113.10	
115	574233.13	115.05	114.90 - 115.10	
206	142010.98	206.00	205.90 - 206.10	
207	122018.74	207.00	206.90 - 207.10	
208	306660.15	208.00	207.90 - 208.10	
220	0.55	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.741	0.900	
24	0.63	0.787	0.900	
25	0.63	0.786	0.900	
26	0.62	0.784	0.900	
59	0.59	0.739	0.900	
113	0.53	0.754	0.900	
115	0.52	0.758	0.900	
206	0.50	0.781	0.900	
207	0.50	0.796	0.900	
208	0.51	0.799	0.900	
220	0.63	0.693		

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

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8
ClientSampleId :TUNE001

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	8.9 V	Deflect	14.6 V
Extract 2	-210.0 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	160 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9961	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.6 mm		

EM

Discriminator	4.0 mV	Analog HV	2180 V	Pulse HV	1087 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		36408	364081.63			2.797	
89		35118	351181.05			2.703	
205		40908	409075.64			2.664	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	35883	35673	38189	36261	36035
89	34491	34437	36727	35205	34730
205	39935	40500	42778	40760	40565

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	8.9 V	Deflect	3.2 V

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8
ClientSampleId :TUNE001

US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
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	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.6 mm

EM

Discriminator	4.0 mV	Analog HV	2180 V	Pulse HV	1087 V

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.09	-0.23	0.14	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.01	0.01	0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	-0.01	0.02	-0.01	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	0.01	0.03	-0.03	0.00	N/A	ppb
Cadmium	106-1	0.19	0.16	-0.34	0.00	N/A	ppb
Cadmium	111-1	0.01	0.01	-0.02	0.00	N/A	ppb
Calcium	43-1	1.02	-1.75	0.72	0.00	N/A	ppb
Calcium	44-1	-0.07	-0.66	0.73	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	0.01	-0.01	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.03	-0.01	-0.02	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	-0.05	0.00	0.04	0.00	N/A	ppb
Iron	56-2	-0.02	-0.04	0.06	0.00	N/A	ppb
Iron	57-2	-0.25	0.08	0.17	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:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	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	-0.05	0.31	-0.26	0.00	N/A	ppb
Manganese	55-2	0.01	-0.01	0.00	0.00	N/A	ppb
Molybdenum	94-1	0.01	-0.01	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	0.02	0.01	-0.03	0.00	N/A	ppb
Phosphorus	31-2	-23.17	-27.04	-21.23	-23.81		ppb
Potassium	39-2	-0.63	1.39	-0.76	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.16	-0.01	0.17	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.38	0.31	0.07	0.00	N/A	ppb
Silicon	28-1	0.10	-0.29	0.20	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	1.10	1.12	-2.22	0.00	N/A	ppb
Strontium	86-1	-0.12	0.20	-0.08	0.00	N/A	ppb
Strontium	88-1	0.01	0.01	-0.01	0.00	N/A	ppb
Sulfur	34-1	-149.52	-139.46	-40.86	-109.95		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	0.00	0.00	N/A	ppb
Titanium	47-1	-0.02	0.02	0.00	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	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	0.06	0.03	-0.09	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:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.74	22.85	20.90	20.50	12.60	ppb
Antimony	121-1	2.16	2.13	2.15	2.15	0.76	ppb
Arsenic	75-2	0.79	1.22	1.27	1.09	23.99	ppb
Barium	135-1	10.42	10.41	10.38	10.40	0.21	ppb
Barium	137-1	10.54	10.45	10.55	10.51	0.54	ppb
Beryllium	9-1	1.10	1.14	1.11	1.12	2.06	ppb
Bismuth	209-1				98		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	1.21	0.99	1.22	1.14	11.46	ppb
Cadmium	106-1	1.39	1.45	1.44	1.43	2.32	ppb
Cadmium	111-1	1.14	1.19	1.17	1.17	2.11	ppb
Calcium	43-1	496.78	503.84	517.13	505.92	2.04	ppb
Calcium	44-1	502.69	499.91	504.90	502.50	0.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.84	2.19	2.05	2.03	8.80	ppb
Cobalt	59-2	1.01	1.12	1.13	1.09	6.11	ppb
Copper	63-2	1.94	2.24	2.29	2.15	8.72	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				98		%
Holmium	165-2				103		%
Indium	115-1				97		%
Indium	115-2				103		%
Iron	54-2	49.40	56.31	57.67	54.46	8.15	ppb
Iron	56-2	49.34	55.74	55.72	53.60	6.88	ppb
Iron	57-2	46.32	54.64	58.08	53.01	11.41	ppb
Krypton	83-1						cps
Lead	206-1	0.99	1.03	0.96	1.00	3.35	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.03	1.03	1.02	1.03	0.62	ppb
Lead	208-1	1.00	1.03	1.00	1.01	1.56	ppb
Lithium	6-1				98		%
Magnesium	24-2	473.09	538.80	533.80	515.23	7.10	ppb
Manganese	55-2	0.99	0.98	0.96	0.97	1.79	ppb
Molybdenum	94-1	5.98	5.88	6.12	5.99	2.01	ppb
Molybdenum	95-1	4.92	5.05	5.10	5.02	1.78	ppb
Molybdenum	96-1	5.05	5.08	5.18	5.10	1.36	ppb
Molybdenum	97-1	5.04	5.20	5.06	5.10	1.72	ppb
Molybdenum	98-1	4.98	4.98	5.17	5.04	2.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.83	1.05	1.05	0.98	12.74	ppb
Phosphorus	31-2	24.50	33.63	13.30	23.81	42.75	ppb
Potassium	39-2	445.69	512.65	512.57	490.30	7.88	ppb
Rhodium	103-1				99		%
Rhodium	103-2				104		%
Scandium	45-1				99		%
Scandium	45-2				103		%
Selenium	82-1	5.66	5.60	5.06	5.44	6.12	ppb
Selenium	77-2	4.98	7.27	3.27	5.17	38.82	ppb
Selenium	78-2	5.91	6.60	4.34	5.61	20.66	ppb
Silicon	28-1	6.63	6.87	6.97	6.82	2.62	ppb
Silver	107-1	1.03	1.08	1.06	1.06	2.16	ppb
Silver	109-1	1.07	1.07	1.05	1.07	1.16	ppb
Sodium	23-2	471.33	555.82	544.34	523.83	8.75	ppb
Strontium	86-1	25.37	25.43	26.42	25.74	2.29	ppb
Strontium	88-1	25.53	25.51	25.74	25.59	0.50	ppb
Sulfur	34-1	95.82	81.33	152.69	109.95	34.31	ppb
Terbium	159-1				98		%
Terbium	159-2				104		%
Thallium	203-1	1.03	1.01	0.99	1.01	2.01	ppb
Thallium	205-1	1.00	1.02	0.99	1.01	1.44	ppb
Tin	118-1	5.36	5.31	5.40	5.36	0.82	ppb
Titanium	47-1	5.07	5.37	5.32	5.25	3.09	ppb
Uranium	238-1	0.96	0.96	0.94	0.95	1.14	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.58	5.20	5.45	5.08	8.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				103		%
Zinc	66-2	4.52	5.30	5.33	5.05	9.08	ppb
Zirconium	90-1	0.99	1.01	1.03	1.01	2.14	ppb
Zirconium	91-1	0.95	0.99	1.00	0.98	2.63	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1026.83	1026.64	1014.11	1022.53	0.71	ppb
Antimony	121-1	50.01	51.83	50.80	50.88	1.79	ppb
Arsenic	75-2	51.85	51.45	52.10	51.80	0.63	ppb
Barium	135-1	247.45	258.76	250.00	252.07	2.35	ppb
Barium	137-1	254.36	264.28	257.13	258.59	1.98	ppb
Beryllium	9-1	51.37	52.13	51.81	51.77	0.74	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	52.19	56.30	55.48	54.66	3.97	ppb
Cadmium	106-1	53.06	55.98	53.95	54.33	2.76	ppb
Cadmium	111-1	50.65	53.42	51.55	51.87	2.73	ppb
Calcium	43-1	4941.31	5074.00	4911.39	4975.56	1.74	ppb
Calcium	44-1	5140.68	5307.08	5023.18	5156.98	2.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.23	49.49	48.78	49.17	0.73	ppb
Cobalt	59-2	51.12	51.42	50.36	50.97	1.08	ppb
Copper	63-2	536.70	550.08	532.37	539.72	1.71	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				98		%
Indium	115-1				96		%
Indium	115-2				96		%
Iron	54-2	2654.58	2631.13	2658.04	2647.92	0.55	ppb
Iron	56-2	2660.99	2657.90	2611.60	2643.50	1.05	ppb
Iron	57-2	2586.46	2555.80	2550.10	2564.12	0.76	ppb
Krypton	83-1						cps
Lead	206-1	251.63	258.08	250.97	253.56	1.55	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	251.36	257.02	254.74	254.37	1.12	ppb
Lead	208-1	250.76	256.30	251.64	252.90	1.18	ppb
Lithium	6-1				97		%
Magnesium	24-2	5243.49	5277.46	5352.97	5291.31	1.06	ppb
Manganese	55-2	500.13	503.14	492.53	498.60	1.10	ppb
Molybdenum	94-1	500.52	521.00	506.28	509.27	2.07	ppb
Molybdenum	95-1	501.19	520.94	503.60	508.58	2.12	ppb
Molybdenum	96-1	504.79	529.02	508.66	514.15	2.53	ppb
Molybdenum	97-1	504.09	530.19	504.60	512.96	2.91	ppb
Molybdenum	98-1	504.19	519.67	498.11	507.32	2.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.07	50.79	49.85	50.57	1.26	ppb
Phosphorus	31-2	1083.54	1025.60	979.71	1029.62	5.05	ppb
Potassium	39-2	2468.40	2468.41	2438.00	2458.27	0.71	ppb
Rhodium	103-1				97		%
Rhodium	103-2				97		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	52.77	53.78	51.65	52.73	2.02	ppb
Selenium	77-2	66.30	45.41	55.32	55.67	18.77	ppb
Selenium	78-2	54.23	52.84	48.11	51.73	6.21	ppb
Silicon	28-1	53.51	56.61	53.48	54.53	3.29	ppb
Silver	107-1	51.24	53.86	52.38	52.49	2.50	ppb
Silver	109-1	51.54	53.99	52.90	52.81	2.32	ppb
Sodium	23-2	5450.81	5501.80	5433.96	5462.19	0.65	ppb
Strontium	86-1	1223.92	1250.74	1219.72	1231.46	1.37	ppb
Strontium	88-1	1298.34	1304.03	1277.76	1293.38	1.07	ppb
Sulfur	34-1	1460.25	1704.88	1216.83	1460.65	16.71	ppb
Terbium	159-1				97		%
Terbium	159-2				98		%
Thallium	203-1	47.51	49.17	48.47	48.38	1.72	ppb
Thallium	205-1	49.38	50.87	49.69	49.98	1.57	ppb
Tin	118-1	49.96	52.23	50.55	50.92	2.31	ppb
Titanium	47-1	511.19	525.67	508.64	515.16	1.78	ppb
Uranium	238-1	48.71	50.42	49.08	49.40	1.82	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	48.76	49.40	48.55	48.90	0.90	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	513.79	516.54	510.40	513.57	0.60	ppb
Zirconium	90-1	50.95	52.03	51.28	51.42	1.08	ppb
Zirconium	91-1	47.98	49.75	47.86	48.53	2.17	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2533.74	2314.21	2457.74	2435.23	4.58	ppb
Antimony	121-1	128.47	126.35	126.40	127.07	0.95	ppb
Arsenic	75-2	126.14	117.01	128.83	123.99	4.99	ppb
Barium	135-1	648.75	639.52	635.06	641.11	1.09	ppb
Barium	137-1	654.63	635.60	644.26	644.83	1.48	ppb
Beryllium	9-1	125.77	123.52	126.06	125.12	1.11	ppb
Bismuth	209-1				97		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	132.01	128.37	129.58	129.98	1.43	ppb
Cadmium	106-1	131.32	128.92	128.87	129.70	1.08	ppb
Cadmium	111-1	126.15	126.12	126.74	126.34	0.28	ppb
Calcium	43-1	12358.99	12491.17	12403.93	12418.03	0.54	ppb
Calcium	44-1	12642.51	12640.90	12716.89	12666.77	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	122.01	111.51	118.84	117.45	4.59	ppb
Cobalt	59-2	126.41	117.15	122.35	121.97	3.80	ppb
Copper	63-2	1313.07	1209.45	1302.59	1275.04	4.47	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				99		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				96		%
Iron	54-2	6484.09	5946.85	6383.58	6271.51	4.55	ppb
Iron	56-2	6554.61	6039.16	6373.97	6322.58	4.14	ppb
Iron	57-2	6355.04	5834.26	6183.35	6124.22	4.33	ppb
Krypton	83-1						cps
Lead	206-1	633.29	621.94	629.20	628.15	0.91	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	629.94	616.54	627.06	624.51	1.13	ppb
Lead	208-1	628.63	618.24	628.76	625.21	0.97	ppb
Lithium	6-1				97		%
Magnesium	24-2	13247.34	12124.95	12748.46	12706.92	4.43	ppb
Manganese	55-2	1280.03	1169.09	1230.10	1226.41	4.53	ppb
Molybdenum	94-1	1264.13	1256.93	1256.89	1259.31	0.33	ppb
Molybdenum	95-1	1275.03	1256.13	1245.98	1259.05	1.17	ppb
Molybdenum	96-1	1276.16	1255.38	1258.70	1263.41	0.88	ppb
Molybdenum	97-1	1279.73	1261.27	1270.47	1270.49	0.73	ppb
Molybdenum	98-1	1267.68	1242.60	1256.03	1255.44	1.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	122.99	113.31	120.36	118.89	4.21	ppb
Phosphorus	31-2	2545.85	2354.44	2458.70	2452.99	3.91	ppb
Potassium	39-2	6085.09	5633.63	5924.21	5880.98	3.89	ppb
Rhodium	103-1				95		%
Rhodium	103-2				98		%
Scandium	45-1				97		%
Scandium	45-2				99		%
Selenium	82-1	127.31	130.57	127.02	128.30	1.54	ppb
Selenium	77-2	104.99	121.21	145.41	123.87	16.42	ppb
Selenium	78-2	128.68	117.99	125.87	124.18	4.46	ppb
Silicon	28-1	132.72	133.56	130.39	132.23	1.24	ppb
Silver	107-1	137.72	133.37	134.65	135.25	1.65	ppb
Silver	109-1	136.20	133.43	130.43	133.35	2.17	ppb
Sodium	23-2	13327.99	12057.46	13005.55	12797.00	5.16	ppb
Strontium	86-1	3076.76	3070.64	3064.04	3070.48	0.21	ppb
Strontium	88-1	3147.55	3179.92	3155.47	3160.98	0.53	ppb
Sulfur	34-1	3218.41	3021.53	2622.90	2954.28	10.27	ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	127.87	124.92	128.46	127.08	1.49	ppb
Thallium	205-1	125.38	124.56	124.81	124.92	0.34	ppb
Tin	118-1	130.07	127.55	129.17	128.93	0.99	ppb
Titanium	47-1	1245.42	1257.46	1248.96	1250.61	0.49	ppb
Uranium	238-1	120.69	121.00	122.09	121.26	0.61	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	122.66	111.78	118.66	117.70	4.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				98		%
Zinc	66-2	1267.58	1163.28	1243.95	1224.94	4.46	ppb
Zirconium	90-1	128.81	128.60	128.03	128.48	0.31	ppb
Zirconium	91-1	121.52	121.13	121.57	121.41	0.20	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4984.72	5142.34	4423.00	4850.02	7.80	ppb
Antimony	121-1	255.19	253.03	254.55	254.26	0.44	ppb
Arsenic	75-2	252.89	256.90	228.16	245.98	6.33	ppb
Barium	135-1	1272.34	1286.40	1289.11	1282.62	0.70	ppb
Barium	137-1	1266.83	1247.72	1280.84	1265.13	1.31	ppb
Beryllium	9-1	256.89	249.61	265.40	257.30	3.07	ppb
Bismuth	209-1				96		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	258.57	256.72	260.71	258.67	0.77	ppb
Cadmium	106-1	252.66	253.55	256.62	254.28	0.82	ppb
Cadmium	111-1	245.46	244.26	249.91	246.54	1.21	ppb
Calcium	43-1	25650.52	26389.54	25362.41	25800.82	2.05	ppb
Calcium	44-1	25144.26	25635.09	25376.79	25385.38	0.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	244.07	248.17	212.86	235.03	8.22	ppb
Cobalt	59-2	259.49	262.75	225.64	249.29	8.24	ppb
Copper	63-2	2606.78	2622.73	2310.82	2513.44	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				100		%
Indium	115-1				95		%
Indium	115-2				95		%
Iron	54-2	13428.24	13749.58	11827.04	13001.62	7.92	ppb
Iron	56-2	13213.90	13405.15	11535.74	12718.26	8.09	ppb
Iron	57-2	12691.03	12743.40	11094.39	12176.27	7.70	ppb
Krypton	83-1						cps
Lead	206-1	1284.26	1256.74	1280.24	1273.75	1.17	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1281.62	1269.93	1284.17	1278.57	0.59	ppb
Lead	208-1	1270.16	1258.58	1279.90	1269.55	0.84	ppb
Lithium	6-1				95		%
Magnesium	24-2	26216.40	26650.37	22595.24	25154.00	8.85	ppb
Manganese	55-2	2583.08	2621.03	2208.17	2470.76	9.24	ppb
Molybdenum	94-1	2529.31	2548.87	2517.70	2531.96	0.62	ppb
Molybdenum	95-1	2540.68	2534.20	2563.27	2546.05	0.60	ppb
Molybdenum	96-1	2565.27	2542.64	2571.49	2559.80	0.59	ppb
Molybdenum	97-1	2571.89	2531.36	2559.81	2554.35	0.81	ppb
Molybdenum	98-1	2553.45	2563.72	2543.40	2553.52	0.40	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	245.84	249.59	215.75	237.06	7.82	ppb
Phosphorus	31-2	4890.86	5226.77	4416.59	4844.74	8.40	ppb
Potassium	39-2	12837.57	12877.78	11125.51	12280.29	8.15	ppb
Rhodium	103-1				92		%
Rhodium	103-2				96		%
Scandium	45-1				95		%
Scandium	45-2				98		%
Selenium	82-1	255.60	262.87	255.87	258.12	1.60	ppb
Selenium	77-2	259.81	276.42	217.23	251.15	12.16	ppb
Selenium	78-2	268.95	274.42	237.02	260.13	7.77	ppb
Silicon	28-1	261.49	258.57	259.10	259.72	0.60	ppb
Silver	107-1	264.35	259.30	266.26	263.30	1.37	ppb
Silver	109-1	258.93	255.26	266.32	260.17	2.17	ppb
Sodium	23-2	26400.77	26773.20	23435.06	25536.34	7.16	ppb
Strontium	86-1	6117.93	6246.66	6211.03	6191.87	1.07	ppb
Strontium	88-1	6297.11	6318.69	6299.51	6305.10	0.19	ppb
Sulfur	34-1	4914.49	5023.95	4925.00	4954.48	1.22	ppb
Terbium	159-1				98		%
Terbium	159-2				99		%
Thallium	203-1	260.53	247.42	257.35	255.10	2.68	ppb
Thallium	205-1	252.05	251.01	252.78	251.95	0.35	ppb
Tin	118-1	254.51	255.41	255.41	255.11	0.20	ppb
Titanium	47-1	2500.51	2529.37	2533.16	2521.01	0.71	ppb
Uranium	238-1	243.25	243.56	245.44	244.08	0.49	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	244.88	250.18	216.94	237.33	7.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				97		%
Zinc	66-2	2529.30	2568.57	2227.09	2441.65	7.65	ppb
Zirconium	90-1	251.13	252.44	251.44	251.67	0.27	ppb
Zirconium	91-1	256.19	256.35	254.98	255.84	0.29	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9967.74	10078.19	10023.64	10023.19	0.55	ppb
Antimony	121-1	499.57	500.60	503.88	501.35	0.45	ppb
Arsenic	75-2	504.87	510.58	498.78	504.75	1.17	ppb
Barium	135-1	2546.07	2504.70	2532.81	2527.86	0.84	ppb
Barium	137-1	2530.11	2524.48	2555.09	2536.56	0.64	ppb
Beryllium	9-1	522.78	509.82	507.11	513.24	1.63	ppb
Bismuth	209-1				95		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	492.30	509.37	503.08	501.59	1.72	ppb
Cadmium	106-1	498.04	503.46	499.13	500.21	0.57	ppb
Cadmium	111-1	511.19	507.40	500.97	506.52	1.02	ppb
Calcium	43-1	50343.52	50420.45	52001.96	50921.98	1.84	ppb
Calcium	44-1	50011.28	49869.11	51090.49	50323.63	1.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	505.03	506.84	492.80	501.56	1.52	ppb
Cobalt	59-2	511.56	511.47	517.49	513.51	0.67	ppb
Copper	63-2	5246.32	5162.49	5197.54	5202.12	0.81	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				98		%
Holmium	165-2				95		%
Indium	115-1				94		%
Indium	115-2				89		%
Iron	54-2	26706.16	26506.73	26095.02	26435.97	1.18	ppb
Iron	56-2	26336.33	26235.39	25948.87	26173.53	0.77	ppb
Iron	57-2	26601.23	26189.75	26075.02	26288.67	1.05	ppb
Krypton	83-1						cps
Lead	206-1	2472.73	2461.01	2529.67	2487.81	1.48	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2492.16	2463.73	2549.14	2501.68	1.74	ppb
Lead	208-1	2498.91	2485.13	2538.78	2507.61	1.11	ppb
Lithium	6-1				92		%
Magnesium	24-2	50931.97	51690.32	50590.05	51070.78	1.10	ppb
Manganese	55-2	5024.05	5034.26	4879.74	4979.35	1.74	ppb
Molybdenum	94-1	5034.25	4935.57	5048.19	5006.00	1.23	ppb
Molybdenum	95-1	5030.65	4928.88	4980.04	4979.86	1.02	ppb
Molybdenum	96-1	5014.38	4955.16	4979.66	4983.07	0.60	ppb
Molybdenum	97-1	4993.04	5005.80	4996.32	4998.39	0.13	ppb
Molybdenum	98-1	5095.25	4928.33	5034.12	5019.23	1.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	517.74	525.90	521.03	521.56	0.79	ppb
Phosphorus	31-2	10126.27	10192.39	9846.60	10055.08	1.83	ppb
Potassium	39-2	25173.24	25230.84	25134.48	25179.52	0.19	ppb
Rhodium	103-1				92		%
Rhodium	103-2				92		%
Scandium	45-1				95		%
Scandium	45-2				94		%
Selenium	82-1	500.59	493.51	501.04	498.38	0.85	ppb
Selenium	77-2	518.77	527.53	482.95	509.75	4.63	ppb
Selenium	78-2	505.18	502.98	505.84	504.67	0.30	ppb
Silicon	28-1	508.21	497.10	523.30	509.54	2.58	ppb
Silver	107-1	501.92	509.76	497.51	503.06	1.23	ppb
Silver	109-1	497.88	509.95	497.17	501.67	1.43	ppb
Sodium	23-2	53173.26	52837.46	52386.76	52799.16	0.75	ppb
Strontium	86-1	12581.06	12478.76	12680.96	12580.26	0.80	ppb
Strontium	88-1	12493.75	12503.53	12449.03	12482.10	0.23	ppb
Sulfur	34-1	9935.80	9769.35	9932.80	9879.32	0.96	ppb
Terbium	159-1				98		%
Terbium	159-2				97		%
Thallium	203-1	496.66	487.61	506.97	497.08	1.95	ppb
Thallium	205-1	496.04	492.05	505.68	497.92	1.41	ppb
Tin	118-1	500.94	506.29	501.86	503.03	0.57	ppb
Titanium	47-1	4972.12	4879.93	5014.09	4955.38	1.38	ppb
Uranium	238-1	491.84	496.77	495.95	494.85	0.53	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.36	507.69	499.30	506.12	1.22	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	5180.20	5201.74	5170.78	5184.24	0.31	ppb
Zirconium	90-1	502.35	494.57	505.00	500.64	1.08	ppb
Zirconium	91-1	507.10	497.78	498.58	501.15	1.03	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20288.24	20573.29	20364.28	20408.60	0.72	ppb
Antimony	121-1	987.84	1001.63	1004.40	997.96	0.89	ppb
Arsenic	75-2	973.77	1020.50	1001.74	998.67	2.35	ppb
Barium	135-1	4925.09	4991.07	5011.23	4975.80	0.91	ppb
Barium	137-1	4837.21	5030.91	5056.97	4975.03	2.41	ppb
Beryllium	9-1	997.11	987.25	990.00	991.45	0.51	ppb
Bismuth	209-1				94		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	981.09	999.66	1007.81	996.18	1.37	ppb
Cadmium	106-1	977.68	1007.76	1008.63	998.02	1.77	ppb
Cadmium	111-1	979.30	1007.71	1005.02	997.34	1.57	ppb
Calcium	43-1	101973.61	99587.42	101413.22	100991.42	1.24	ppb
Calcium	44-1	101718.88	99943.18	101370.84	101010.97	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1019.17	994.76	997.91	1003.95	1.32	ppb
Cobalt	59-2	1001.60	996.68	982.98	993.75	0.97	ppb
Copper	63-2	9881.33	9923.68	9866.38	9890.47	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				99		%
Holmium	165-2				96		%
Indium	115-1				92		%
Indium	115-2				87		%
Iron	54-2	52349.68	51968.43	51797.47	52038.53	0.54	ppb
Iron	56-2	52078.63	51440.39	50851.35	51456.79	1.19	ppb
Iron	57-2	50896.62	51114.22	50953.15	50988.00	0.22	ppb
Krypton	83-1						cps
Lead	206-1	4945.87	5001.64	5051.26	4999.59	1.05	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4978.94	4998.80	4997.85	4991.86	0.22	ppb
Lead	208-1	4946.79	4999.31	5027.32	4991.14	0.82	ppb
Lithium	6-1				91		%
Magnesium	24-2	100928.58	100761.36	102266.22	101318.72	0.81	ppb
Manganese	55-2	10053.64	10004.23	10004.10	10020.65	0.29	ppb
Molybdenum	94-1	10004.24	10004.16	9953.74	9987.38	0.29	ppb
Molybdenum	95-1	10075.99	10005.97	9909.04	9997.00	0.84	ppb
Molybdenum	96-1	10007.80	9987.66	9977.93	9991.13	0.15	ppb
Molybdenum	97-1	9936.78	9982.93	10032.32	9984.01	0.48	ppb
Molybdenum	98-1	9962.74	9982.74	9982.39	9975.96	0.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	994.62	982.64	1002.31	993.19	1.00	ppb
Phosphorus	31-2	20305.92	19732.30	20008.78	20015.67	1.43	ppb
Potassium	39-2	49152.64	48869.39	48473.84	48831.96	0.70	ppb
Rhodium	103-1				90		%
Rhodium	103-2				89		%
Scandium	45-1				94		%
Scandium	45-2				94		%
Selenium	82-1	1011.77	993.75	989.18	998.23	1.20	ppb
Selenium	77-2	964.63	1026.42	993.03	994.69	3.11	ppb
Selenium	78-2	972.12	1001.87	1011.45	995.15	2.06	ppb
Silicon	28-1	998.80	972.77	1003.54	991.70	1.67	ppb
Silver	107-1	976.57	1002.45	1002.19	993.74	1.50	ppb
Silver	109-1	979.31	995.39	1011.61	995.44	1.62	ppb
Sodium	23-2	104414.48	102980.73	104331.49	103908.90	0.77	ppb
Strontium	86-1	25000.20	25091.78	24806.18	24966.05	0.58	ppb
Strontium	88-1	24939.68	24924.58	25057.63	24973.96	0.29	ppb
Sulfur	34-1	20287.13	19627.02	20061.56	19991.90	1.68	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	984.31	1005.31	1010.39	1000.01	1.38	ppb
Thallium	205-1	989.50	997.97	1014.22	1000.56	1.26	ppb
Tin	118-1	980.31	1001.11	1008.58	996.67	1.47	ppb
Titanium	47-1	10025.65	9921.83	10101.18	10016.22	0.90	ppb
Uranium	238-1	1002.58	996.12	1014.96	1004.55	0.95	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1009.23	1001.24	992.76	1001.08	0.82	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	9961.54	9943.43	9869.80	9924.92	0.49	ppb
Zirconium	90-1	1009.51	991.58	995.18	998.76	0.95	ppb
Zirconium	91-1	1024.24	981.03	990.19	998.49	2.28	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99700.35	100746.96	99327.25	99924.85	0.74	ppb
Antimony	121-1	0.98	0.94	0.97	0.96	2.10	ppb
Arsenic	75-2	0.48	0.61	0.53	0.54	12.74	ppb
Barium	135-1	1.76	1.73	1.71	1.73	1.22	ppb
Barium	137-1	1.80	1.74	1.69	1.74	3.21	ppb
Beryllium	9-1	0.37	0.34	0.30	0.34	11.21	ppb
Bismuth	209-1				81		%
Bismuth	209-2				82		%
Bromine	81-1						cps
Cadmium	108-1	0.62	0.73	0.70	0.68	8.36	ppb
Cadmium	106-1	-0.03	-0.53	-0.64	-0.40		ppb
Cadmium	111-1	0.11	0.06	0.05	0.07	43.78	ppb
Calcium	43-1	496343.93	495521.57	507149.80	499671.77	1.30	ppb
Calcium	44-1	492528.25	498138.35	508554.71	499740.43	1.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.03	2.97	2.88	2.96	2.56	ppb
Cobalt	59-2	2.19	2.11	2.02	2.11	4.00	ppb
Copper	63-2	1.85	1.72	1.66	1.75	5.55	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				92		%
Holmium	165-2				93		%
Indium	115-1				84		%
Indium	115-2				84		%
Iron	54-2	253916.25	251435.32	242913.23	249421.60	2.31	ppb
Iron	56-2	253964.52	249552.24	245214.62	249577.13	1.75	ppb
Iron	57-2	254529.65	249864.43	244682.59	249692.22	1.97	ppb
Krypton	83-1						cps
Lead	206-1	1.01	0.95	0.89	0.95	6.64	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.01	0.91	0.89	0.94	6.52	ppb
Lead	208-1	0.98	0.92	0.90	0.94	4.74	ppb
Lithium	6-1				81		%
Magnesium	24-2	507109.87	492734.16	498996.09	499613.38	1.44	ppb
Manganese	55-2	4.49	4.62	4.30	4.47	3.58	ppb
Molybdenum	94-1	7.44	7.41	7.26	7.37	1.26	ppb
Molybdenum	95-1	5.30	5.21	5.23	5.25	0.87	ppb
Molybdenum	96-1	5.68	5.43	5.41	5.51	2.67	ppb
Molybdenum	97-1	5.32	5.43	5.16	5.30	2.51	ppb
Molybdenum	98-1	5.15	5.15	5.03	5.11	1.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.38	3.33	3.08	3.26	4.85	ppb
Phosphorus	31-2	-4.23	-13.76	-21.87	-13.29		ppb
Potassium	39-2	251935.11	251155.08	247618.73	250236.30	0.92	ppb
Rhodium	103-1				78		%
Rhodium	103-2				81		%
Scandium	45-1				87		%
Scandium	45-2				89		%
Selenium	82-1	-0.18	-0.10	0.13	-0.05		ppb
Selenium	77-2	1.75	0.00	0.85	0.87	100.96	ppb
Selenium	78-2	0.16	-0.59	0.87	0.15	488.22	ppb
Silicon	28-1	14.29	14.33	13.83	14.15	1.96	ppb
Silver	107-1	0.20	0.17	0.18	0.18	6.61	ppb
Silver	109-1	0.18	0.18	0.17	0.17	4.43	ppb
Sodium	23-2	500833.60	502317.80	493546.85	498899.42	0.94	ppb
Strontium	86-1	77.20	75.89	75.51	76.20	1.17	ppb
Strontium	88-1	78.55	78.39	78.18	78.37	0.24	ppb
Sulfur	34-1	-705.48	-661.10	-358.12	-574.90		ppb
Terbium	159-1				91		%
Terbium	159-2				93		%
Thallium	203-1	0.10	0.08	0.08	0.09	11.95	ppb
Thallium	205-1	0.10	0.09	0.07	0.09	13.80	ppb
Tin	118-1	0.06	0.07	0.03	0.06	37.95	ppb
Titanium	47-1	1.31	1.28	1.30	1.30	1.43	ppb
Uranium	238-1	0.05	0.05	0.04	0.05	11.00	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.23	0.29	0.26	0.26	11.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				92		%
Zinc	66-2	5.53	5.13	4.91	5.19	5.99	ppb
Zirconium	90-1	1.67	1.67	1.65	1.66	0.68	ppb
Zirconium	91-1	1.68	1.64	1.58	1.63	3.17	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	492.67	503.21	458.18	484.69	4.86	ppb
Antimony	121-1	209.61	207.34	207.05	208.00	0.68	ppb
Arsenic	75-2	208.44	210.93	202.22	207.20	2.17	ppb
Barium	135-1	100.63	101.54	101.53	101.23	0.51	ppb
Barium	137-1	102.05	102.83	104.62	103.17	1.27	ppb
Beryllium	9-1	104.95	104.95	104.34	104.75	0.34	ppb
Bismuth	209-1				98		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	87.96	88.27	88.69	88.31	0.41	ppb
Cadmium	106-1	85.28	83.88	82.47	83.88	1.68	ppb
Cadmium	111-1	102.06	105.18	103.20	103.48	1.53	ppb
Calcium	43-1	1943.51	1957.24	1917.68	1939.47	1.04	ppb
Calcium	44-1	2025.41	1986.54	1998.92	2003.62	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	102.06	101.54	94.40	99.33	4.31	ppb
Cobalt	59-2	105.50	105.80	98.36	103.22	4.08	ppb
Copper	63-2	107.72	107.78	100.02	105.18	4.24	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				97		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	54-2	2186.54	2156.87	2014.72	2119.37	4.33	ppb
Iron	56-2	2132.76	2140.12	1936.81	2069.89	5.57	ppb
Iron	57-2	2074.04	2048.96	1886.44	2003.15	5.08	ppb
Krypton	83-1						cps
Lead	206-1	200.77	211.11	216.00	209.30	3.72	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	192.97	201.54	204.58	199.70	3.02	ppb
Lead	208-1	196.67	202.35	206.76	201.93	2.51	ppb
Lithium	6-1				97		%
Magnesium	24-2	1151.66	1161.37	1076.51	1129.85	4.11	ppb
Manganese	55-2	101.16	99.50	93.40	98.02	4.17	ppb
Molybdenum	94-1	0.09	0.09	0.10	0.09	8.13	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.26	ppb
Molybdenum	96-1	0.12	0.12	0.10	0.11	10.63	ppb
Molybdenum	97-1	0.02	0.02	0.03	0.02	17.05	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	13.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.98	104.16	96.25	101.46	4.45	ppb
Phosphorus	31-2	-22.56	-19.41	-30.20	-24.06		ppb
Potassium	39-2	1955.54	1949.25	1813.35	1906.05	4.22	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	212.82	211.98	210.81	211.87	0.48	ppb
Selenium	77-2	230.49	221.19	213.70	221.79	3.79	ppb
Selenium	78-2	211.93	219.55	202.75	211.41	3.98	ppb
Silicon	28-1	1.14	0.85	0.48	0.83	40.39	ppb
Silver	107-1	49.05	50.09	50.01	49.72	1.17	ppb
Silver	109-1	49.38	51.00	50.35	50.24	1.62	ppb
Sodium	23-2	2148.13	2115.36	2017.92	2093.80	3.23	ppb
Strontium	86-1	5.90	5.62	6.13	5.88	4.36	ppb
Strontium	88-1	5.81	5.65	5.80	5.75	1.53	ppb
Sulfur	34-1	-292.87	-366.87	-614.22	-424.65		ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	197.78	206.62	209.22	204.54	2.93	ppb
Thallium	205-1	196.76	204.20	205.28	202.08	2.29	ppb
Tin	118-1	-0.01	0.00	-0.02	-0.01		ppb
Titanium	47-1	0.26	0.24	0.27	0.25	5.50	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	48.93	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	99.41	99.26	92.22	96.96	4.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	200.90	199.91	186.07	195.63	4.24	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	28.15	ppb
Zirconium	91-1	0.10	0.11	0.10	0.10	8.65	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.59	0.17	0.53	0.04	1606.02	ppb
Antimony	121-1	0.05	0.04	0.03	0.04	20.56	ppb
Arsenic	75-2	-0.01	-0.03	-0.04	-0.03		ppb
Barium	135-1	-0.12	-0.12	-0.13	-0.12		ppb
Barium	137-1	-0.12	-0.12	-0.12	-0.12		ppb
Beryllium	9-1	0.04	0.03	0.03	0.03	12.46	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.04	0.06	0.06	32.67	ppb
Cadmium	106-1	-1.16	-0.43	-0.81	-0.80		ppb
Cadmium	111-1	-0.08	-0.03	-0.06	-0.06		ppb
Calcium	43-1	-30.02	-29.79	-29.94	-29.91		ppb
Calcium	44-1	-30.12	-29.67	-30.25	-30.01		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.02	0.05	0.02	135.61	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	66.05	ppb
Copper	63-2	-0.04	-0.03	-0.07	-0.05		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				98		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				98		%
Iron	54-2	0.59	0.00	0.09	0.22	142.59	ppb
Iron	56-2	0.22	0.23	0.16	0.20	19.36	ppb
Iron	57-2	-0.28	0.66	-0.03	0.12	410.17	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.03	0.02	0.03	15.16	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.02	0.02	0.02	19.79	ppb
Lead	208-1	0.03	0.02	0.02	0.03	13.70	ppb
Lithium	6-1				98		%
Magnesium	24-2	-5.27	-4.29	-4.85	-4.80		ppb
Manganese	55-2	0.00	0.00	0.02	0.01	180.09	ppb
Molybdenum	94-1	0.00	0.01	0.00	0.00	1618.02	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	167.88	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	115.72	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	832.99	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	416.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.10	-0.10	-0.11	-0.10		ppb
Phosphorus	31-2	-21.81	-22.46	-9.85	-18.04		ppb
Potassium	39-2	7.30	5.91	7.33	6.85	11.84	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	-0.05	-0.26	0.00	-0.10		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.37	0.34	-0.14	-0.06		ppb
Silicon	28-1	-0.07	0.11	-0.20	-0.05		ppb
Silver	107-1	0.02	0.02	0.01	0.02	23.18	ppb
Silver	109-1	0.02	0.02	0.02	0.02	8.56	ppb
Sodium	23-2	8.23	9.07	8.37	8.56	5.24	ppb
Strontium	86-1	-0.10	-0.47	-0.50	-0.36		ppb
Strontium	88-1	-0.20	-0.25	-0.21	-0.22		ppb
Sulfur	34-1	-358.79	-289.55	-359.36	-335.90		ppb
Terbium	159-1				98		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.01	0.01	0.01	20.63	ppb
Thallium	205-1	0.02	0.01	0.01	0.01	26.16	ppb
Tin	118-1	0.00	-0.01	-0.03	-0.01		ppb
Titanium	47-1	0.01	0.00	0.03	0.01	141.62	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	849.65	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	-0.01	0.00	0.00		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	-0.14	-0.12	-0.15	-0.14		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	97043.85	99619.93	96092.96	97585.58	1.87	ppb
Antimony	121-1	1.13	1.14	1.18	1.15	2.44	ppb
Arsenic	75-2	0.39	0.22	0.19	0.27	39.87	ppb
Barium	135-1	1.25	1.29	1.32	1.29	2.75	ppb
Barium	137-1	1.27	1.33	1.35	1.32	3.11	ppb
Beryllium	9-1	0.32	0.31	0.31	0.31	1.58	ppb
Bismuth	209-1				90		%
Bismuth	209-2				86		%
Bromine	81-1						cps
Cadmium	108-1	18.76	17.62	18.57	18.32	3.34	ppb
Cadmium	106-1	-0.90	-1.27	-1.56	-1.24		ppb
Cadmium	111-1	0.62	0.59	0.53	0.58	8.20	ppb
Calcium	43-1	102175.02	102636.65	104303.15	103038.27	1.09	ppb
Calcium	44-1	102474.28	103419.68	103785.35	103226.44	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.10	20.31	19.77	20.06	1.34	ppb
Cobalt	59-2	1.18	1.19	1.15	1.17	1.69	ppb
Copper	63-2	8.32	8.34	8.19	8.28	0.99	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				97		%
Holmium	165-2				93		%
Indium	115-1				91		%
Indium	115-2				86		%
Iron	54-2	107177.35	106118.28	104087.93	105794.52	1.48	ppb
Iron	56-2	107911.21	107196.23	104753.29	106620.24	1.55	ppb
Iron	57-2	105618.39	107810.97	103445.14	105624.83	2.07	ppb
Krypton	83-1						cps
Lead	206-1	4.85	4.81	4.68	4.78	1.87	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.43	4.34	4.28	4.35	1.78	ppb
Lead	208-1	4.53	4.49	4.41	4.48	1.39	ppb
Lithium	6-1				89		%
Magnesium	24-2	99308.99	101365.85	97104.94	99259.93	2.15	ppb
Manganese	55-2	7.78	7.84	7.76	7.79	0.53	ppb
Molybdenum	94-1	1654.63	1635.13	1647.79	1645.85	0.60	ppb
Molybdenum	95-1	2027.34	1993.67	2009.17	2010.06	0.84	ppb
Molybdenum	96-1	1985.56	1943.50	1978.26	1969.11	1.14	ppb
Molybdenum	97-1	2025.02	2014.11	2008.76	2015.96	0.41	ppb
Molybdenum	98-1	2018.21	2007.93	2032.23	2019.46	0.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.08	5.10	5.13	5.10	0.51	ppb
Phosphorus	31-2	106656.85	106922.41	103896.91	105825.39	1.58	ppb
Potassium	39-2	102312.44	102078.12	98739.28	101043.28	1.98	ppb
Rhodium	103-1				87		%
Rhodium	103-2				86		%
Scandium	45-1				92		%
Scandium	45-2				90		%
Selenium	82-1	0.10	0.25	0.03	0.13	87.84	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.08	-0.07	-0.84	-0.33		ppb
Silicon	28-1	27.77	28.28	29.76	28.60	3.62	ppb
Silver	107-1	0.07	0.05	0.04	0.06	26.47	ppb
Silver	109-1	0.07	0.05	0.04	0.05	29.44	ppb
Sodium	23-2	108993.49	109909.17	107393.17	108765.28	1.17	ppb
Strontium	86-1	856.87	850.64	859.17	855.56	0.52	ppb
Strontium	88-1	902.04	867.39	870.37	879.93	2.18	ppb
Sulfur	34-1	100610.90	100422.16	104669.97	101901.01	2.36	ppb
Terbium	159-1				95		%
Terbium	159-2				93		%
Thallium	203-1	0.09	0.10	0.09	0.09	6.77	ppb
Thallium	205-1	0.10	0.09	0.10	0.10	2.14	ppb
Tin	118-1	0.18	0.21	0.22	0.20	9.64	ppb
Titanium	47-1	2132.90	2113.17	2110.61	2118.89	0.58	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	7.50	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.14	0.12	0.15	0.14	8.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	11.72	11.50	11.10	11.44	2.77	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	30.03	ppb
Zirconium	91-1	0.01	0.01	0.02	0.01	18.79	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99280.10	98681.38	95183.28	97714.92	2.26	ppb
Antimony	121-1	21.38	21.38	21.17	21.31	0.57	ppb
Arsenic	75-2	21.33	22.32	21.52	21.72	2.43	ppb
Barium	135-1	21.20	21.32	21.35	21.29	0.37	ppb
Barium	137-1	21.48	21.73	21.90	21.70	0.98	ppb
Beryllium	9-1	21.44	21.10	21.29	21.28	0.80	ppb
Bismuth	209-1				90		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	34.67	33.90	33.95	34.17	1.27	ppb
Cadmium	106-1	14.59	14.55	13.67	14.27	3.66	ppb
Cadmium	111-1	20.55	20.30	19.82	20.23	1.84	ppb
Calcium	43-1	100393.36	103229.02	104762.51	102794.96	2.16	ppb
Calcium	44-1	102078.47	103175.25	103082.59	102778.77	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	40.54	40.56	39.45	40.18	1.58	ppb
Cobalt	59-2	21.81	21.50	21.56	21.62	0.74	ppb
Copper	63-2	29.00	28.91	28.82	28.91	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				96		%
Holmium	165-2				92		%
Indium	115-1				92		%
Indium	115-2				85		%
Iron	54-2	108123.62	108780.15	106968.30	107957.36	0.85	ppb
Iron	56-2	109423.60	108827.71	106513.72	108255.01	1.42	ppb
Iron	57-2	107174.66	106197.92	105354.26	106242.28	0.86	ppb
Krypton	83-1						cps
Lead	206-1	25.05	25.09	25.65	25.26	1.33	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.89	24.38	24.80	24.36	1.86	ppb
Lead	208-1	24.36	24.46	24.83	24.55	1.00	ppb
Lithium	6-1				90		%
Magnesium	24-2	99932.21	98267.68	97569.61	98589.83	1.23	ppb
Manganese	55-2	27.45	27.88	27.16	27.50	1.31	ppb
Molybdenum	94-1	1609.83	1616.16	1622.28	1616.09	0.39	ppb
Molybdenum	95-1	1975.17	1981.13	2010.38	1988.89	0.95	ppb
Molybdenum	96-1	1943.38	1936.78	1959.17	1946.44	0.59	ppb
Molybdenum	97-1	2005.80	1992.14	2016.25	2004.73	0.60	ppb
Molybdenum	98-1	1997.98	1998.55	2030.84	2009.12	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.52	25.64	25.41	25.52	0.45	ppb
Phosphorus	31-2	105674.71	106087.48	105072.05	105611.41	0.48	ppb
Potassium	39-2	102463.85	102687.03	100741.72	101964.20	1.04	ppb
Rhodium	103-1				89		%
Rhodium	103-2				87		%
Scandium	45-1				94		%
Scandium	45-2				91		%
Selenium	82-1	20.56	21.78	21.92	21.42	3.50	ppb
Selenium	77-2	22.89	20.20	21.37	21.49	6.28	ppb
Selenium	78-2	21.19	21.39	17.35	19.98	11.41	ppb
Silicon	28-1	29.94	30.65	31.64	30.74	2.78	ppb
Silver	107-1	18.70	18.86	18.77	18.78	0.44	ppb
Silver	109-1	18.95	19.09	19.01	19.02	0.37	ppb
Sodium	23-2	112491.90	110628.65	108160.63	110427.06	1.97	ppb
Strontium	86-1	824.43	848.87	845.91	839.74	1.59	ppb
Strontium	88-1	880.85	892.42	881.47	884.91	0.74	ppb
Sulfur	34-1	98648.26	102053.71	103194.44	101298.80	2.33	ppb
Terbium	159-1				97		%
Terbium	159-2				92		%
Thallium	203-1	20.26	20.71	20.94	20.64	1.66	ppb
Thallium	205-1	20.59	20.81	21.05	20.82	1.11	ppb
Tin	118-1	0.15	0.13	0.12	0.14	10.84	ppb
Titanium	47-1	2060.49	2098.46	2102.47	2087.14	1.11	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.33	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	20.52	20.13	20.18	20.28	1.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				95		%
Yttrium	89-2				90		%
Zinc	66-2	31.64	31.72	30.93	31.43	1.38	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	20.57	ppb
Zirconium	91-1	0.02	0.02	0.03	0.02	15.89	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51838.56	51903.46	50514.97	51419.00	1.52	ppb
Antimony	121-1	502.05	495.79	491.24	496.36	1.09	ppb
Arsenic	75-2	498.61	509.12	509.06	505.60	1.20	ppb
Barium	135-1	2573.86	2546.67	2464.70	2528.41	2.25	ppb
Barium	137-1	2581.21	2562.61	2478.13	2540.65	2.16	ppb
Beryllium	9-1	527.52	527.94	508.05	521.17	2.18	ppb
Bismuth	209-1				86		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	494.12	504.69	479.38	492.73	2.58	ppb
Cadmium	106-1	499.09	496.09	484.70	493.29	1.54	ppb
Cadmium	111-1	504.04	498.93	477.41	493.46	2.86	ppb
Calcium	43-1	253273.45	251233.64	254732.91	253080.00	0.69	ppb
Calcium	44-1	255112.06	251113.24	254724.03	253649.77	0.87	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	495.72	504.85	499.52	500.03	0.92	ppb
Cobalt	59-2	495.13	494.17	489.03	492.78	0.67	ppb
Copper	63-2	4741.79	4720.07	4760.04	4740.63	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				92		%
Holmium	165-2				91		%
Indium	115-1				86		%
Indium	115-2				83		%
Iron	54-2	127801.63	126338.95	127209.89	127116.82	0.58	ppb
Iron	56-2	127519.37	125970.97	127205.30	126898.55	0.65	ppb
Iron	57-2	125393.36	125772.21	125036.00	125400.53	0.29	ppb
Krypton	83-1						cps
Lead	206-1	2573.22	2554.65	2546.02	2557.96	0.54	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2572.99	2552.51	2554.17	2559.89	0.44	ppb
Lead	208-1	2571.69	2557.49	2555.62	2561.60	0.34	ppb
Lithium	6-1				86		%
Magnesium	24-2	251302.90	250326.99	247789.97	249806.62	0.73	ppb
Manganese	55-2	4910.80	4904.90	4902.17	4905.96	0.09	ppb
Molybdenum	94-1	5050.58	5094.38	4993.06	5046.01	1.01	ppb
Molybdenum	95-1	5050.99	5075.14	5008.22	5044.78	0.67	ppb
Molybdenum	96-1	5039.47	5091.50	5064.96	5065.31	0.51	ppb
Molybdenum	97-1	5117.04	5070.56	5069.25	5085.62	0.54	ppb
Molybdenum	98-1	5143.10	5007.34	5038.19	5062.87	1.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	450.41	450.64	450.68	450.58	0.03	ppb
Phosphorus	31-2	10192.56	10070.64	10067.68	10110.29	0.70	ppb
Potassium	39-2	123310.54	123982.60	124257.85	123850.33	0.39	ppb
Rhodium	103-1				82		%
Rhodium	103-2				83		%
Scandium	45-1				91		%
Scandium	45-2				91		%
Selenium	82-1	492.99	494.39	499.61	495.67	0.70	ppb
Selenium	77-2	487.02	513.24	501.86	500.71	2.63	ppb
Selenium	78-2	483.54	502.75	495.18	493.83	1.96	ppb
Silicon	28-1	515.87	511.53	511.80	513.07	0.47	ppb
Silver	107-1	484.72	487.45	477.58	483.25	1.05	ppb
Silver	109-1	485.97	489.45	473.41	482.94	1.75	ppb
Sodium	23-2	262187.91	260548.34	258687.94	260474.73	0.67	ppb
Strontium	86-1	12989.73	12834.46	12941.70	12921.96	0.62	ppb
Strontium	88-1	12645.43	12689.57	12648.06	12661.02	0.20	ppb
Sulfur	34-1	10196.35	10455.13	10773.55	10475.01	2.76	ppb
Terbium	159-1				93		%
Terbium	159-2				91		%
Thallium	203-1	514.98	508.33	506.09	509.80	0.91	ppb
Thallium	205-1	518.12	508.68	512.00	512.93	0.93	ppb
Tin	118-1	502.34	499.55	480.16	494.02	2.45	ppb
Titanium	47-1	5043.18	5069.46	5009.28	5040.64	0.60	ppb
Uranium	238-1	522.15	523.94	521.50	522.53	0.24	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	502.97	513.22	501.10	505.76	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				90		%
Yttrium	89-2				90		%
Zinc	66-2	4835.01	4761.36	4800.32	4798.90	0.77	ppb
Zirconium	90-1	511.84	508.10	509.69	509.88	0.37	ppb
Zirconium	91-1	509.85	515.91	510.88	512.21	0.63	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.36	1.03	0.82	1.07	24.99	ppb
Antimony	121-1	0.15	0.13	0.11	0.13	13.66	ppb
Arsenic	75-2	-0.02	-0.01	-0.01	-0.02		ppb
Barium	135-1	0.05	0.01	0.02	0.03	74.52	ppb
Barium	137-1	0.08	0.00	0.00	0.03	156.26	ppb
Beryllium	9-1	0.17	0.14	0.12	0.14	15.32	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.06	0.07	0.06	11.56	ppb
Cadmium	106-1	-0.88	-0.78	-0.78	-0.82		ppb
Cadmium	111-1	-0.04	-0.04	-0.04	-0.04		ppb
Calcium	43-1	-19.87	-23.47	-22.84	-22.06		ppb
Calcium	44-1	-20.62	-21.83	-21.90	-21.45		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.02	-0.02	-0.02		ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	7.69	ppb
Copper	63-2	0.12	0.05	0.06	0.08	48.99	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				97		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	3.66	3.09	3.39	3.38	8.37	ppb
Iron	56-2	3.37	3.09	3.04	3.16	5.67	ppb
Iron	57-2	2.77	2.59	2.66	2.67	3.29	ppb
Krypton	83-1						cps
Lead	206-1	0.25	0.20	0.21	0.22	13.05	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.20	0.21	0.22	8.69	ppb
Lead	208-1	0.24	0.21	0.21	0.22	9.46	ppb
Lithium	6-1				97		%
Magnesium	24-2	-4.05	-4.16	-4.09	-4.10		ppb
Manganese	55-2	0.11	0.07	0.09	0.09	18.41	ppb
Molybdenum	94-1	0.23	0.17	0.16	0.18	20.32	ppb
Molybdenum	95-1	0.21	0.16	0.14	0.17	19.38	ppb
Molybdenum	96-1	0.21	0.16	0.15	0.18	18.33	ppb
Molybdenum	97-1	0.21	0.15	0.15	0.17	19.27	ppb
Molybdenum	98-1	0.21	0.18	0.14	0.18	20.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.12	-0.12	-0.12	-0.12		ppb
Phosphorus	31-2	-17.32	-27.23	-23.79	-22.78		ppb
Potassium	39-2	55.38	51.85	52.53	53.25	3.51	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	0.03	-0.12	-0.09	-0.06		ppb
Selenium	77-2	0.00	0.82	0.00	0.27	173.21	ppb
Selenium	78-2	-0.12	-0.37	-0.60	-0.37		ppb
Silicon	28-1	0.62	1.31	0.92	0.95	36.31	ppb
Silver	107-1	0.06	0.05	0.04	0.05	18.84	ppb
Silver	109-1	0.06	0.05	0.05	0.05	12.37	ppb
Sodium	23-2	84.24	78.52	79.72	80.82	3.73	ppb
Strontium	86-1	-0.26	-0.23	-0.37	-0.29		ppb
Strontium	88-1	0.09	-0.11	-0.03	-0.02		ppb
Sulfur	34-1	-1094.97	-799.21	-901.97	-932.05		ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	0.09	0.07	0.07	0.07	17.57	ppb
Thallium	205-1	0.08	0.08	0.07	0.08	8.72	ppb
Tin	118-1	0.00	0.01	0.01	0.01	47.63	ppb
Titanium	47-1	0.14	0.14	0.15	0.14	5.34	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	31.74	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	0.10	-0.05	-0.05	0.00		ppb
Zirconium	90-1	0.02	0.01	0.01	0.02	13.96	ppb
Zirconium	91-1	0.02	0.02	0.01	0.01	33.15	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.55	0.85	0.75	0.72	21.11	ppb
Antimony	121-1	0.04	0.03	0.03	0.03	9.02	ppb
Arsenic	75-2	0.00	0.01	0.00	0.00	546.23	ppb
Barium	135-1	-0.07	-0.07	-0.06	-0.07		ppb
Barium	137-1	-0.07	-0.07	-0.08	-0.07		ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	15.99	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.09	0.07	0.06	49.67	ppb
Cadmium	106-1	-0.44	-1.15	-0.71	-0.77		ppb
Cadmium	111-1	-0.03	-0.08	-0.04	-0.05		ppb
Calcium	43-1	-27.72	-27.16	-28.01	-27.63		ppb
Calcium	44-1	-26.46	-27.38	-27.64	-27.16		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.00	-0.01	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	20.33	ppb
Copper	63-2	0.05	0.05	0.07	0.06	21.67	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				99		%
Holmium	165-2				97		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	1.37	1.70	2.09	1.72	21.09	ppb
Iron	56-2	2.08	1.65	1.97	1.90	11.78	ppb
Iron	57-2	1.51	0.86	2.10	1.49	41.58	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.13	0.10	0.12	15.63	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.13	0.11	0.12	9.27	ppb
Lead	208-1	0.13	0.12	0.11	0.12	10.07	ppb
Lithium	6-1				97		%
Magnesium	24-2	-4.81	-6.35	-5.18	-5.45		ppb
Manganese	55-2	0.04	0.02	0.05	0.04	46.30	ppb
Molybdenum	94-1	0.06	0.05	0.04	0.05	13.17	ppb
Molybdenum	95-1	0.05	0.05	0.05	0.05	4.20	ppb
Molybdenum	96-1	0.05	0.04	0.04	0.04	15.79	ppb
Molybdenum	97-1	0.05	0.04	0.03	0.04	28.34	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	7.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.10	-0.14	-0.12	-0.12		ppb
Phosphorus	31-2	-18.38	-16.98	-13.15	-16.17		ppb
Potassium	39-2	42.76	36.06	36.73	38.52	9.58	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	0.27	0.11	0.04	0.14	85.37	ppb
Selenium	77-2	0.00	0.00	0.82	0.27	173.21	ppb
Selenium	78-2	-0.84	-0.39	0.57	-0.22		ppb
Silicon	28-1	0.40	0.20	-0.88	-0.09		ppb
Silver	107-1	0.02	0.02	0.02	0.02	6.49	ppb
Silver	109-1	0.01	0.02	0.02	0.02	12.72	ppb
Sodium	23-2	70.39	60.59	64.03	65.01	7.65	ppb
Strontium	86-1	0.12	-0.36	-0.31	-0.18		ppb
Strontium	88-1	-0.16	-0.17	-0.16	-0.16		ppb
Sulfur	34-1	-611.34	-727.50	-834.53	-724.45		ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.04	0.04	0.03	0.04	10.33	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	9.50	ppb
Tin	118-1	-0.02	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.30	0.30	0.30	0.30	0.82	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	31.27	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	0.07	0.08	0.05	0.07	19.41	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	75.88	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.47	36.84	39.47	39.26	5.91	ppb
Antimony	121-1	3.94	4.02	4.06	4.01	1.54	ppb
Arsenic	75-2	2.18	2.18	1.99	2.12	5.36	ppb
Barium	135-1	19.24	19.40	19.15	19.26	0.66	ppb
Barium	137-1	19.53	19.58	19.75	19.62	0.59	ppb
Beryllium	9-1	2.10	2.04	2.09	2.07	1.64	ppb
Bismuth	209-1				101		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	1.97	1.94	2.20	2.04	6.98	ppb
Cadmium	106-1	1.20	1.72	1.01	1.31	28.27	ppb
Cadmium	111-1	2.04	2.09	1.96	2.03	3.18	ppb
Calcium	43-1	982.27	960.46	972.28	971.67	1.12	ppb
Calcium	44-1	967.19	963.53	966.05	965.59	0.19	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.76	3.83	3.77	3.79	0.98	ppb
Cobalt	59-2	2.03	2.03	2.12	2.06	2.35	ppb
Copper	63-2	4.40	4.51	4.61	4.51	2.40	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				100		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	413.27	416.36	416.33	415.32	0.43	ppb
Iron	56-2	411.97	413.77	416.47	414.07	0.55	ppb
Iron	57-2	393.07	405.12	415.34	404.51	2.76	ppb
Krypton	83-1						cps
Lead	206-1	2.01	1.99	1.99	1.99	0.57	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.97	1.97	2.05	2.00	2.37	ppb
Lead	208-1	1.98	1.98	2.02	1.99	1.25	ppb
Lithium	6-1				98		%
Magnesium	24-2	932.63	952.37	952.34	945.78	1.20	ppb
Manganese	55-2	2.01	2.05	1.97	2.01	1.92	ppb
Molybdenum	94-1	10.88	11.29	11.42	11.20	2.51	ppb
Molybdenum	95-1	9.26	9.41	9.60	9.42	1.82	ppb
Molybdenum	96-1	9.36	9.71	9.87	9.64	2.70	ppb
Molybdenum	97-1	9.46	9.57	9.92	9.65	2.48	ppb
Molybdenum	98-1	9.30	9.48	9.61	9.46	1.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.81	1.98	1.91	1.90	4.40	ppb
Phosphorus	31-2	23.50	15.60	28.39	22.49	28.69	ppb
Potassium	39-2	1007.60	982.82	1029.66	1006.69	2.33	ppb
Rhodium	103-1				101		%
Rhodium	103-2				102		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	10.01	10.43	10.73	10.39	3.50	ppb
Selenium	77-2	13.66	10.36	13.81	12.61	15.49	ppb
Selenium	78-2	5.86	10.39	8.97	8.41	27.54	ppb
Silicon	28-1	22.42	21.66	21.62	21.90	2.05	ppb
Silver	107-1	1.97	2.01	2.05	2.01	1.85	ppb
Silver	109-1	1.98	2.04	2.00	2.01	1.67	ppb
Sodium	23-2	1047.66	1061.72	1076.26	1061.88	1.35	ppb
Strontium	86-1	46.62	48.76	49.16	48.18	2.84	ppb
Strontium	88-1	47.09	48.14	48.66	47.96	1.66	ppb
Sulfur	34-1	-437.62	-541.47	-525.96	-501.69		ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	1.92	1.88	1.91	1.91	1.18	ppb
Thallium	205-1	1.92	1.92	1.93	1.92	0.43	ppb
Tin	118-1	9.98	10.05	10.03	10.02	0.40	ppb
Titanium	47-1	2.64	2.57	2.68	2.63	2.25	ppb
Uranium	238-1	1.77	1.76	1.79	1.77	0.63	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	9.77	9.85	10.17	9.93	2.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	9.52	9.91	10.19	9.87	3.41	ppb
Zirconium	90-1	1.87	1.86	1.90	1.88	1.18	ppb
Zirconium	91-1	1.90	1.80	1.94	1.88	3.87	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9.71	8.97	9.88	9.52	5.05	ppb
Antimony	121-1	0.10	0.11	0.11	0.11	7.44	ppb
Arsenic	75-2	2.20	2.52	2.57	2.43	8.18	ppb
Barium	135-1	106.54	108.69	117.59	110.94	5.28	ppb
Barium	137-1	107.41	110.85	118.20	112.15	4.92	ppb
Beryllium	9-1	0.02	0.03	0.02	0.02	23.06	ppb
Bismuth	209-1				97		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.17	0.07	0.21	0.15	47.59	ppb
Cadmium	106-1	-1.08	-0.25	-0.20	-0.51		ppb
Cadmium	111-1	-0.08	0.00	-0.01	-0.03		ppb
Calcium	43-1	183079.39	181741.25	190056.00	184958.88	2.41	ppb
Calcium	44-1	174380.12	177889.40	184861.13	179043.55	2.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.61	0.60	0.62	0.61	1.51	ppb
Cobalt	59-2	0.25	0.27	0.28	0.26	5.89	ppb
Copper	63-2	0.38	0.46	0.42	0.42	9.56	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				97		%
Indium	115-1				99		%
Indium	115-2				94		%
Iron	54-2	747.40	766.86	777.33	763.86	1.99	ppb
Iron	56-2	783.87	800.61	812.46	798.98	1.80	ppb
Iron	57-2	736.49	760.12	765.64	754.08	2.05	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.34	0.32	0.33	4.08	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.32	0.32	0.31	0.32	1.86	ppb
Lead	208-1	0.33	0.31	0.31	0.32	3.49	ppb
Lithium	6-1				96		%
Magnesium	24-2	45292.14	46800.32	47434.69	46509.05	2.37	ppb
Manganese	55-2	53.52	55.01	54.93	54.49	1.54	ppb
Molybdenum	94-1	5.00	5.07	5.36	5.15	3.74	ppb
Molybdenum	95-1	5.84	5.87	6.32	6.01	4.47	ppb
Molybdenum	96-1	5.73	5.74	6.17	5.88	4.25	ppb
Molybdenum	97-1	5.93	6.01	6.37	6.11	3.89	ppb
Molybdenum	98-1	5.82	5.91	6.16	5.97	2.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.57	1.71	1.67	1.65	4.38	ppb
Phosphorus	31-2	25.90	35.61	38.60	33.37	19.91	ppb
Potassium	39-2	4520.11	4607.87	4660.29	4596.09	1.54	ppb
Rhodium	103-1				95		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	0.04	0.21	0.47	0.24	89.90	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.56	-0.15	0.64	0.35	124.74	ppb
Silicon	28-1	7682.03	7794.86	7964.07	7813.65	1.82	ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.29	ppb
Silver	109-1	0.01	0.23	0.01	0.08	148.03	ppb
Sodium	23-2	13767.41	14134.97	14392.53	14098.30	2.23	ppb
Strontium	86-1	428357.51	430688.76	451452.78	436833.02	2.91	ppb
Strontium	88-1	433447.78	429254.83	453943.76	438882.12	3.01	ppb
Sulfur	34-1	142182.96	143801.93	154005.00	146663.30	4.37	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.05	0.04	0.04	0.04	12.40	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	12.34	ppb
Tin	118-1	0.21	0.21	0.26	0.23	13.90	ppb
Titanium	47-1	0.87	1.11	0.93	0.97	13.17	ppb
Uranium	238-1	1.57	1.63	1.71	1.63	4.44	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.81	0.82	0.85	0.83	2.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	1.67	1.99	1.89	1.85	8.88	ppb
Zirconium	90-1	0.12	0.11	0.12	0.12	2.50	ppb
Zirconium	91-1	0.10	0.11	0.12	0.11	5.17	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.29	8.95	8.02	8.42	5.66	ppb
Antimony	121-1	0.08	0.09	0.09	0.09	5.87	ppb
Arsenic	75-2	2.65	2.81	2.29	2.58	10.29	ppb
Barium	135-1	109.53	112.10	115.02	112.22	2.45	ppb
Barium	137-1	110.10	114.05	117.82	113.99	3.39	ppb
Beryllium	9-1	0.02	0.03	0.03	0.02	27.83	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.07	0.14	0.12	37.19	ppb
Cadmium	106-1	-0.48	-0.41	-0.12	-0.34		ppb
Cadmium	111-1	-0.03	-0.02	0.00	-0.02		ppb
Calcium	43-1	181044.84	183390.13	189309.94	184581.64	2.31	ppb
Calcium	44-1	175715.89	178578.13	184235.99	179510.00	2.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.46	0.49	0.50	0.48	3.98	ppb
Cobalt	59-2	0.27	0.25	0.26	0.26	3.34	ppb
Copper	63-2	0.24	0.25	0.26	0.25	4.18	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				100		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				93		%
Iron	54-2	717.34	723.36	703.90	714.87	1.39	ppb
Iron	56-2	739.61	748.34	727.16	738.37	1.44	ppb
Iron	57-2	699.93	724.03	689.68	704.55	2.50	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.20	0.21	0.20	8.34	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.22	0.20	0.20	4.88	ppb
Lead	208-1	0.19	0.20	0.21	0.20	4.87	ppb
Lithium	6-1				96		%
Magnesium	24-2	45953.75	46627.37	45852.10	46144.41	0.91	ppb
Manganese	55-2	51.26	51.65	50.45	51.12	1.20	ppb
Molybdenum	94-1	5.06	5.12	5.38	5.19	3.31	ppb
Molybdenum	95-1	5.92	5.94	6.20	6.02	2.61	ppb
Molybdenum	96-1	5.81	5.86	6.16	5.94	3.23	ppb
Molybdenum	97-1	6.05	5.92	6.35	6.11	3.62	ppb
Molybdenum	98-1	5.89	5.85	6.29	6.01	4.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.50	1.60	1.47	1.52	4.54	ppb
Phosphorus	31-2	29.01	33.58	27.70	30.10	10.26	ppb
Potassium	39-2	4439.31	4515.76	4448.63	4467.90	0.93	ppb
Rhodium	103-1				94		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	0.19	0.27	0.27	0.24	18.60	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.37	-0.37	0.34	-0.14		ppb
Silicon	28-1	7676.05	7826.98	8123.88	7875.64	2.89	ppb
Silver	107-1	0.01	0.02	0.01	0.01	24.41	ppb
Silver	109-1	0.01	0.00	0.01	0.01	30.37	ppb
Sodium	23-2	13638.96	13811.30	13557.20	13669.15	0.95	ppb
Strontium	86-1	431390.54	437481.49	459940.47	442937.50	3.39	ppb
Strontium	88-1	436183.85	440128.03	455916.53	444076.14	2.35	ppb
Sulfur	34-1	144353.12	148534.21	153646.86	148844.73	3.13	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.03	0.03	0.04	0.03	13.41	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	5.99	ppb
Tin	118-1	0.00	0.01	0.01	0.01	65.65	ppb
Titanium	47-1	0.93	0.89	1.15	0.99	13.99	ppb
Uranium	238-1	1.62	1.64	1.72	1.66	3.24	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.84	0.81	0.85	0.83	2.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	0.54	0.50	0.47	0.50	6.76	ppb
Zirconium	90-1	0.11	0.11	0.11	0.11	2.80	ppb
Zirconium	91-1	0.12	0.11	0.12	0.11	4.49	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.08	2.53	2.76	2.79	9.94	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	7.17	ppb
Arsenic	75-2	0.43	0.41	0.40	0.41	4.23	ppb
Barium	135-1	22.42	21.43	21.78	21.88	2.30	ppb
Barium	137-1	22.17	21.85	22.08	22.03	0.75	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	24.69	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.05	0.00	0.04	94.00	ppb
Cadmium	106-1	0.59	-0.07	0.18	0.23	142.35	ppb
Cadmium	111-1	0.05	0.00	0.03	0.03	103.45	ppb
Calcium	43-1	37461.85	35384.21	37925.05	36923.70	3.66	ppb
Calcium	44-1	35412.37	35282.16	35977.31	35557.28	1.04	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.12	0.13	0.15	0.13	11.27	ppb
Cobalt	59-2	0.06	0.05	0.05	0.05	13.20	ppb
Copper	63-2	0.04	0.05	0.07	0.06	33.72	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				96		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	54-2	140.76	142.16	144.19	142.37	1.21	ppb
Iron	56-2	145.23	142.07	143.82	143.70	1.10	ppb
Iron	57-2	146.75	134.30	139.71	140.25	4.45	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.08	0.07	0.07	12.20	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.06	0.05	0.06	22.21	ppb
Lead	208-1	0.07	0.07	0.06	0.07	8.97	ppb
Lithium	6-1				96		%
Magnesium	24-2	9423.77	9233.67	9350.95	9336.13	1.03	ppb
Manganese	55-2	21.20	20.77	21.23	21.07	1.21	ppb
Molybdenum	94-1	1.04	1.02	1.06	1.04	1.96	ppb
Molybdenum	95-1	1.22	1.19	1.20	1.20	1.03	ppb
Molybdenum	96-1	1.14	1.16	1.15	1.15	1.14	ppb
Molybdenum	97-1	1.20	1.21	1.26	1.22	2.49	ppb
Molybdenum	98-1	1.19	1.19	1.24	1.20	2.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.31	0.24	0.29	0.28	11.93	ppb
Phosphorus	31-2	-11.62	-13.40	-15.03	-13.35		ppb
Potassium	39-2	951.76	923.39	940.42	938.52	1.52	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				97		%
Selenium	82-1	-0.03	0.03	-0.10	-0.03		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	1.07	-0.36	0.11	0.27	267.38	ppb
Silicon	28-1	1505.35	1544.11	1555.77	1535.08	1.72	ppb
Silver	107-1	0.00	0.00	0.00	0.00	22.47	ppb
Silver	109-1	0.00	0.00	0.00	0.00	29.12	ppb
Sodium	23-2	2843.96	2822.81	2838.01	2834.93	0.38	ppb
Strontium	86-1	86887.04	85737.26	87662.08	86762.13	1.12	ppb
Strontium	88-1	87329.81	85679.79	88724.68	87244.76	1.75	ppb
Sulfur	34-1	29277.18	30360.72	30551.00	30062.97	2.29	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	0.02	0.02	0.02	0.02	1.67	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.21	ppb
Tin	118-1	0.01	0.02	0.04	0.02	42.15	ppb
Titanium	47-1	0.22	0.22	0.28	0.24	14.20	ppb
Uranium	238-1	0.32	0.32	0.31	0.32	1.63	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.18	0.18	0.15	0.17	8.85	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	0.87	0.83	0.77	0.82	6.06	ppb
Zirconium	90-1	0.01	0.01	0.02	0.02	30.50	ppb
Zirconium	91-1	0.02	0.01	0.01	0.01	46.52	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1966.69	1970.31	1965.89	1967.63	0.12	ppb
Antimony	121-1	106.11	110.56	109.42	108.70	2.12	ppb
Arsenic	75-2	46.09	45.19	46.61	45.96	1.57	ppb
Barium	135-1	2103.69	2206.47	2194.83	2168.33	2.60	ppb
Barium	137-1	2121.11	2197.88	2230.50	2183.16	2.57	ppb
Beryllium	9-1	51.12	50.59	52.08	51.26	1.47	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	42.66	43.02	43.93	43.20	1.52	ppb
Cadmium	106-1	39.94	41.72	40.64	40.77	2.20	ppb
Cadmium	111-1	49.76	51.72	52.19	51.22	2.52	ppb
Calcium	43-1	184476.19	183223.59	182971.52	183557.10	0.44	ppb
Calcium	44-1	181249.28	177590.93	178199.60	179013.27	1.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	202.50	205.21	202.89	203.53	0.72	ppb
Cobalt	59-2	527.81	540.86	525.59	531.42	1.55	ppb
Copper	63-2	260.39	260.56	257.45	259.47	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				102		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				92		%
Iron	54-2	1926.83	1955.63	1913.07	1931.84	1.12	ppb
Iron	56-2	1829.82	1808.43	1786.23	1808.16	1.21	ppb
Iron	57-2	1751.33	1751.22	1718.36	1740.30	1.09	ppb
Krypton	83-1						cps
Lead	206-1	20.95	21.36	21.05	21.12	1.02	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	21.05	21.28	21.12	21.15	0.54	ppb
Lead	208-1	20.93	21.32	21.16	21.13	0.93	ppb
Lithium	6-1				95		%
Magnesium	24-2	46505.44	45198.71	45267.42	45657.19	1.61	ppb
Manganese	55-2	561.07	566.38	555.08	560.84	1.01	ppb
Molybdenum	94-1	5.09	5.05	5.14	5.09	0.86	ppb
Molybdenum	95-1	5.88	5.85	6.11	5.95	2.42	ppb
Molybdenum	96-1	5.83	5.79	6.00	5.87	1.92	ppb
Molybdenum	97-1	5.98	6.10	6.24	6.11	2.13	ppb
Molybdenum	98-1	5.95	5.87	5.97	5.93	0.86	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	498.07	498.39	497.98	498.15	0.04	ppb
Phosphorus	31-2	25.68	38.44	37.07	33.73	20.77	ppb
Potassium	39-2	4445.42	4497.24	4446.82	4463.16	0.66	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	20.89	21.79	21.78	21.49	2.39	ppb
Selenium	77-2	29.32	19.86	20.19	23.12	23.23	ppb
Selenium	78-2	23.74	21.06	20.21	21.67	8.51	ppb
Silicon	28-1	7757.87	7716.53	7847.34	7773.91	0.86	ppb
Silver	107-1	46.49	48.09	48.19	47.59	2.00	ppb
Silver	109-1	46.98	48.14	49.10	48.07	2.20	ppb
Sodium	23-2	13728.17	13456.16	13377.89	13520.74	1.36	ppb
Strontium	86-1	430332.58	432461.61	446258.58	436350.92	1.98	ppb
Strontium	88-1	435445.43	428309.36	444978.24	436244.34	1.92	ppb
Sulfur	34-1	143378.51	143658.72	144103.77	143713.67	0.25	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	51.08	51.79	51.82	51.56	0.81	ppb
Thallium	205-1	53.14	55.12	54.38	54.22	1.84	ppb
Tin	118-1	0.12	0.15	0.13	0.13	8.34	ppb
Titanium	47-1	0.99	0.93	1.26	1.06	16.59	ppb
Uranium	238-1	1.62	1.68	1.67	1.66	1.88	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	531.16	528.22	518.83	526.07	1.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				96		%
Zinc	66-2	507.48	511.11	504.10	507.56	0.69	ppb
Zirconium	90-1	0.12	0.10	0.12	0.11	8.22	ppb
Zirconium	91-1	0.15	0.14	0.13	0.14	7.13	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.67	12.67	15.11	13.48	10.43	ppb
Antimony	121-1	0.07	0.06	0.06	0.06	10.07	ppb
Arsenic	75-2	0.08	0.07	0.22	0.12	66.72	ppb
Barium	135-1	26.14	26.31	26.37	26.27	0.46	ppb
Barium	137-1	26.21	27.04	26.40	26.55	1.63	ppb
Beryllium	9-1	0.03	0.02	0.03	0.03	22.34	ppb
Bismuth	209-1				94		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.11	0.09	0.09	13.92	ppb
Cadmium	106-1	-0.72	-0.51	-0.29	-0.51		ppb
Cadmium	111-1	-0.05	-0.03	-0.02	-0.04		ppb
Calcium	43-1	306949.44	301665.80	306337.83	304984.36	0.95	ppb
Calcium	44-1	302494.33	298676.80	297737.12	299636.08	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.18	0.10	0.18	0.15	32.30	ppb
Cobalt	59-2	0.05	0.05	0.04	0.04	13.96	ppb
Copper	63-2	0.43	0.34	0.43	0.40	13.55	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				99		%
Holmium	165-2				97		%
Indium	115-1				96		%
Indium	115-2				93		%
Iron	54-2	257.23	221.47	252.86	243.85	8.00	ppb
Iron	56-2	257.12	225.99	254.98	246.03	7.07	ppb
Iron	57-2	266.35	222.77	256.93	248.68	9.22	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.12	0.13	0.14	15.99	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.13	0.11	0.12	13.44	ppb
Lead	208-1	0.15	0.13	0.12	0.13	10.90	ppb
Lithium	6-1				94		%
Magnesium	24-2	82656.19	71716.97	80391.24	78254.80	7.38	ppb
Manganese	55-2	50.55	44.01	50.55	48.37	7.80	ppb
Molybdenum	94-1	0.42	0.38	0.43	0.41	6.88	ppb
Molybdenum	95-1	0.22	0.20	0.23	0.22	7.53	ppb
Molybdenum	96-1	0.22	0.22	0.23	0.22	2.86	ppb
Molybdenum	97-1	0.20	0.22	0.22	0.21	5.54	ppb
Molybdenum	98-1	0.19	0.20	0.21	0.20	4.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.16	0.09	0.18	0.14	33.75	ppb
Phosphorus	31-2	-4.62	-6.77	-4.35	-5.25		ppb
Potassium	39-2	3211.38	2792.37	3153.92	3052.56	7.44	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				97		%
Selenium	82-1	0.29	0.34	0.27	0.30	12.46	ppb
Selenium	77-2	0.00	0.75	0.00	0.25	173.21	ppb
Selenium	78-2	-0.10	-0.63	0.14	-0.20		ppb
Silicon	28-1	5437.52	5442.24	5444.21	5441.32	0.06	ppb
Silver	107-1	0.03	0.02	0.02	0.03	15.16	ppb
Silver	109-1	0.03	0.02	0.02	0.03	23.72	ppb
Sodium	23-2	41131.15	35648.28	40567.14	39115.52	7.71	ppb
Strontium	86-1	369287.05	364505.25	372547.90	368780.06	1.10	ppb
Strontium	88-1	367763.40	369992.27	374776.61	370844.09	0.97	ppb
Sulfur	34-1	269562.07	271401.49	271650.02	270871.19	0.42	ppb
Terbium	159-1				97		%
Terbium	159-2				97		%
Thallium	203-1	0.03	0.02	0.02	0.02	14.53	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	7.87	ppb
Tin	118-1	0.09	0.10	0.10	0.10	5.00	ppb
Titanium	47-1	0.80	0.74	0.78	0.77	3.74	ppb
Uranium	238-1	0.25	0.24	0.25	0.24	2.83	ppb

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.12	0.16	0.15	12.45	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	0.18	0.11	0.11	0.13	28.64	ppb
Zirconium	90-1	0.14	0.14	0.13	0.14	4.41	ppb
Zirconium	91-1	0.15	0.13	0.12	0.13	11.89	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14.59	19.02	16.83	16.82	13.18	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	7.54	ppb
Arsenic	75-2	0.09	0.07	0.12	0.10	22.86	ppb
Barium	135-1	25.26	25.73	25.33	25.44	0.99	ppb
Barium	137-1	25.39	26.24	25.69	25.77	1.67	ppb
Beryllium	9-1	0.02	0.02	0.03	0.02	8.31	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.07	0.09	0.09	16.04	ppb
Cadmium	106-1	-0.48	-0.59	-0.10	-0.39		ppb
Cadmium	111-1	-0.03	-0.04	-0.01	-0.02		ppb
Calcium	43-1	301417.07	313715.66	297506.07	304212.94	2.78	ppb
Calcium	44-1	299494.66	308838.85	294523.35	300952.29	2.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.02	0.07	0.09	0.06	54.42	ppb
Cobalt	59-2	0.03	0.04	0.04	0.04	5.08	ppb
Copper	63-2	0.00	0.05	0.06	0.04	87.67	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				101		%
Holmium	165-2				102		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	54-2	248.01	266.91	276.86	263.93	5.55	ppb
Iron	56-2	250.37	266.21	277.26	264.61	5.11	ppb
Iron	57-2	254.60	265.72	277.65	265.99	4.33	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.09	0.11	0.11	10.10	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.09	0.10	11.38	ppb
Lead	208-1	0.11	0.10	0.10	0.10	7.91	ppb
Lithium	6-1				95		%
Magnesium	24-2	71637.35	76304.27	79810.73	75917.45	5.40	ppb
Manganese	55-2	49.43	51.93	54.89	52.08	5.25	ppb
Molybdenum	94-1	0.36	0.40	0.37	0.37	5.84	ppb
Molybdenum	95-1	0.15	0.15	0.14	0.15	3.55	ppb
Molybdenum	96-1	0.14	0.15	0.14	0.14	4.76	ppb
Molybdenum	97-1	0.13	0.12	0.13	0.13	5.46	ppb
Molybdenum	98-1	0.13	0.12	0.13	0.13	4.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.32	0.40	0.35	0.36	10.86	ppb
Phosphorus	31-2	-12.85	-6.46	-8.87	-9.39		ppb
Potassium	39-2	2748.07	2945.91	3048.04	2914.01	5.23	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	0.39	0.47	0.34	0.40	16.53	ppb
Selenium	77-2	0.00	0.00	1.63	0.54	173.21	ppb
Selenium	78-2	-0.42	-0.16	0.33	-0.08		ppb
Silicon	28-1	5362.18	5545.74	5353.39	5420.44	2.00	ppb
Silver	107-1	0.01	0.01	0.01	0.01	11.37	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.66	ppb
Sodium	23-2	33576.79	35655.39	37483.77	35571.98	5.50	ppb
Strontium	86-1	351467.88	359498.11	348244.69	353070.23	1.64	ppb
Strontium	88-1	355811.22	357697.90	355861.09	356456.74	0.30	ppb
Sulfur	34-1	269112.18	279946.85	271278.63	273445.89	2.10	ppb
Terbium	159-1				102		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.01	0.02	18.39	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.51	ppb
Tin	118-1	0.37	0.36	0.35	0.36	3.31	ppb
Titanium	47-1	0.86	0.90	0.90	0.89	2.79	ppb
Uranium	238-1	0.20	0.21	0.20	0.20	1.12	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.14	0.15	0.15	9.18	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	0.79	0.92	0.90	0.87	7.98	ppb
Zirconium	90-1	0.14	0.14	0.14	0.14	0.70	ppb
Zirconium	91-1	0.14	0.13	0.14	0.14	5.10	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	129.15	134.38	130.44	131.32	2.08	ppb
Antimony	121-1	0.35	0.35	0.33	0.34	3.03	ppb
Arsenic	75-2	6.77	7.23	7.29	7.10	4.03	ppb
Barium	135-1	589.77	616.03	611.02	605.61	2.30	ppb
Barium	137-1	588.49	606.78	598.31	597.86	1.53	ppb
Beryllium	9-1	0.02	0.03	0.02	0.02	22.89	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.16	0.22	0.15	0.18	21.32	ppb
Cadmium	106-1	-0.12	0.18	-0.13	-0.02		ppb
Cadmium	111-1	0.05	0.07	0.06	0.06	16.21	ppb
Calcium	43-1	326911.54	328135.02	325807.88	326951.48	0.36	ppb
Calcium	44-1	326800.14	329649.30	321474.92	325974.79	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.88	0.85	0.82	0.85	3.40	ppb
Cobalt	59-2	4.96	4.93	4.95	4.95	0.27	ppb
Copper	63-2	1.59	1.54	1.53	1.55	1.88	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				103		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	736.14	705.02	712.76	717.97	2.26	ppb
Iron	56-2	785.90	753.70	747.48	762.36	2.70	ppb
Iron	57-2	743.60	702.10	726.39	724.03	2.88	ppb
Krypton	83-1						cps
Lead	206-1	0.69	0.74	0.73	0.72	3.75	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.67	0.67	0.67	0.67	0.55	ppb
Lead	208-1	0.69	0.70	0.69	0.69	1.11	ppb
Lithium	6-1				99		%
Magnesium	24-2	109102.35	106424.92	107285.57	107604.28	1.27	ppb
Manganese	55-2	1912.31	1823.46	1833.30	1856.36	2.62	ppb
Molybdenum	94-1	1.75	1.77	1.68	1.73	2.75	ppb
Molybdenum	95-1	0.78	0.77	0.79	0.78	1.10	ppb
Molybdenum	96-1	0.84	0.86	0.86	0.85	1.22	ppb
Molybdenum	97-1	0.78	0.78	0.77	0.78	0.53	ppb
Molybdenum	98-1	0.77	0.79	0.78	0.78	1.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.94	1.84	1.85	1.87	3.08	ppb
Phosphorus	31-2	901.53	876.46	845.02	874.34	3.24	ppb
Potassium	39-2	9882.57	9354.29	9378.48	9538.45	3.13	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				103		%
Scandium	45-2				98		%
Selenium	82-1	1.24	0.58	0.81	0.87	38.50	ppb
Selenium	77-2	0.81	0.80	0.81	0.81	0.68	ppb
Selenium	78-2	1.25	1.01	0.57	0.94	37.05	ppb
Silicon	28-1	22719.75	23832.53	22905.67	23152.65	2.57	ppb
Silver	107-1	0.02	0.02	0.02	0.02	15.63	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.16	ppb
Sodium	23-2	30208.14	28923.14	29299.92	29477.06	2.24	ppb
Strontium	86-1	440603.60	434930.31	438322.79	437952.23	0.65	ppb
Strontium	88-1	440780.86	438535.33	437678.08	438998.09	0.36	ppb
Sulfur	34-1	16094.61	16386.56	15746.73	16075.96	1.99	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	0.03	0.02	0.02	0.02	9.41	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	10.43	ppb
Tin	118-1	0.65	0.68	0.68	0.67	2.74	ppb
Titanium	47-1	6.08	5.28	6.11	5.82	8.13	ppb
Uranium	238-1	0.41	0.42	0.42	0.41	0.75	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.95	2.86	2.81	2.87	2.42	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	9.44	9.37	10.11	9.64	4.24	ppb
Zirconium	90-1	0.57	0.61	0.61	0.60	3.48	ppb
Zirconium	91-1	0.58	0.59	0.61	0.59	2.15	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	28.48	26.34	23.42	26.08	9.74	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	6.68	ppb
Arsenic	75-2	0.05	0.03	0.11	0.06	68.89	ppb
Barium	135-1	17.57	17.36	17.61	17.51	0.75	ppb
Barium	137-1	17.88	17.20	17.69	17.59	1.98	ppb
Beryllium	9-1	0.01	0.02	0.03	0.02	33.23	ppb
Bismuth	209-1				95		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.06	0.05	0.05	40.09	ppb
Cadmium	106-1	0.51	0.31	0.53	0.45	27.57	ppb
Cadmium	111-1	0.04	0.02	0.05	0.04	34.00	ppb
Calcium	43-1	462010.30	458443.34	465079.35	461844.33	0.72	ppb
Calcium	44-1	459035.60	457166.67	460175.66	458792.64	0.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.19	0.13	0.18	0.17	18.85	ppb
Cobalt	59-2	0.05	0.05	0.04	0.05	12.87	ppb
Copper	63-2	0.13	0.15	0.16	0.14	9.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	41.24	41.67	44.73	42.55	4.47	ppb
Iron	56-2	41.24	41.42	41.92	41.53	0.84	ppb
Iron	57-2	48.59	52.26	50.96	50.61	3.68	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.10	0.09	8.29	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.08	0.09	0.08	7.28	ppb
Lead	208-1	0.08	0.08	0.08	0.08	4.63	ppb
Lithium	6-1				96		%
Magnesium	24-2	119050.94	117802.85	118868.67	118574.15	0.57	ppb
Manganese	55-2	10.79	10.34	10.82	10.65	2.54	ppb
Molybdenum	94-1	0.21	0.21	0.22	0.21	2.59	ppb
Molybdenum	95-1	0.10	0.10	0.10	0.10	1.24	ppb
Molybdenum	96-1	0.10	0.08	0.11	0.10	13.78	ppb
Molybdenum	97-1	0.09	0.07	0.08	0.08	8.63	ppb
Molybdenum	98-1	0.07	0.07	0.08	0.07	9.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.26	0.32	0.32	0.30	11.48	ppb
Phosphorus	31-2	-22.41	-21.76	-17.09	-20.42		ppb
Potassium	39-2	3130.61	3143.27	3160.51	3144.80	0.48	ppb
Rhodium	103-1				95		%
Rhodium	103-2				92		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	0.17	0.57	0.03	0.26	110.77	ppb
Selenium	77-2	0.00	0.00	0.83	0.28	173.21	ppb
Selenium	78-2	-0.61	-0.84	1.07	-0.13		ppb
Silicon	28-1	4920.39	4960.37	4972.13	4950.96	0.55	ppb
Silver	107-1	0.01	0.01	0.01	0.01	15.10	ppb
Silver	109-1	0.00	0.00	0.01	0.01	55.53	ppb
Sodium	23-2	36700.19	35917.47	36477.41	36365.02	1.11	ppb
Strontium	86-1	312829.94	308947.41	308165.00	309980.78	0.81	ppb
Strontium	88-1	311641.08	308396.51	308688.93	309575.51	0.58	ppb
Sulfur	34-1	486964.75	490524.23	491310.30	489599.76	0.47	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.02	0.02	0.02	0.02	8.86	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	7.22	ppb
Tin	118-1	-0.01	-0.02	-0.03	-0.02		ppb
Titanium	47-1	0.97	0.98	1.00	0.99	1.57	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	3.02	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.11	0.12	0.12	0.12	2.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	0.35	0.43	0.28	0.36	21.54	ppb
Zirconium	90-1	0.08	0.08	0.09	0.08	5.78	ppb
Zirconium	91-1	0.07	0.08	0.08	0.08	8.78	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	84360.23	84295.32	83483.46	84046.34	0.58	ppb
Antimony	121-1	1.58	1.55	1.63	1.59	2.43	ppb
Arsenic	75-2	54.58	54.74	54.63	54.65	0.15	ppb
Barium	135-1	1709.90	1763.09	1750.23	1741.07	1.59	ppb
Barium	137-1	1692.39	1736.13	1742.26	1723.59	1.58	ppb
Beryllium	9-1	5.70	5.66	5.68	5.68	0.38	ppb
Bismuth	209-1				92		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	7.48	8.12	8.30	7.97	5.45	ppb
Cadmium	106-1	15.04	15.62	14.79	15.15	2.83	ppb
Cadmium	111-1	4.37	4.48	4.32	4.39	1.87	ppb
Calcium	43-1	681860.75	701097.55	704155.47	695704.59	1.74	ppb
Calcium	44-1	679803.41	697704.11	697543.09	691683.54	1.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	204.27	203.48	201.42	203.06	0.73	ppb
Cobalt	59-2	90.13	90.31	90.33	90.26	0.12	ppb
Copper	63-2	428.80	428.56	423.59	426.98	0.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				91		%
Iron	54-2	196584.26	197682.02	194033.58	196099.95	0.95	ppb
Iron	56-2	196063.64	196167.14	195002.01	195744.27	0.33	ppb
Iron	57-2	194570.05	192284.39	194088.48	193647.64	0.62	ppb
Krypton	83-1						cps
Lead	206-1	298.87	300.02	295.80	298.23	0.73	ppb

Reviewed By:kareem
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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	280.73	290.40	278.56	283.23	2.23	ppb
Lead	208-1	286.05	292.30	287.69	288.68	1.12	ppb
Lithium	6-1				96		%
Magnesium	24-2	252783.96	251456.45	250300.31	251513.57	0.49	ppb
Manganese	55-2	7098.28	7103.97	7037.34	7079.86	0.52	ppb
Molybdenum	94-1	74.42	75.88	74.73	75.01	1.03	ppb
Molybdenum	95-1	32.00	32.80	32.34	32.38	1.24	ppb
Molybdenum	96-1	36.37	37.19	36.82	36.79	1.11	ppb
Molybdenum	97-1	32.73	33.24	32.57	32.85	1.06	ppb
Molybdenum	98-1	32.30	33.08	32.23	32.54	1.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	226.86	229.36	226.30	227.51	0.71	ppb
Phosphorus	31-2	4808.48	4721.87	4658.74	4729.70	1.59	ppb
Potassium	39-2	19025.02	18855.11	18911.87	18930.67	0.46	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				113		%
Scandium	45-2				108		%
Selenium	82-1	4.83	5.27	4.92	5.01	4.61	ppb
Selenium	77-2	157.73	165.91	171.57	165.07	4.21	ppb
Selenium	78-2	32.23	26.94	26.94	28.70	10.63	ppb
Silicon	28-1	56678.83	58284.22	57572.26	57511.77	1.40	ppb
Silver	107-1	0.66	0.69	0.68	0.67	2.38	ppb
Silver	109-1	0.65	0.67	0.69	0.67	2.40	ppb
Sodium	23-2	67178.19	67701.34	66688.20	67189.24	0.75	ppb
Strontium	86-1	110386.15	113178.53	111750.08	111771.59	1.25	ppb
Strontium	88-1	110224.02	113148.54	111154.94	111509.17	1.34	ppb
Sulfur	34-1	99222.62	101090.69	100896.62	100403.31	1.02	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	2.25	2.32	2.24	2.27	1.95	ppb
Thallium	205-1	2.26	2.31	2.25	2.27	1.56	ppb
Tin	118-1	17.16	17.33	17.61	17.37	1.28	ppb
Titanium	47-1	876.09	911.14	914.21	900.48	2.35	ppb
Uranium	238-1	25.62	25.88	25.27	25.59	1.20	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	199.93	197.20	197.36	198.16	0.77	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				125		%
Yttrium	89-2				125		%
Zinc	66-2	1041.02	1040.33	1030.15	1037.16	0.59	ppb
Zirconium	90-1	26.45	27.14	26.74	26.77	1.29	ppb
Zirconium	91-1	26.21	26.77	26.29	26.42	1.15	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.33	8.81	9.53	8.89	6.79	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	5.03	ppb
Arsenic	75-2	0.07	0.01	-0.01	0.02	193.50	ppb
Barium	135-1	64.77	65.34	63.86	64.66	1.15	ppb
Barium	137-1	65.18	66.54	63.70	65.14	2.18	ppb
Beryllium	9-1	0.03	0.02	0.01	0.02	41.54	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.12	0.11	0.11	9.60	ppb
Cadmium	106-1	0.19	0.52	-0.67	0.01	5165.12	ppb
Cadmium	111-1	0.02	0.05	-0.04	0.01	387.05	ppb
Calcium	43-1	186767.30	190616.87	183208.75	186864.31	1.98	ppb
Calcium	44-1	175692.16	177056.81	170789.86	174512.94	1.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.14	0.11	0.09	0.11	22.93	ppb
Cobalt	59-2	0.03	0.02	0.02	0.02	12.98	ppb
Copper	63-2	0.02	0.03	0.02	0.02	31.69	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				107		%
Holmium	165-2				103		%
Indium	115-1				108		%
Indium	115-2				103		%
Iron	54-2	130.71	132.42	131.67	131.60	0.65	ppb
Iron	56-2	131.33	130.29	131.83	131.15	0.60	ppb
Iron	57-2	134.14	126.48	135.36	131.99	3.64	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.07	0.08	12.11	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.09	0.06	0.07	18.46	ppb
Lead	208-1	0.08	0.08	0.07	0.08	13.44	ppb
Lithium	6-1				105		%
Magnesium	24-2	55321.39	55024.86	55587.02	55311.09	0.51	ppb
Manganese	55-2	9.11	9.14	9.61	9.29	3.01	ppb
Molybdenum	94-1	0.48	0.49	0.41	0.46	9.38	ppb
Molybdenum	95-1	0.33	0.33	0.33	0.33	0.60	ppb
Molybdenum	96-1	0.34	0.33	0.33	0.33	1.83	ppb
Molybdenum	97-1	0.33	0.35	0.32	0.33	5.39	ppb
Molybdenum	98-1	0.33	0.33	0.32	0.32	2.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.01	-0.04	0.00	-0.01		ppb
Phosphorus	31-2	-6.50	0.77	-3.99	-3.24		ppb
Potassium	39-2	2938.53	2932.09	2948.20	2939.61	0.28	ppb
Rhodium	103-1				104		%
Rhodium	103-2				101		%
Scandium	45-1				111		%
Scandium	45-2				104		%
Selenium	82-1	0.48	0.30	0.35	0.37	24.64	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.02	-0.84	0.03	-0.26		ppb
Silicon	28-1	8119.55	8256.81	8210.01	8195.46	0.85	ppb
Silver	107-1	0.02	0.02	0.02	0.02	3.12	ppb
Silver	109-1	0.01	0.00	0.00	0.00	16.97	ppb
Sodium	23-2	44282.49	43804.37	44591.87	44226.24	0.90	ppb
Strontium	86-1	1176113.91	1193624.99	1164933.11	1178224.00	1.23	ppb
Strontium	88-1	1195947.26	1211090.92	1185798.53	1197612.23	1.06	ppb
Sulfur	34-1	51285.65	53032.20	51031.15	51783.00	2.10	ppb
Terbium	159-1				107		%
Terbium	159-2				104		%
Thallium	203-1	0.01	0.01	0.01	0.01	29.77	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	19.59	ppb
Tin	118-1	0.06	0.06	0.06	0.06	4.16	ppb
Titanium	47-1	0.88	0.92	0.89	0.89	2.15	ppb
Uranium	238-1	0.08	0.08	0.08	0.08	0.47	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.07	0.06	0.07	0.07	10.55	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	0.87	0.81	0.98	0.88	9.51	ppb
Zirconium	90-1	0.10	0.11	0.10	0.11	3.36	ppb
Zirconium	91-1	0.11	0.11	0.10	0.11	5.19	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.22	8.10	8.52	7.94	8.33	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	31.09	ppb
Arsenic	75-2	0.03	-0.02	0.06	0.02	197.11	ppb
Barium	135-1	14.40	14.38	14.19	14.32	0.82	ppb
Barium	137-1	14.53	14.50	14.37	14.47	0.62	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	12.53	ppb
Bismuth	209-1				95		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.09	0.10	0.09	8.95	ppb
Cadmium	106-1	-0.70	0.38	-0.50	-0.27		ppb
Cadmium	111-1	-0.05	0.03	-0.04	-0.02		ppb
Calcium	43-1	446028.39	453614.35	454345.74	451329.49	1.02	ppb
Calcium	44-1	444514.54	451183.74	447924.50	447874.26	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.06	0.08	0.06	20.28	ppb
Cobalt	59-2	0.05	0.03	0.04	0.04	18.88	ppb
Copper	63-2	-0.03	0.00	-0.02	-0.02		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				97		%
Indium	115-1				101		%
Indium	115-2				92		%
Iron	54-2	33.72	32.91	34.06	33.56	1.75	ppb
Iron	56-2	33.33	33.62	34.29	33.75	1.45	ppb
Iron	57-2	41.22	44.15	42.56	42.64	3.44	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.06	0.07	0.07	13.90	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.07	0.07	0.06	0.07	14.04	ppb
Lead	208-1	0.07	0.07	0.07	0.07	4.45	ppb
Lithium	6-1				99		%
Magnesium	24-2	127994.08	126655.07	131273.42	128640.86	1.85	ppb
Manganese	55-2	20.72	21.04	21.65	21.14	2.22	ppb
Molybdenum	94-1	0.42	0.39	0.41	0.41	4.12	ppb
Molybdenum	95-1	0.36	0.37	0.35	0.36	3.21	ppb
Molybdenum	96-1	0.34	0.36	0.33	0.34	4.46	ppb
Molybdenum	97-1	0.37	0.32	0.37	0.35	7.47	ppb
Molybdenum	98-1	0.34	0.35	0.35	0.35	2.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.05	-0.02	-0.04		ppb
Phosphorus	31-2	-11.50	-14.02	-6.45	-10.66		ppb
Potassium	39-2	4499.60	4535.53	4526.18	4520.44	0.41	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.29	0.53	0.49	0.43	29.76	ppb
Selenium	77-2	0.00	0.79	0.00	0.26	173.21	ppb
Selenium	78-2	-0.61	-0.38	0.33	-0.22		ppb
Silicon	28-1	5200.57	5434.83	5380.22	5338.54	2.30	ppb
Silver	107-1	0.01	0.01	0.02	0.01	35.96	ppb
Silver	109-1	0.00	0.00	0.01	0.00	63.87	ppb
Sodium	23-2	29365.37	28686.96	29652.07	29234.80	1.70	ppb
Strontium	86-1	303935.32	297816.44	300398.64	300716.80	1.02	ppb
Strontium	88-1	306417.31	298973.38	303178.99	302856.56	1.23	ppb
Sulfur	34-1	500563.78	512152.87	509645.69	507454.11	1.20	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.01	0.01	0.01	14.41	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.52	ppb
Tin	118-1	0.25	0.25	0.26	0.25	1.21	ppb
Titanium	47-1	0.68	0.70	0.65	0.68	3.62	ppb
Uranium	238-1	0.08	0.08	0.08	0.08	4.35	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.12	0.14	0.12	8.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				99		%
Zinc	66-2	0.41	0.45	0.58	0.48	18.49	ppb
Zirconium	90-1	0.07	0.07	0.07	0.07	4.32	ppb
Zirconium	91-1	0.07	0.08	0.06	0.07	12.10	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.96	4.32	4.08	4.79	21.43	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	16.68	ppb
Arsenic	75-2	0.12	0.06	0.08	0.08	37.54	ppb
Barium	135-1	38.10	38.14	39.05	38.43	1.41	ppb
Barium	137-1	38.37	38.38	39.11	38.62	1.10	ppb
Beryllium	9-1	0.03	0.03	0.04	0.03	18.61	ppb
Bismuth	209-1				96		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.03	0.10	0.07	49.03	ppb
Cadmium	106-1	-0.59	-0.28	-0.58	-0.48		ppb
Cadmium	111-1	-0.03	0.00	-0.04	-0.03		ppb
Calcium	43-1	277362.76	270197.32	280797.54	276119.21	1.96	ppb
Calcium	44-1	271284.23	267338.68	277272.83	271965.25	1.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.16	0.15	0.14	21.60	ppb
Cobalt	59-2	0.04	0.05	0.05	0.04	8.98	ppb
Copper	63-2	0.04	0.05	0.05	0.05	13.35	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				103		%
Holmium	165-2				99		%
Indium	115-1				100		%
Indium	115-2				93		%
Iron	54-2	1996.32	1976.97	2001.55	1991.62	0.65	ppb
Iron	56-2	2115.86	2064.60	2078.63	2086.36	1.27	ppb
Iron	57-2	2018.27	1961.65	1988.33	1989.42	1.42	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.07	0.07	0.07	12.53	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.06	0.06	0.06	4.46	ppb
Lead	208-1	0.05	0.06	0.06	0.06	9.07	ppb
Lithium	6-1				97		%
Magnesium	24-2	92858.64	90673.21	92407.44	91979.76	1.25	ppb
Manganese	55-2	87.28	86.37	86.99	86.88	0.54	ppb
Molybdenum	94-1	2.28	2.29	2.32	2.30	1.00	ppb
Molybdenum	95-1	2.16	2.14	2.20	2.16	1.26	ppb
Molybdenum	96-1	2.14	2.15	2.17	2.15	0.77	ppb
Molybdenum	97-1	2.14	2.17	2.27	2.19	3.06	ppb
Molybdenum	98-1	2.14	2.17	2.19	2.17	1.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.10	0.08	0.11	0.10	16.61	ppb
Phosphorus	31-2	-14.51	-10.92	-3.42	-9.62		ppb
Potassium	39-2	5368.30	5359.40	5396.14	5374.61	0.36	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	0.14	0.53	0.50	0.39	55.96	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.61	-0.39	-0.15	-0.38		ppb
Silicon	28-1	9162.16	9040.81	9318.82	9173.93	1.52	ppb
Silver	107-1	0.01	0.01	0.01	0.01	3.50	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.93	ppb
Sodium	23-2	167208.91	166221.20	165907.71	166445.94	0.41	ppb
Strontium	86-1	540107.70	559288.50	560072.58	553156.26	2.04	ppb
Strontium	88-1	551548.97	553915.91	563108.04	556190.97	1.10	ppb
Sulfur	34-1	220055.76	217179.76	224773.59	220669.70	1.74	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.01	0.01	0.01	22.76	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	34.77	ppb
Tin	118-1	0.18	0.16	0.18	0.17	6.67	ppb
Titanium	47-1	0.97	0.97	0.96	0.97	0.92	ppb
Uranium	238-1	0.43	0.43	0.44	0.43	2.09	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.15	0.14	0.14	5.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	1.65	1.91	1.66	1.74	8.45	ppb
Zirconium	90-1	0.28	0.27	0.28	0.28	2.20	ppb
Zirconium	91-1	0.30	0.30	0.30	0.30	1.20	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.08	4.58	4.10	4.59	10.61	ppb
Antimony	121-1	0.07	0.06	0.06	0.06	2.15	ppb
Arsenic	75-2	0.17	0.15	0.12	0.15	15.95	ppb
Barium	135-1	154.29	157.00	155.51	155.60	0.87	ppb
Barium	137-1	155.71	158.25	156.85	156.94	0.81	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	87.22	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.14	0.12	0.13	8.03	ppb
Cadmium	106-1	0.93	0.41	-0.11	0.41	128.28	ppb
Cadmium	111-1	0.11	0.06	0.02	0.06	68.24	ppb
Calcium	43-1	155287.16	153077.82	153116.19	153827.06	0.82	ppb
Calcium	44-1	150525.96	150664.30	150438.17	150542.81	0.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.07	0.12	0.13	0.10	30.12	ppb
Cobalt	59-2	0.18	0.18	0.21	0.19	7.92	ppb
Copper	63-2	0.61	0.65	0.63	0.63	3.43	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				105		%
Holmium	165-2				101		%
Indium	115-1				103		%
Indium	115-2				100		%
Iron	54-2	46.69	46.55	47.56	46.93	1.17	ppb
Iron	56-2	46.56	47.05	46.88	46.83	0.53	ppb
Iron	57-2	50.90	48.98	48.60	49.49	2.49	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.13	0.12	0.12	4.98	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.09	0.12	0.10	10.61	ppb
Lead	208-1	0.11	0.11	0.11	0.11	3.02	ppb
Lithium	6-1				101		%
Magnesium	24-2	27216.62	27568.64	27401.11	27395.46	0.64	ppb
Manganese	55-2	47.45	48.95	48.20	48.20	1.55	ppb
Molybdenum	94-1	2.03	1.96	1.95	1.98	2.02	ppb
Molybdenum	95-1	2.35	2.31	2.32	2.33	1.01	ppb
Molybdenum	96-1	2.26	2.25	2.28	2.26	0.80	ppb
Molybdenum	97-1	2.37	2.28	2.31	2.32	1.86	ppb
Molybdenum	98-1	2.31	2.29	2.29	2.30	0.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.71	1.76	1.67	1.71	2.88	ppb
Phosphorus	31-2	-17.34	-17.77	-15.98	-17.03		ppb
Potassium	39-2	766.30	778.73	764.48	769.84	1.01	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				102		%
Selenium	82-1	0.20	-0.12	0.41	0.16	160.86	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.62	0.50	0.75	0.21	345.60	ppb
Silicon	28-1	4202.64	4107.60	4141.21	4150.49	1.16	ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.82	ppb
Silver	109-1	0.00	0.00	0.00	0.00	59.72	ppb
Sodium	23-2	22360.73	22695.72	22442.28	22499.57	0.78	ppb
Strontium	86-1	459574.41	443246.06	448353.70	450391.39	1.85	ppb
Strontium	88-1	455484.93	443624.38	446728.41	448612.58	1.37	ppb
Sulfur	34-1	48543.09	47629.37	47234.76	47802.41	1.40	ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.03	0.03	0.03	0.03	3.35	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	2.91	ppb
Tin	118-1	0.49	0.47	0.46	0.47	2.68	ppb
Titanium	47-1	0.47	0.41	0.48	0.45	8.90	ppb
Uranium	238-1	2.43	2.42	2.47	2.44	1.08	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.11	0.11	0.11	7.19	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				102		%
Zinc	66-2	8.20	8.26	8.51	8.32	1.99	ppb
Zirconium	90-1	0.07	0.06	0.06	0.06	6.47	ppb
Zirconium	91-1	0.06	0.06	0.07	0.06	6.31	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	993.60	1002.13	1012.46	1002.73	0.94	ppb
Antimony	121-1	0.25	0.26	0.24	0.25	3.78	ppb
Arsenic	75-2	6.08	7.07	6.39	6.51	7.72	ppb
Barium	135-1	30.67	31.46	30.48	30.87	1.69	ppb
Barium	137-1	31.65	31.12	31.32	31.36	0.86	ppb
Beryllium	9-1	0.03	0.02	0.02	0.02	25.49	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	2.41	2.22	2.15	2.26	6.12	ppb
Cadmium	106-1	0.04	0.36	1.03	0.48	106.25	ppb
Cadmium	111-1	0.06	0.12	0.17	0.12	46.71	ppb
Calcium	43-1	86943.84	88470.67	88847.78	88087.43	1.14	ppb
Calcium	44-1	86300.69	88496.20	88729.64	87842.18	1.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.47	2.44	2.53	2.48	1.88	ppb
Cobalt	59-2	0.60	0.58	0.59	0.59	1.79	ppb
Copper	63-2	1.23	1.26	1.28	1.25	1.95	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				101		%
Indium	115-1				103		%
Indium	115-2				97		%
Iron	54-2	882.93	886.15	892.03	887.04	0.52	ppb
Iron	56-2	940.58	915.28	923.13	926.33	1.40	ppb
Iron	57-2	888.93	880.99	867.52	879.15	1.23	ppb
Krypton	83-1						cps
Lead	206-1	0.91	0.96	0.99	0.95	4.10	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.89	0.89	0.92	0.90	1.44	ppb
Lead	208-1	0.90	0.92	0.93	0.92	1.87	ppb
Lithium	6-1				102		%
Magnesium	24-2	793.06	790.35	790.97	791.46	0.18	ppb
Manganese	55-2	17.93	17.32	17.53	17.60	1.74	ppb
Molybdenum	94-1	159.70	163.71	158.09	160.50	1.80	ppb
Molybdenum	95-1	202.91	211.50	204.74	206.38	2.19	ppb
Molybdenum	96-1	200.67	209.89	200.11	203.55	2.70	ppb
Molybdenum	97-1	196.66	200.84	196.39	197.97	1.26	ppb
Molybdenum	98-1	203.96	205.72	207.18	205.62	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.24	53.96	54.64	53.95	1.30	ppb
Phosphorus	31-2	111.84	102.41	106.97	107.07	4.40	ppb
Potassium	39-2	88788.98	86745.26	88258.38	87930.87	1.21	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				107		%
Scandium	45-2				99		%
Selenium	82-1	1.66	1.81	1.84	1.77	5.45	ppb
Selenium	77-2	2.34	1.61	3.20	2.38	33.48	ppb
Selenium	78-2	0.96	0.31	0.08	0.45	101.30	ppb
Silicon	28-1	3841.14	3986.86	4029.15	3952.38	2.50	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.25	ppb
Silver	109-1	0.01	0.01	0.01	0.01	30.34	ppb
Sodium	23-2	61729.67	62940.60	62283.47	62317.91	0.97	ppb
Strontium	86-1	21423.41	21818.48	21576.04	21605.97	0.92	ppb
Strontium	88-1	21116.77	21960.36	21539.27	21538.80	1.96	ppb
Sulfur	34-1	34619.35	35346.03	35626.36	35197.25	1.48	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	0.02	0.03	0.03	0.03	7.78	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	2.62	ppb
Tin	118-1	0.06	0.06	0.07	0.06	12.57	ppb
Titanium	47-1	10.18	10.29	10.51	10.33	1.66	ppb
Uranium	238-1	0.13	0.13	0.13	0.13	3.10	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.97	4.93	5.03	4.98	1.01	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	5.39	5.20	5.39	5.32	2.03	ppb
Zirconium	90-1	0.44	0.49	0.44	0.46	6.62	ppb
Zirconium	91-1	0.43	0.45	0.43	0.44	2.02	ppb

Reviewed By:kareem
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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	336.82	334.78	339.47	337.02	0.70	ppb
Antimony	121-1	0.68	0.69	0.67	0.68	1.73	ppb
Arsenic	75-2	3.55	3.47	3.58	3.54	1.73	ppb
Barium	135-1	11.11	11.41	11.10	11.21	1.59	ppb
Barium	137-1	11.17	11.19	11.30	11.22	0.63	ppb
Beryllium	9-1	0.00	0.00	0.02	0.01	102.00	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.64	0.85	0.90	0.80	17.45	ppb
Cadmium	106-1	0.46	0.99	0.15	0.53	78.59	ppb
Cadmium	111-1	0.08	0.11	0.08	0.09	17.56	ppb
Calcium	43-1	43899.93	44572.56	45799.85	44757.44	2.15	ppb
Calcium	44-1	43777.50	43781.62	45517.59	44358.90	2.26	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.22	0.23	0.25	0.23	5.50	ppb
Cobalt	59-2	0.20	0.17	0.18	0.18	7.56	ppb
Copper	63-2	5.63	5.52	5.74	5.63	1.93	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				106		%
Holmium	165-2				100		%
Indium	115-1				104		%
Indium	115-2				96		%
Iron	54-2	38.31	35.51	36.38	36.73	3.91	ppb
Iron	56-2	36.44	36.08	37.44	36.65	1.92	ppb
Iron	57-2	37.02	38.18	35.92	37.04	3.06	ppb
Krypton	83-1						cps
Lead	206-1	0.61	0.64	0.61	0.62	2.71	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.57	0.60	0.60	0.59	3.67	ppb
Lead	208-1	0.59	0.62	0.61	0.61	1.86	ppb
Lithium	6-1				100		%
Magnesium	24-2	185.41	185.29	193.32	188.01	2.45	ppb
Manganese	55-2	3.03	3.00	3.04	3.02	0.72	ppb
Molybdenum	94-1	42.59	43.12	43.38	43.03	0.94	ppb
Molybdenum	95-1	51.52	52.37	52.28	52.06	0.90	ppb
Molybdenum	96-1	49.83	50.55	51.89	50.76	2.06	ppb
Molybdenum	97-1	52.50	53.55	53.50	53.19	1.12	ppb
Molybdenum	98-1	51.49	52.37	51.94	51.93	0.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	30.90	30.12	31.84	30.95	2.79	ppb
Phosphorus	31-2	41.08	75.94	60.01	59.01	29.57	ppb
Potassium	39-2	48643.73	47520.79	49090.81	48418.45	1.67	ppb
Rhodium	103-1				101		%
Rhodium	103-2				98		%
Scandium	45-1				104		%
Scandium	45-2				98		%
Selenium	82-1	3.70	3.27	3.09	3.35	9.26	ppb
Selenium	77-2	1.66	6.41	3.28	3.78	63.84	ppb
Selenium	78-2	2.98	3.08	3.40	3.15	6.93	ppb
Silicon	28-1	5861.42	5974.67	6190.44	6008.84	2.78	ppb
Silver	107-1	0.10	0.10	0.11	0.10	3.92	ppb
Silver	109-1	0.10	0.10	0.11	0.10	3.84	ppb
Sodium	23-2	41205.61	39900.11	41481.17	40862.30	2.07	ppb
Strontium	86-1	9103.32	9188.84	9120.91	9137.69	0.49	ppb
Strontium	88-1	8980.55	8986.08	9198.06	9054.90	1.37	ppb
Sulfur	34-1	20720.57	21265.26	21721.43	21235.75	2.36	ppb
Terbium	159-1				105		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.02	0.02	0.02	19.81	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	11.68	ppb
Tin	118-1	0.08	0.08	0.07	0.08	5.98	ppb
Titanium	47-1	0.89	0.91	0.95	0.92	3.27	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	12.79	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	23.81	23.49	24.33	23.88	1.79	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				98		%
Zinc	66-2	1.46	1.35	1.49	1.44	5.21	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	2.70	ppb
Zirconium	91-1	0.01	0.03	0.03	0.02	38.59	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	64.44	60.47	65.05	63.32	3.93	ppb
Antimony	121-1	0.30	0.28	0.30	0.29	2.22	ppb
Arsenic	75-2	0.19	0.16	0.21	0.18	13.94	ppb
Barium	135-1	85.93	87.06	86.13	86.37	0.70	ppb
Barium	137-1	86.99	87.18	87.55	87.24	0.33	ppb
Beryllium	9-1	0.01	0.00	0.01	0.01	53.00	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.19	0.18	0.22	0.20	9.75	ppb
Cadmium	106-1	0.02	0.48	0.11	0.20	121.73	ppb
Cadmium	111-1	0.05	0.09	0.07	0.07	30.24	ppb
Calcium	43-1	112690.57	113872.96	113278.43	113280.65	0.52	ppb
Calcium	44-1	113016.71	114185.53	114331.17	113844.47	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.09	0.09	0.10	0.09	6.73	ppb
Cobalt	59-2	0.35	0.33	0.36	0.34	4.64	ppb
Copper	63-2	1.38	1.42	1.48	1.43	3.45	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				101		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				92		%
Iron	54-2	91.49	91.16	93.49	92.05	1.37	ppb
Iron	56-2	94.56	90.93	93.64	93.04	2.03	ppb
Iron	57-2	91.28	96.48	96.46	94.74	3.16	ppb
Krypton	83-1						cps
Lead	206-1	0.23	0.24	0.25	0.24	3.75	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.22	0.21	0.20	0.21	4.35	ppb
Lead	208-1	0.22	0.22	0.22	0.22	1.49	ppb
Lithium	6-1				99		%
Magnesium	24-2	30766.46	30471.94	31338.53	30858.98	1.43	ppb
Manganese	55-2	15.70	15.09	15.56	15.45	2.07	ppb
Molybdenum	94-1	6.70	6.63	6.86	6.73	1.75	ppb
Molybdenum	95-1	7.86	7.97	7.87	7.90	0.75	ppb
Molybdenum	96-1	7.61	7.80	7.69	7.70	1.26	ppb
Molybdenum	97-1	7.90	8.04	8.01	7.98	0.87	ppb
Molybdenum	98-1	7.88	7.91	7.94	7.91	0.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.06	6.13	6.29	6.16	1.91	ppb
Phosphorus	31-2	30.75	19.86	31.52	27.38	23.81	ppb
Potassium	39-2	1454.28	1393.38	1461.70	1436.45	2.61	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	1.23	1.33	1.48	1.35	9.24	ppb
Selenium	77-2	3.41	0.81	0.00	1.40	126.72	ppb
Selenium	78-2	1.61	0.09	2.08	1.26	82.75	ppb
Silicon	28-1	3610.06	3654.92	3697.26	3654.08	1.19	ppb
Silver	107-1	0.00	0.00	0.00	0.00	48.53	ppb
Silver	109-1	0.00	0.00	0.00	0.00	35.82	ppb
Sodium	23-2	97306.08	94161.41	98363.13	96610.20	2.26	ppb
Strontium	86-1	40341.09	40057.53	40028.51	40142.38	0.43	ppb
Strontium	88-1	39648.99	40416.54	40568.34	40211.29	1.23	ppb
Sulfur	34-1	27332.17	27334.37	28077.36	27581.30	1.56	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	0.06	0.06	0.07	0.06	7.46	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	2.99	ppb
Tin	118-1	-0.01	0.02	0.01	0.01	286.73	ppb
Titanium	47-1	1.54	1.51	1.50	1.52	1.29	ppb
Uranium	238-1	8.54	8.55	8.72	8.61	1.19	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.24	0.24	0.22	0.23	4.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	8.87	8.85	8.96	8.89	0.68	ppb
Zirconium	90-1	0.12	0.12	0.12	0.12	1.65	ppb
Zirconium	91-1	0.12	0.11	0.11	0.12	3.64	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	27.01	23.86	26.23	25.70	6.37	ppb
Antimony	121-1	0.10	0.10	0.10	0.10	1.48	ppb
Arsenic	75-2	1.98	2.19	2.26	2.14	6.80	ppb
Barium	135-1	70.78	69.65	70.24	70.22	0.81	ppb
Barium	137-1	72.30	70.25	70.99	71.18	1.46	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	46.23	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.10	0.14	0.12	18.90	ppb
Cadmium	106-1	-0.06	-0.52	-0.65	-0.41		ppb
Cadmium	111-1	0.00	-0.04	-0.05	-0.03		ppb
Calcium	43-1	298198.26	299262.77	296356.59	297939.20	0.49	ppb
Calcium	44-1	293655.66	299809.29	292095.47	295186.81	1.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.78	2.85	2.78	2.80	1.46	ppb
Cobalt	59-2	0.55	0.53	0.57	0.55	4.13	ppb
Copper	63-2	0.24	0.24	0.27	0.25	6.18	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				102		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				92		%
Iron	54-2	1039.69	1038.59	1031.83	1036.70	0.41	ppb
Iron	56-2	1097.87	1083.86	1082.80	1088.18	0.77	ppb
Iron	57-2	1048.20	1028.12	1030.42	1035.58	1.06	ppb
Krypton	83-1						cps
Lead	206-1	0.29	0.27	0.27	0.28	4.38	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.25	0.25	0.25	1.56	ppb
Lead	208-1	0.27	0.26	0.25	0.26	3.47	ppb
Lithium	6-1				97		%
Magnesium	24-2	76017.98	75769.05	73745.34	75177.46	1.66	ppb
Manganese	55-2	569.89	563.37	570.21	567.82	0.68	ppb
Molybdenum	94-1	0.65	0.69	0.75	0.70	6.71	ppb
Molybdenum	95-1	0.26	0.26	0.28	0.27	3.95	ppb
Molybdenum	96-1	0.31	0.30	0.30	0.30	2.11	ppb
Molybdenum	97-1	0.26	0.28	0.27	0.27	3.96	ppb
Molybdenum	98-1	0.24	0.25	0.25	0.25	2.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.74	1.78	1.76	1.76	1.14	ppb
Phosphorus	31-2	89.91	114.59	113.11	105.87	13.08	ppb
Potassium	39-2	3655.14	3607.99	3663.36	3642.17	0.82	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				100		%
Scandium	45-2				98		%
Selenium	82-1	0.33	0.57	0.39	0.43	29.48	ppb
Selenium	77-2	0.00	0.00	0.81	0.27	173.21	ppb
Selenium	78-2	0.34	-0.84	-0.37	-0.29		ppb
Silicon	28-1	8128.45	8069.63	8085.23	8094.44	0.38	ppb
Silver	107-1	0.01	0.03	0.01	0.01	81.15	ppb
Silver	109-1	0.00	0.00	0.00	0.00	28.27	ppb
Sodium	23-2	39890.95	39396.89	39169.48	39485.77	0.93	ppb
Strontium	86-1	311040.81	312570.28	309193.97	310935.02	0.54	ppb
Strontium	88-1	313363.09	311159.58	306866.78	310463.15	1.06	ppb
Sulfur	34-1	260012.67	258425.32	255612.57	258016.86	0.86	ppb
Terbium	159-1				100		%
Terbium	159-2				98		%
Thallium	203-1	0.01	0.01	0.01	0.01	6.42	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	8.46	ppb
Tin	118-1	0.69	0.69	0.67	0.68	2.04	ppb
Titanium	47-1	1.36	1.45	1.44	1.42	3.67	ppb
Uranium	238-1	0.58	0.57	0.57	0.58	1.20	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.51	0.51	0.48	0.50	3.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	2.58	2.57	2.24	2.47	7.80	ppb
Zirconium	90-1	0.25	0.26	0.25	0.25	2.05	ppb
Zirconium	91-1	0.27	0.23	0.25	0.25	7.07	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2193.50	2190.68	2149.54	2177.91	1.13	ppb
Antimony	121-1	0.20	0.22	0.22	0.21	4.51	ppb
Arsenic	75-2	6.42	6.44	6.17	6.34	2.37	ppb
Barium	135-1	185.03	187.59	191.75	188.12	1.80	ppb
Barium	137-1	189.37	189.02	192.61	190.33	1.04	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	1.73	ppb
Bismuth	209-1				94		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.99	1.16	1.18	1.11	9.29	ppb
Cadmium	106-1	0.32	0.22	0.29	0.28	18.40	ppb
Cadmium	111-1	0.25	0.22	0.25	0.24	5.98	ppb
Calcium	43-1	200343.89	199720.05	201165.32	200409.75	0.36	ppb
Calcium	44-1	200716.98	197142.02	196462.02	198107.01	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.62	6.16	6.26	6.34	3.79	ppb
Cobalt	59-2	0.72	0.73	0.72	0.72	0.69	ppb
Copper	63-2	1.44	1.42	1.34	1.40	3.79	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				102		%
Holmium	165-2				96		%
Indium	115-1				98		%
Indium	115-2				89		%
Iron	54-2	1541.66	1539.59	1513.43	1531.56	1.03	ppb
Iron	56-2	1590.21	1624.62	1593.66	1602.83	1.18	ppb
Iron	57-2	1533.17	1509.34	1507.98	1516.83	0.93	ppb
Krypton	83-1						cps
Lead	206-1	9.36	9.83	9.42	9.53	2.69	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	8.84	9.37	8.89	9.04	3.20	ppb
Lead	208-1	9.05	9.45	9.12	9.21	2.30	ppb
Lithium	6-1				99		%
Magnesium	24-2	558.23	541.70	541.43	547.12	1.76	ppb
Manganese	55-2	91.05	91.58	89.66	90.76	1.09	ppb
Molybdenum	94-1	61.91	63.84	64.03	63.26	1.86	ppb
Molybdenum	95-1	74.04	75.99	76.48	75.50	1.71	ppb
Molybdenum	96-1	73.23	74.92	74.60	74.25	1.21	ppb
Molybdenum	97-1	75.97	78.36	79.02	77.78	2.06	ppb
Molybdenum	98-1	74.33	76.60	76.90	75.94	1.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	183.38	180.84	177.18	180.47	1.73	ppb
Phosphorus	31-2	180.81	173.48	184.55	179.62	3.13	ppb
Potassium	39-2	120316.82	118532.87	116770.98	118540.22	1.50	ppb
Rhodium	103-1				94		%
Rhodium	103-2				91		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	2.88	2.56	2.98	2.80	7.80	ppb
Selenium	77-2	2.51	1.67	0.00	1.39	91.72	ppb
Selenium	78-2	1.32	0.12	1.50	0.98	76.95	ppb
Silicon	28-1	2153.28	2240.20	2276.13	2223.20	2.84	ppb
Silver	107-1	0.05	0.05	0.06	0.05	16.44	ppb
Silver	109-1	0.05	0.06	0.06	0.05	12.96	ppb
Sodium	23-2	310174.07	308952.80	303598.74	307575.20	1.14	ppb
Strontium	86-1	113072.03	114238.70	114897.66	114069.46	0.81	ppb
Strontium	88-1	114135.41	116172.26	115831.51	115379.72	0.95	ppb
Sulfur	34-1	10421.41	10252.74	10388.33	10354.16	0.86	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.03	0.03	0.02	0.03	3.63	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	0.45	ppb
Tin	118-1	0.27	0.29	0.26	0.27	4.87	ppb
Titanium	47-1	8.57	8.47	8.34	8.46	1.38	ppb
Uranium	238-1	0.03	0.04	0.04	0.04	2.10	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.47	3.59	3.43	3.50	2.36	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	54.37	54.74	52.98	54.03	1.72	ppb
Zirconium	90-1	0.33	0.31	0.31	0.31	3.09	ppb
Zirconium	91-1	0.33	0.32	0.33	0.33	0.92	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	285.47	288.11	291.48	288.35	1.04	ppb
Antimony	121-1	0.79	0.75	0.76	0.76	2.80	ppb
Arsenic	75-2	16.47	16.61	17.18	16.75	2.26	ppb
Barium	135-1	16.01	15.57	16.08	15.89	1.73	ppb
Barium	137-1	16.08	15.91	16.44	16.14	1.66	ppb
Beryllium	9-1	0.01	0.00	0.01	0.01	47.43	ppb
Bismuth	209-1				98		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	1.24	1.30	1.37	1.30	5.20	ppb
Cadmium	106-1	-0.25	-1.31	-0.01	-0.52		ppb
Cadmium	111-1	0.07	0.02	0.11	0.06	66.52	ppb
Calcium	43-1	36210.70	36438.85	37128.14	36592.56	1.31	ppb
Calcium	44-1	35951.65	35922.51	36063.79	35979.32	0.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.46	2.57	2.55	2.53	2.28	ppb
Cobalt	59-2	0.28	0.32	0.32	0.30	8.24	ppb
Copper	63-2	2.17	2.25	2.19	2.20	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				103		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	951.68	966.62	969.07	962.46	0.98	ppb
Iron	56-2	991.23	1003.80	1002.12	999.05	0.68	ppb
Iron	57-2	939.37	949.83	969.26	952.82	1.59	ppb
Krypton	83-1						cps
Lead	206-1	9.28	9.36	9.21	9.28	0.80	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	8.71	8.68	8.70	8.70	0.20	ppb
Lead	208-1	8.86	8.90	8.90	8.89	0.28	ppb
Lithium	6-1				97		%
Magnesium	24-2	137.67	142.25	142.94	140.96	2.03	ppb
Manganese	55-2	36.79	38.04	37.74	37.52	1.73	ppb
Molybdenum	94-1	91.35	90.66	90.90	90.97	0.39	ppb
Molybdenum	95-1	110.50	108.62	109.65	109.59	0.86	ppb
Molybdenum	96-1	107.49	106.90	106.01	106.80	0.70	ppb
Molybdenum	97-1	111.88	110.84	111.84	111.52	0.53	ppb
Molybdenum	98-1	116.96	116.66	115.22	116.28	0.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	50.44	51.42	52.28	51.38	1.79	ppb
Phosphorus	31-2	309.23	355.91	313.61	326.25	7.90	ppb
Potassium	39-2	88811.57	90997.93	92477.59	90762.36	2.03	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				95		%
Selenium	82-1	1.80	1.10	1.73	1.54	25.19	ppb
Selenium	77-2	0.00	0.84	3.39	1.41	125.29	ppb
Selenium	78-2	0.84	0.85	1.11	0.93	16.64	ppb
Silicon	28-1	28080.10	27856.59	28786.93	28241.21	1.72	ppb
Silver	107-1	0.04	0.05	0.05	0.04	4.02	ppb
Silver	109-1	0.05	0.04	0.04	0.04	6.26	ppb
Sodium	23-2	96006.58	96516.64	96484.55	96335.92	0.30	ppb
Strontium	86-1	18597.12	18840.80	18748.93	18728.95	0.66	ppb
Strontium	88-1	18710.91	18340.07	18737.83	18596.27	1.20	ppb
Sulfur	34-1	39902.93	40360.71	40413.10	40225.58	0.70	ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.01	0.01	0.01	19.49	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	2.35	ppb
Tin	118-1	0.07	0.06	0.06	0.06	5.18	ppb
Titanium	47-1	5.94	5.98	6.00	5.97	0.53	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	3.32	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.84	20.19	20.14	20.05	0.94	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				95		%
Zinc	66-2	59.03	58.75	60.65	59.48	1.72	ppb
Zirconium	90-1	0.08	0.08	0.10	0.09	12.76	ppb
Zirconium	91-1	0.08	0.10	0.11	0.10	14.61	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	379.19	349.11	369.12	365.81	4.19	ppb
Antimony	121-1	2.78	2.76	2.77	2.77	0.29	ppb
Arsenic	75-2	12.37	11.90	12.17	12.15	1.96	ppb
Barium	135-1	14.18	14.10	13.87	14.05	1.13	ppb
Barium	137-1	14.13	14.22	14.16	14.17	0.34	ppb
Beryllium	9-1	0.03	0.02	0.04	0.03	23.90	ppb
Bismuth	209-1				94		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	2.89	2.52	2.84	2.75	7.29	ppb
Cadmium	106-1	-0.38	-0.30	0.19	-0.16		ppb
Cadmium	111-1	0.16	0.17	0.20	0.18	11.69	ppb
Calcium	43-1	6828.79	6789.39	6928.62	6848.93	1.05	ppb
Calcium	44-1	7055.85	7035.32	7079.79	7056.98	0.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.06	1.90	2.07	2.01	4.79	ppb
Cobalt	59-2	0.61	0.58	0.60	0.59	2.81	ppb
Copper	63-2	5.93	5.81	6.04	5.93	1.94	ppb
Dysprosium	156-1						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				96		%
Indium	115-2				89		%
Iron	54-2	1075.79	1024.10	1056.84	1052.24	2.48	ppb
Iron	56-2	1096.76	1141.25	1128.40	1122.13	2.04	ppb
Iron	57-2	1050.97	1010.13	1032.72	1031.27	1.98	ppb
Krypton	83-1						cps
Lead	206-1	20.22	20.69	20.43	20.45	1.14	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	18.86	19.60	19.38	19.28	1.98	ppb
Lead	208-1	19.40	19.79	19.58	19.59	0.99	ppb
Lithium	6-1				96		%
Magnesium	24-2	7459.60	7099.38	7420.27	7326.42	2.70	ppb
Manganese	55-2	67.74	65.19	67.01	66.65	1.96	ppb
Molybdenum	94-1	177.66	180.70	180.98	179.78	1.03	ppb
Molybdenum	95-1	228.59	229.37	231.74	229.90	0.71	ppb
Molybdenum	96-1	229.85	229.14	227.93	228.97	0.42	ppb
Molybdenum	97-1	220.34	223.16	223.03	222.18	0.72	ppb
Molybdenum	98-1	226.78	232.13	231.99	230.30	1.32	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	59.84	57.37	58.83	58.68	2.11	ppb
Phosphorus	31-2	408.17	386.63	324.16	372.98	11.70	ppb
Potassium	39-2	188224.16	180680.90	182773.46	183892.84	2.12	ppb
Rhodium	103-1				93		%
Rhodium	103-2				91		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	1.68	1.90	1.49	1.69	12.01	ppb
Selenium	77-2	0.86	1.66	2.53	1.68	49.58	ppb
Selenium	78-2	1.64	1.30	0.13	1.02	77.58	ppb
Silicon	28-1	10757.41	10871.18	10996.93	10875.18	1.10	ppb
Silver	107-1	0.20	0.20	0.19	0.19	3.67	ppb
Silver	109-1	0.20	0.19	0.19	0.19	2.48	ppb
Sodium	23-2	193806.68	184085.77	191369.04	189753.83	2.67	ppb
Strontium	86-1	3029.00	3029.94	3032.69	3030.55	0.06	ppb
Strontium	88-1	3070.33	3124.83	3126.98	3107.38	1.03	ppb
Sulfur	34-1	49300.34	49681.32	50230.65	49737.43	0.94	ppb
Terbium	159-1				99		%
Terbium	159-2				95		%
Thallium	203-1	0.07	0.07	0.07	0.07	2.71	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	5.52	ppb
Tin	118-1	0.17	0.18	0.18	0.18	2.33	ppb
Titanium	47-1	9.19	9.01	9.10	9.10	1.00	ppb
Uranium	238-1	1.69	1.75	1.71	1.71	1.71	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	23.19	22.42	23.08	22.90	1.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	23.26	21.59	23.20	22.68	4.18	ppb
Zirconium	90-1	0.37	0.36	0.38	0.37	3.28	ppb
Zirconium	91-1	0.34	0.35	0.37	0.35	4.20	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.88	9.48	7.74	9.37	16.79	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.37	ppb
Arsenic	75-2	0.07	0.04	-0.01	0.03	123.77	ppb
Barium	135-1	9.17	9.06	9.20	9.15	0.78	ppb
Barium	137-1	9.35	9.31	9.40	9.36	0.51	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	17.87	ppb
Bismuth	209-1				88		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.04	0.05	0.05	29.54	ppb
Cadmium	106-1	0.12	-0.10	1.06	0.36	169.19	ppb
Cadmium	111-1	0.01	0.00	0.09	0.03	145.48	ppb
Calcium	43-1	538344.62	547407.89	536215.41	540655.98	1.10	ppb
Calcium	44-1	534562.03	551304.10	531190.63	539018.92	2.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.04	0.04	0.03	48.72	ppb
Cobalt	59-2	0.02	0.03	0.03	0.02	20.00	ppb
Copper	63-2	0.06	0.06	0.09	0.07	28.22	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				97		%
Holmium	165-2				93		%
Indium	115-1				93		%
Indium	115-2				87		%
Iron	54-2	3037.60	3003.42	3038.66	3026.56	0.66	ppb
Iron	56-2	3098.56	3103.45	3171.02	3124.34	1.30	ppb
Iron	57-2	3015.76	2980.61	3030.93	3009.10	0.86	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.09	0.09	4.67	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.09	0.09	0.09	8.55	ppb
Lead	208-1	0.08	0.09	0.09	0.09	3.61	ppb
Lithium	6-1				90		%
Magnesium	24-2	172394.46	170340.28	170163.20	170965.98	0.73	ppb
Manganese	55-2	75.02	72.37	73.30	73.56	1.82	ppb
Molybdenum	94-1	0.39	0.40	0.36	0.38	5.01	ppb
Molybdenum	95-1	0.42	0.42	0.43	0.42	0.67	ppb
Molybdenum	96-1	0.39	0.39	0.38	0.39	2.04	ppb
Molybdenum	97-1	0.46	0.38	0.40	0.41	10.17	ppb
Molybdenum	98-1	0.41	0.38	0.40	0.39	3.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.06	-0.01	-0.03	-0.04		ppb
Phosphorus	31-2	-16.83	-8.79	-17.81	-14.48		ppb
Potassium	39-2	4915.90	4873.81	4944.01	4911.24	0.72	ppb
Rhodium	103-1				88		%
Rhodium	103-2				86		%
Scandium	45-1				96		%
Scandium	45-2				94		%
Selenium	82-1	0.36	0.47	0.12	0.32	56.08	ppb
Selenium	77-2	0.85	0.00	0.86	0.57	86.60	ppb
Selenium	78-2	-0.10	-0.36	0.88	0.14	466.63	ppb
Silicon	28-1	8702.21	8844.63	8898.42	8815.09	1.15	ppb
Silver	107-1	0.03	0.02	0.03	0.03	7.87	ppb
Silver	109-1	0.02	0.02	0.02	0.02	2.93	ppb
Sodium	23-2	315455.01	308070.50	315057.49	312861.00	1.33	ppb
Strontium	86-1	379340.15	377009.27	380274.71	378874.71	0.44	ppb
Strontium	88-1	383806.06	379095.69	380505.21	381135.66	0.63	ppb
Sulfur	34-1	505181.35	508993.04	504636.47	506270.29	0.47	ppb
Terbium	159-1				97		%
Terbium	159-2				93		%
Thallium	203-1	0.01	0.03	0.03	0.02	35.20	ppb
Thallium	205-1	0.01	0.03	0.03	0.03	43.41	ppb
Tin	118-1	0.04	0.03	0.02	0.03	27.51	ppb
Titanium	47-1	1.09	1.07	1.08	1.08	1.35	ppb
Uranium	238-1	0.16	0.15	0.15	0.15	1.76	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.02	0.03	0.03	40.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	0.27	0.35	0.32	0.31	11.51	ppb
Zirconium	90-1	0.03	0.04	0.04	0.04	12.90	ppb
Zirconium	91-1	0.04	0.03	0.02	0.03	33.98	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	315.11	322.36	320.43	319.30	1.18	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	7.33	ppb
Arsenic	75-2	1.16	1.10	0.96	1.07	9.53	ppb
Barium	135-1	16.67	17.03	16.47	16.72	1.72	ppb
Barium	137-1	16.67	17.28	16.71	16.89	2.01	ppb
Beryllium	9-1	0.03	0.05	0.03	0.03	31.18	ppb
Bismuth	209-1				97		%
Bismuth	209-2				90		%
Bromine	81-1						cps
Cadmium	108-1	0.18	0.08	0.10	0.12	44.97	ppb
Cadmium	106-1	1.42	0.04	0.08	0.51	153.91	ppb
Cadmium	111-1	0.12	0.02	0.02	0.05	108.86	ppb
Calcium	43-1	215690.23	217839.13	215225.62	216251.66	0.64	ppb
Calcium	44-1	209436.88	213334.72	211763.23	211511.61	0.93	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.71	0.80	0.74	0.75	5.75	ppb
Cobalt	59-2	0.30	0.33	0.28	0.30	8.64	ppb
Copper	63-2	1.04	0.98	1.03	1.02	3.28	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				101		%
Holmium	165-2				94		%
Indium	115-1				100		%
Indium	115-2				89		%
Iron	54-2	1175.63	1164.22	1171.29	1170.38	0.49	ppb
Iron	56-2	1218.81	1212.39	1219.60	1216.93	0.33	ppb
Iron	57-2	1164.56	1133.98	1166.06	1154.87	1.57	ppb
Krypton	83-1						cps
Lead	206-1	0.57	0.56	0.53	0.55	4.37	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.53	0.52	0.52	0.52	0.76	ppb
Lead	208-1	0.54	0.53	0.52	0.53	1.31	ppb
Lithium	6-1				98		%
Magnesium	24-2	63773.60	63134.40	63524.12	63477.37	0.51	ppb
Manganese	55-2	97.35	96.77	97.27	97.13	0.33	ppb
Molybdenum	94-1	1.36	1.43	1.51	1.43	5.21	ppb
Molybdenum	95-1	0.85	0.85	0.87	0.86	0.97	ppb
Molybdenum	96-1	0.88	0.88	0.91	0.89	2.02	ppb
Molybdenum	97-1	0.82	0.87	0.90	0.86	4.62	ppb
Molybdenum	98-1	0.82	0.85	0.84	0.84	1.60	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.73	0.63	0.76	0.71	9.87	ppb
Phosphorus	31-2	-5.04	4.12	-6.58	-2.50		ppb
Potassium	39-2	3062.88	3032.97	3074.64	3056.83	0.70	ppb
Rhodium	103-1				96		%
Rhodium	103-2				92		%
Scandium	45-1				102		%
Scandium	45-2				94		%
Selenium	82-1	0.18	0.32	0.35	0.28	32.40	ppb
Selenium	77-2	0.83	0.85	2.58	1.42	70.78	ppb
Selenium	78-2	0.12	0.37	0.15	0.21	65.87	ppb
Silicon	28-1	5496.15	5574.17	5495.85	5522.06	0.82	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.17	ppb
Silver	109-1	0.01	0.01	0.00	0.01	26.93	ppb
Sodium	23-2	22096.13	21950.16	22489.45	22178.58	1.26	ppb
Strontium	86-1	424235.97	434801.25	445509.38	434848.87	2.45	ppb
Strontium	88-1	419671.81	432342.64	442403.46	431472.63	2.64	ppb
Sulfur	34-1	198085.14	198440.94	195206.80	197244.29	0.90	ppb
Terbium	159-1				101		%
Terbium	159-2				95		%
Thallium	203-1	0.04	0.03	0.04	0.04	22.24	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	7.94	ppb
Tin	118-1	0.08	0.08	0.08	0.08	0.36	ppb
Titanium	47-1	7.88	8.28	8.59	8.25	4.33	ppb
Uranium	238-1	0.22	0.22	0.22	0.22	1.45	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.98	1.00	1.06	1.01	4.26	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	3.20	3.04	3.22	3.15	3.15	ppb
Zirconium	90-1	0.36	0.37	0.39	0.37	2.88	ppb
Zirconium	91-1	0.38	0.38	0.41	0.39	3.91	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.56	9.49	9.20	9.08	5.25	ppb
Antimony	121-1	0.81	0.85	0.84	0.84	2.73	ppb
Arsenic	75-2	1.11	1.12	1.26	1.16	7.14	ppb
Barium	135-1	75.19	77.99	76.56	76.58	1.83	ppb
Barium	137-1	76.82	78.84	77.20	77.62	1.38	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	506.29	ppb
Bismuth	209-1				89		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	0.18	0.14	0.11	0.14	24.37	ppb
Cadmium	106-1	-0.01	-0.04	0.71	0.22	190.27	ppb
Cadmium	111-1	0.01	0.00	0.06	0.02	136.68	ppb
Calcium	43-1	502577.57	500886.98	506199.08	503221.21	0.54	ppb
Calcium	44-1	506820.19	498307.97	492384.49	499170.88	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.06	0.09	0.08	0.08	19.15	ppb
Cobalt	59-2	0.13	0.15	0.16	0.14	11.43	ppb
Copper	63-2	0.35	0.40	0.35	0.36	7.48	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				99		%
Holmium	165-2				93		%
Indium	115-1				94		%
Indium	115-2				87		%
Iron	54-2	71.03	72.25	73.91	72.40	2.00	ppb
Iron	56-2	74.11	74.23	73.94	74.09	0.20	ppb
Iron	57-2	81.22	80.98	86.90	83.03	4.04	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.07	0.07	0.07	7.35	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.08	0.05	0.06	23.34	ppb
Lead	208-1	0.06	0.07	0.06	0.06	11.40	ppb
Lithium	6-1				94		%
Magnesium	24-2	159238.20	165309.37	161106.51	161884.69	1.92	ppb
Manganese	55-2	39.15	40.66	40.71	40.17	2.20	ppb
Molybdenum	94-1	6.31	6.26	6.11	6.23	1.73	ppb
Molybdenum	95-1	7.49	7.59	7.56	7.55	0.69	ppb
Molybdenum	96-1	7.25	7.31	7.34	7.30	0.59	ppb
Molybdenum	97-1	7.60	7.84	7.67	7.70	1.60	ppb
Molybdenum	98-1	7.37	7.41	7.51	7.43	0.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.96	0.95	0.96	0.53	ppb
Phosphorus	31-2	-16.76	-13.27	-21.34	-17.12		ppb
Potassium	39-2	7258.17	7305.67	7402.70	7322.18	1.01	ppb
Rhodium	103-1				88		%
Rhodium	103-2				88		%
Scandium	45-1				98		%
Scandium	45-2				95		%
Selenium	82-1	0.25	0.99	0.61	0.62	59.82	ppb
Selenium	77-2	0.85	0.85	0.00	0.57	86.60	ppb
Selenium	78-2	0.38	-0.60	-0.11	-0.11		ppb
Silicon	28-1	7017.25	7104.42	7117.64	7079.77	0.77	ppb
Silver	107-1	0.01	0.02	0.02	0.02	14.54	ppb
Silver	109-1	0.01	0.01	0.01	0.01	23.79	ppb
Sodium	23-2	278658.29	282969.64	283485.73	281704.55	0.94	ppb
Strontium	86-1	354371.07	354548.71	355033.98	354651.25	0.10	ppb
Strontium	88-1	349398.32	358062.64	358630.93	355363.96	1.46	ppb
Sulfur	34-1	487066.65	492906.15	496643.62	492205.47	0.98	ppb
Terbium	159-1				97		%
Terbium	159-2				94		%
Thallium	203-1	0.08	0.08	0.09	0.08	6.15	ppb
Thallium	205-1	0.07	0.08	0.08	0.08	2.23	ppb
Tin	118-1	0.06	0.04	0.04	0.05	29.85	ppb
Titanium	47-1	0.95	0.88	0.84	0.89	6.23	ppb
Uranium	238-1	6.99	7.30	7.35	7.21	2.70	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.36	0.37	0.38	0.37	2.91	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	0.11	0.27	0.24	0.20	41.63	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.13	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	10.31	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18475.41	18013.13	18569.66	18352.73	1.62	ppb
Antimony	121-1	0.32	0.32	0.33	0.32	0.76	ppb
Arsenic	75-2	13.93	12.77	12.85	13.19	4.91	ppb
Barium	135-1	332.67	337.23	335.76	335.22	0.70	ppb
Barium	137-1	351.71	358.94	347.98	352.88	1.58	ppb
Beryllium	9-1	1.15	1.13	1.17	1.15	1.57	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	1.72	1.64	1.52	1.63	6.12	ppb
Cadmium	106-1	3.19	3.32	2.63	3.04	12.00	ppb
Cadmium	111-1	0.94	0.95	0.88	0.92	4.41	ppb
Calcium	43-1	148095.42	151326.28	153042.93	150821.54	1.67	ppb
Calcium	44-1	148760.31	149881.36	153744.90	150795.53	1.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	43.80	43.59	43.63	43.67	0.25	ppb
Cobalt	59-2	19.79	19.84	20.10	19.91	0.85	ppb
Copper	63-2	93.19	91.95	93.27	92.80	0.79	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				102		%
Holmium	165-2				97		%
Indium	115-1				98		%
Indium	115-2				91		%
Iron	54-2	42799.29	41677.18	42310.12	42262.20	1.33	ppb
Iron	56-2	42201.54	42149.87	42717.07	42356.16	0.74	ppb
Iron	57-2	42187.23	42547.75	43087.22	42607.40	1.06	ppb
Krypton	83-1						cps
Lead	206-1	54.80	55.74	56.23	55.59	1.31	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	51.47	52.90	53.94	52.77	2.34	ppb
Lead	208-1	54.73	55.06	56.43	55.41	1.63	ppb
Lithium	6-1				97		%
Magnesium	24-2	55619.31	55423.34	55238.69	55427.11	0.34	ppb
Manganese	55-2	1563.18	1534.20	1528.93	1542.10	1.20	ppb
Molybdenum	94-1	17.18	17.56	17.92	17.55	2.11	ppb
Molybdenum	95-1	7.56	7.61	7.67	7.61	0.78	ppb
Molybdenum	96-1	8.58	8.70	8.79	8.69	1.23	ppb
Molybdenum	97-1	7.77	7.81	7.91	7.83	0.93	ppb
Molybdenum	98-1	7.55	7.72	7.73	7.67	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.46	50.98	51.01	51.15	0.53	ppb
Phosphorus	31-2	1041.29	1014.10	972.87	1009.42	3.41	ppb
Potassium	39-2	3809.38	3801.43	3810.74	3807.18	0.13	ppb
Rhodium	103-1				95		%
Rhodium	103-2				93		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	1.12	0.89	1.39	1.13	21.99	ppb
Selenium	77-2	41.13	40.90	41.14	41.05	0.34	ppb
Selenium	78-2	5.89	5.62	6.21	5.90	5.06	ppb
Silicon	28-1	12254.23	12394.13	12584.85	12411.07	1.34	ppb
Silver	107-1	0.14	0.15	0.15	0.15	1.62	ppb
Silver	109-1	0.14	0.15	0.15	0.15	3.02	ppb
Sodium	23-2	14713.26	14620.32	14791.95	14708.51	0.58	ppb
Strontium	86-1	26167.94	26075.75	26450.60	26231.43	0.74	ppb
Strontium	88-1	25910.10	26303.19	26337.42	26183.57	0.91	ppb
Sulfur	34-1	22122.60	22430.90	22936.07	22496.52	1.83	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.42	0.46	0.46	0.45	5.06	ppb
Thallium	205-1	0.44	0.46	0.46	0.45	2.75	ppb
Tin	118-1	3.57	3.61	3.52	3.57	1.22	ppb
Titanium	47-1	185.06	184.13	191.87	187.02	2.26	ppb
Uranium	238-1	4.77	4.88	4.93	4.86	1.69	ppb

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	42.05	41.80	41.78	41.88	0.35	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	234.73	231.71	234.51	233.65	0.72	ppb
Zirconium	90-1	6.07	6.20	6.29	6.19	1.81	ppb
Zirconium	91-1	6.08	6.06	6.19	6.11	1.10	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.39	5.67	5.77	5.61	3.52	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	49.44	ppb
Arsenic	75-2	0.01	0.00	0.03	0.01	110.93	ppb
Barium	135-1	5.03	5.26	5.10	5.13	2.34	ppb
Barium	137-1	5.05	5.28	5.15	5.16	2.17	ppb
Beryllium	9-1	0.02	0.01	0.01	0.01	53.55	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.03	0.03	0.03	1.44	ppb
Cadmium	106-1	0.06	0.22	-0.21	0.02	990.29	ppb
Cadmium	111-1	0.01	0.02	-0.01	0.00	495.02	ppb
Calcium	43-1	279958.31	275587.68	287764.38	281103.45	2.19	ppb
Calcium	44-1	281343.71	273260.45	284403.36	279669.17	2.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.02	0.00	-0.01		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	24.83	ppb
Copper	63-2	0.07	0.02	0.07	0.05	54.50	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	54-2	1598.14	1390.83	1540.26	1509.74	7.09	ppb
Iron	56-2	1661.91	1439.14	1593.27	1564.77	7.29	ppb
Iron	57-2	1605.74	1375.92	1509.75	1497.14	7.71	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.05	0.02	0.04	32.64	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.03	0.03	0.03	13.49	ppb
Lead	208-1	0.04	0.03	0.03	0.04	19.21	ppb
Lithium	6-1				97		%
Magnesium	24-2	90739.70	79133.17	87169.85	85680.91	6.94	ppb
Manganese	55-2	38.25	33.67	37.46	36.46	6.71	ppb
Molybdenum	94-1	0.22	0.20	0.19	0.21	7.80	ppb
Molybdenum	95-1	0.22	0.22	0.21	0.22	2.03	ppb
Molybdenum	96-1	0.20	0.20	0.20	0.20	1.73	ppb
Molybdenum	97-1	0.21	0.20	0.20	0.20	3.09	ppb
Molybdenum	98-1	0.19	0.20	0.19	0.19	1.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.07	0.02	-0.02		ppb
Phosphorus	31-2	-31.47	-25.37	-29.29	-28.71		ppb
Potassium	39-2	2605.54	2226.31	2511.01	2447.62	8.07	ppb
Rhodium	103-1				94		%
Rhodium	103-2				97		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	0.28	-0.07	0.02	0.07	245.09	ppb
Selenium	77-2	0.00	0.72	1.59	0.77	103.31	ppb
Selenium	78-2	-0.38	0.20	0.30	0.04	924.61	ppb
Silicon	28-1	4466.74	4348.39	4538.12	4451.09	2.15	ppb
Silver	107-1	0.01	0.01	0.01	0.01	19.73	ppb
Silver	109-1	0.01	0.00	0.01	0.01	14.90	ppb
Sodium	23-2	164613.14	143197.10	159188.32	155666.19	7.15	ppb
Strontium	86-1	194900.06	198989.71	197409.67	197099.81	1.05	ppb
Strontium	88-1	195228.51	200451.48	199091.35	198257.11	1.37	ppb
Sulfur	34-1	261663.20	253199.95	264316.51	259726.55	2.24	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.01	0.00	0.00	0.00	53.59	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	19.48	ppb
Tin	118-1	0.08	0.04	0.00	0.04	94.14	ppb
Titanium	47-1	0.51	0.51	0.53	0.52	2.27	ppb
Uranium	238-1	0.08	0.07	0.08	0.08	2.44	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.02	0.03	0.02	34.50	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				104		%
Zinc	66-2	-0.01	0.16	0.05	0.07	135.06	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	10.04	ppb
Zirconium	91-1	0.02	0.02	0.01	0.01	20.15	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.12	4.56	5.50	5.06	9.29	ppb
Antimony	121-1	0.43	0.43	0.45	0.44	1.76	ppb
Arsenic	75-2	0.42	0.53	0.71	0.55	26.89	ppb
Barium	135-1	39.80	39.89	39.81	39.84	0.13	ppb
Barium	137-1	39.12	39.77	40.00	39.63	1.15	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	81.65	ppb
Bismuth	209-1				95		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.12	0.23	0.15	41.61	ppb
Cadmium	106-1	0.48	0.23	0.46	0.39	35.22	ppb
Cadmium	111-1	0.04	0.02	0.04	0.03	36.88	ppb
Calcium	43-1	250250.89	253497.55	251732.80	251827.08	0.65	ppb
Calcium	44-1	249073.81	256097.45	250881.21	252017.49	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.08	0.11	0.09	0.09	19.25	ppb
Cobalt	59-2	0.07	0.08	0.08	0.07	6.31	ppb
Copper	63-2	0.20	0.18	0.22	0.20	8.51	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				102		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				93		%
Iron	54-2	34.57	38.54	39.80	37.64	7.26	ppb
Iron	56-2	37.19	38.03	39.72	38.31	3.37	ppb
Iron	57-2	41.03	44.10	46.68	43.94	6.44	ppb
Krypton	83-1						cps
Lead	206-1	0.03	0.01	0.02	0.02	51.29	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.00	0.01	0.01	145.52	ppb
Lead	208-1	0.02	0.00	0.01	0.01	67.97	ppb
Lithium	6-1				100		%
Magnesium	24-2	79907.19	78714.93	82682.77	80434.97	2.53	ppb
Manganese	55-2	19.81	20.41	20.96	20.40	2.82	ppb
Molybdenum	94-1	3.03	3.32	3.22	3.19	4.59	ppb
Molybdenum	95-1	3.80	3.83	3.83	3.82	0.57	ppb
Molybdenum	96-1	3.65	3.69	3.73	3.69	1.03	ppb
Molybdenum	97-1	3.88	3.98	3.96	3.94	1.35	ppb
Molybdenum	98-1	3.83	3.85	3.83	3.83	0.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.61	0.58	0.68	0.62	8.00	ppb
Phosphorus	31-2	-18.74	-24.34	-23.42	-22.17		ppb
Potassium	39-2	3617.27	3675.79	3783.39	3692.15	2.28	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				105		%
Scandium	45-2				100		%
Selenium	82-1	0.39	0.36	0.63	0.46	33.13	ppb
Selenium	77-2	0.00	0.80	0.82	0.54	86.62	ppb
Selenium	78-2	0.07	0.08	0.34	0.16	95.47	ppb
Silicon	28-1	3534.76	3577.00	3485.27	3532.34	1.30	ppb
Silver	107-1	0.01	0.01	0.01	0.01	17.13	ppb
Silver	109-1	0.00	0.01	0.00	0.00	44.88	ppb
Sodium	23-2	138806.37	140043.92	146282.72	141711.00	2.83	ppb
Strontium	86-1	177855.82	179478.04	180074.93	179136.26	0.64	ppb
Strontium	88-1	180407.51	182069.00	177974.23	180150.24	1.14	ppb
Sulfur	34-1	244327.51	249058.75	242747.64	245377.97	1.34	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.03	0.04	0.03	0.03	5.63	ppb
Thallium	205-1	0.04	0.03	0.04	0.04	6.41	ppb
Tin	118-1	0.02	0.01	0.02	0.02	27.42	ppb
Titanium	47-1	0.42	0.45	0.42	0.43	4.40	ppb
Uranium	238-1	3.51	3.54	3.46	3.50	1.19	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.16	0.17	0.16	0.16	1.48	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	0.02	0.04	0.05	0.04	47.88	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	14.77	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	27.68	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51304.84	52008.19	52250.84	51854.62	0.95	ppb
Antimony	121-1	508.88	496.37	505.47	503.58	1.28	ppb
Arsenic	75-2	501.69	506.24	504.55	504.16	0.46	ppb
Barium	135-1	2551.20	2513.85	2519.40	2528.15	0.80	ppb
Barium	137-1	2587.24	2471.88	2521.94	2527.02	2.29	ppb
Beryllium	9-1	516.88	513.44	502.57	510.96	1.46	ppb
Bismuth	209-1				89		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	509.56	489.33	498.33	499.07	2.03	ppb
Cadmium	106-1	510.72	491.69	499.64	500.69	1.91	ppb
Cadmium	111-1	485.17	494.86	490.38	490.13	0.99	ppb
Calcium	43-1	254068.58	254612.58	254136.32	254272.49	0.12	ppb
Calcium	44-1	256323.39	256405.39	256141.34	256290.04	0.05	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.04	493.04	505.90	500.99	1.39	ppb
Cobalt	59-2	490.35	497.39	491.67	493.14	0.76	ppb
Copper	63-2	4780.91	4741.44	4788.41	4770.25	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				98		%
Holmium	165-2				95		%
Indium	115-1				92		%
Indium	115-2				86		%
Iron	54-2	127185.43	126542.63	128350.88	127359.65	0.72	ppb
Iron	56-2	127651.59	126916.85	126642.93	127070.46	0.41	ppb
Iron	57-2	124660.28	125885.80	125932.02	125492.70	0.57	ppb
Krypton	83-1						cps
Lead	206-1	2593.19	2575.88	2592.62	2587.23	0.38	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2603.53	2543.07	2572.17	2572.93	1.18	ppb
Lead	208-1	2600.22	2557.20	2582.68	2580.04	0.84	ppb
Lithium	6-1				90		%
Magnesium	24-2	253341.27	256178.80	252034.08	253851.39	0.83	ppb
Manganese	55-2	4935.50	4925.26	4955.90	4938.89	0.32	ppb
Molybdenum	94-1	4923.07	5062.89	5049.82	5011.93	1.54	ppb
Molybdenum	95-1	4892.91	5049.05	4991.93	4977.96	1.59	ppb
Molybdenum	96-1	4954.81	5008.86	5036.89	5000.19	0.83	ppb
Molybdenum	97-1	5016.99	5025.46	5120.15	5054.20	1.13	ppb
Molybdenum	98-1	4986.71	5005.30	5074.93	5022.32	0.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	446.86	452.78	451.39	450.34	0.69	ppb
Phosphorus	31-2	9812.05	9974.58	10021.93	9936.19	1.11	ppb
Potassium	39-2	123883.45	125128.08	126265.20	125092.24	0.95	ppb
Rhodium	103-1				89		%
Rhodium	103-2				88		%
Scandium	45-1				96		%
Scandium	45-2				96		%
Selenium	82-1	480.66	487.54	487.57	485.26	0.82	ppb
Selenium	77-2	500.19	506.35	499.18	501.91	0.77	ppb
Selenium	78-2	494.06	486.62	486.15	488.94	0.91	ppb
Silicon	28-1	514.95	523.46	528.64	522.35	1.32	ppb
Silver	107-1	487.50	482.98	481.37	483.95	0.66	ppb
Silver	109-1	481.48	480.75	485.02	482.41	0.47	ppb
Sodium	23-2	264623.41	266833.29	260589.99	264015.56	1.20	ppb
Strontium	86-1	12648.65	12649.10	12906.35	12734.70	1.17	ppb
Strontium	88-1	12560.49	12817.16	12626.76	12668.14	1.05	ppb
Sulfur	34-1	11471.27	11191.66	11132.24	11265.06	1.61	ppb
Terbium	159-1				98		%
Terbium	159-2				94		%
Thallium	203-1	522.19	520.64	513.57	518.80	0.89	ppb
Thallium	205-1	518.48	517.89	520.47	518.95	0.26	ppb
Tin	118-1	505.36	486.07	504.13	498.52	2.17	ppb
Titanium	47-1	5043.98	4986.36	5077.88	5036.07	0.92	ppb
Uranium	238-1	524.41	508.40	514.41	515.74	1.57	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.90	504.93	516.90	511.24	1.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				94		%
Zinc	66-2	4798.31	4814.83	4900.78	4837.97	1.14	ppb
Zirconium	90-1	501.33	513.62	514.05	509.66	1.42	ppb
Zirconium	91-1	498.75	512.59	509.34	506.89	1.43	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.16	1.40	1.11	1.22	12.75	ppb
Antimony	121-1	0.10	0.09	0.09	0.09	7.77	ppb
Arsenic	75-2	0.02	-0.02	-0.03	-0.01		ppb
Barium	135-1	-0.06	-0.07	-0.08	-0.07		ppb
Barium	137-1	-0.06	-0.07	-0.08	-0.07		ppb
Beryllium	9-1	0.11	0.11	0.11	0.11	2.27	ppb
Bismuth	209-1				102		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.08	0.10	0.08	23.47	ppb
Cadmium	106-1	0.13	-0.25	0.38	0.09	355.84	ppb
Cadmium	111-1	0.03	0.01	0.04	0.03	72.03	ppb
Calcium	43-1	-21.53	-19.26	-23.95	-21.58		ppb
Calcium	44-1	-20.79	-22.29	-21.25	-21.44		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.03	0.04	0.03	28.36	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	14.00	ppb
Copper	63-2	0.17	0.15	0.15	0.16	4.32	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				102		%
Holmium	165-2				99		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	3.30	3.71	4.38	3.80	14.39	ppb
Iron	56-2	3.93	4.16	4.15	4.08	3.09	ppb
Iron	57-2	3.78	3.90	3.45	3.71	6.38	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.13	0.11	0.13	11.00	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.12	0.13	0.11	0.12	6.63	ppb
Lead	208-1	0.13	0.12	0.11	0.12	7.26	ppb
Lithium	6-1				100		%
Magnesium	24-2	1.39	2.46	2.32	2.06	28.42	ppb
Manganese	55-2	0.15	0.17	0.14	0.15	9.43	ppb
Molybdenum	94-1	0.16	0.16	0.15	0.16	5.51	ppb
Molybdenum	95-1	0.15	0.14	0.14	0.14	4.61	ppb
Molybdenum	96-1	0.15	0.14	0.15	0.15	5.25	ppb
Molybdenum	97-1	0.17	0.14	0.14	0.15	10.73	ppb
Molybdenum	98-1	0.14	0.14	0.14	0.14	1.52	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	0.01	0.04	0.02	64.73	ppb
Phosphorus	31-2	-31.89	-23.93	-8.46	-21.43		ppb
Potassium	39-2	24.83	27.77	26.12	26.24	5.63	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				104		%
Scandium	45-2				100		%
Selenium	82-1	-0.11	-0.08	-0.11	-0.10		ppb
Selenium	77-2	0.00	0.00	0.82	0.27	173.21	ppb
Selenium	78-2	-0.16	-0.37	-0.37	-0.30		ppb
Silicon	28-1	15.98	14.03	13.92	14.64	7.90	ppb
Silver	107-1	0.04	0.04	0.03	0.04	13.64	ppb
Silver	109-1	0.04	0.04	0.03	0.04	14.71	ppb
Sodium	23-2	71.21	71.44	66.56	69.73	3.95	ppb
Strontium	86-1	1.83	0.89	1.20	1.31	36.76	ppb
Strontium	88-1	1.82	1.79	1.58	1.73	7.75	ppb
Sulfur	34-1	-305.45	-356.58	-123.15	-261.73		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.05	0.05	0.04	0.05	1.41	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	11.87	ppb
Tin	118-1	0.02	0.00	0.03	0.01	71.50	ppb
Titanium	47-1	0.16	0.11	0.13	0.13	20.93	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	9.09	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.01	0.00	118.89	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				98		%
Zinc	66-2	0.05	0.15	-0.08	0.04	264.18	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	9.09	ppb
Zirconium	91-1	0.01	0.03	0.01	0.02	45.38	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.41	0.70	0.31	0.48	42.38	ppb
Antimony	121-1	0.03	0.02	0.03	0.02	8.53	ppb
Arsenic	75-2	-0.02	0.00	-0.02	-0.02		ppb
Barium	135-1	-0.11	-0.12	-0.11	-0.11		ppb
Barium	137-1	-0.12	-0.12	-0.12	-0.12		ppb
Beryllium	9-1	0.06	0.06	0.06	0.06	5.83	ppb
Bismuth	209-1				102		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	0.06	0.04	53.71	ppb
Cadmium	106-1	-0.54	0.65	0.83	0.32	235.43	ppb
Cadmium	111-1	-0.04	0.06	0.06	0.03	225.57	ppb
Calcium	43-1	-27.67	-27.22	-27.05	-27.31		ppb
Calcium	44-1	-28.56	-29.11	-29.41	-29.02		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	-0.04	-0.03	-0.03		ppb
Cobalt	59-2	0.01	0.00	0.01	0.01	38.75	ppb
Copper	63-2	0.08	0.05	0.08	0.07	20.87	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				102		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				96		%
Iron	54-2	1.15	1.11	1.51	1.26	17.49	ppb
Iron	56-2	1.18	1.00	1.34	1.17	14.69	ppb
Iron	57-2	0.69	0.64	0.28	0.53	41.41	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.03	0.04	0.04	14.06	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.03	0.03	0.04	28.90	ppb
Lead	208-1	0.05	0.04	0.04	0.04	14.06	ppb
Lithium	6-1				99		%
Magnesium	24-2	-2.24	-3.24	-2.94	-2.80		ppb
Manganese	55-2	0.04	0.08	0.03	0.05	51.63	ppb
Molybdenum	94-1	0.03	0.04	0.03	0.03	17.51	ppb
Molybdenum	95-1	0.03	0.03	0.03	0.03	7.08	ppb
Molybdenum	96-1	0.02	0.03	0.03	0.03	20.25	ppb
Molybdenum	97-1	0.03	0.03	0.02	0.03	20.44	ppb
Molybdenum	98-1	0.02	0.03	0.03	0.03	17.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.03	0.00	0.13	0.05	133.44	ppb
Phosphorus	31-2	-27.26	-27.57	-27.42	-27.42		ppb
Potassium	39-2	19.68	15.13	17.31	17.37	13.12	ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				104		%
Scandium	45-2				99		%
Selenium	82-1	0.17	-0.03	0.31	0.15	115.77	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.60	-0.38	0.09	-0.30		ppb
Silicon	28-1	7.71	7.38	7.20	7.43	3.46	ppb
Silver	107-1	0.01	0.01	0.01	0.01	22.07	ppb
Silver	109-1	0.01	0.01	0.01	0.01	12.04	ppb
Sodium	23-2	58.91	47.65	56.17	54.24	10.82	ppb
Strontium	86-1	0.34	0.71	0.71	0.59	35.98	ppb
Strontium	88-1	0.88	0.74	0.74	0.79	9.83	ppb
Sulfur	34-1	-357.40	-162.23	-310.22	-276.61		ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.03	0.03	0.03	0.03	0.97	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	3.30	ppb
Tin	118-1	0.01	-0.01	0.00	0.00		ppb
Titanium	47-1	0.27	0.27	0.26	0.27	2.02	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	32.33	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		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	-0.10	-0.17	-0.18	-0.15		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	65.84	ppb
Zirconium	91-1	0.00	0.00	0.01	0.01	68.85	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.19	42.33	41.53	41.68	1.40	ppb
Antimony	121-1	4.23	4.34	4.35	4.31	1.60	ppb
Arsenic	75-2	2.21	2.20	2.27	2.22	1.74	ppb
Barium	135-1	20.69	20.61	21.03	20.77	1.07	ppb
Barium	137-1	20.99	21.08	20.93	21.00	0.37	ppb
Beryllium	9-1	2.10	2.07	2.15	2.10	1.88	ppb
Bismuth	209-1				101		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	2.16	2.22	2.35	2.24	4.32	ppb
Cadmium	106-1	2.62	2.58	2.49	2.56	2.73	ppb
Cadmium	111-1	2.31	2.22	2.15	2.23	3.64	ppb
Calcium	43-1	1012.70	994.40	1062.97	1023.35	3.47	ppb
Calcium	44-1	1000.56	1020.37	1043.19	1021.37	2.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.09	3.89	4.04	4.01	2.58	ppb
Cobalt	59-2	2.28	2.20	2.17	2.22	2.55	ppb
Copper	63-2	4.79	4.86	4.81	4.82	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				102		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				95		%
Iron	54-2	445.56	447.99	442.01	445.19	0.68	ppb
Iron	56-2	436.30	443.09	434.85	438.08	1.00	ppb
Iron	57-2	437.23	427.55	427.87	430.88	1.28	ppb
Krypton	83-1						cps
Lead	206-1	2.04	2.04	2.02	2.03	0.43	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.05	2.11	2.05	2.07	1.63	ppb
Lead	208-1	2.04	2.07	2.01	2.04	1.58	ppb
Lithium	6-1				101		%
Magnesium	24-2	1038.26	1023.31	1031.44	1031.00	0.73	ppb
Manganese	55-2	2.20	2.13	2.09	2.14	2.48	ppb
Molybdenum	94-1	11.90	11.98	11.71	11.86	1.14	ppb
Molybdenum	95-1	9.94	10.01	10.02	9.99	0.46	ppb
Molybdenum	96-1	10.11	10.35	10.01	10.15	1.74	ppb
Molybdenum	97-1	10.24	10.36	10.06	10.22	1.44	ppb
Molybdenum	98-1	9.99	10.03	9.86	9.96	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.11	2.12	2.09	2.11	0.87	ppb
Phosphorus	31-2	18.92	38.26	49.98	35.72	43.90	ppb
Potassium	39-2	1051.41	1048.53	1037.89	1045.94	0.68	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				98		%
Selenium	82-1	11.08	11.08	10.46	10.87	3.30	ppb
Selenium	77-2	15.49	11.43	11.53	12.82	18.08	ppb
Selenium	78-2	13.70	10.19	12.66	12.18	14.78	ppb
Silicon	28-1	26.92	27.71	29.67	28.10	5.03	ppb
Silver	107-1	2.13	2.11	2.20	2.15	2.15	ppb
Silver	109-1	2.09	2.15	2.16	2.14	1.77	ppb
Sodium	23-2	1154.40	1161.22	1142.91	1152.84	0.80	ppb
Strontium	86-1	51.52	51.15	51.38	51.35	0.37	ppb
Strontium	88-1	51.55	52.58	51.37	51.83	1.26	ppb
Sulfur	34-1	-313.27	-234.68	29.40	-172.85		ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	2.01	2.04	2.03	2.03	0.83	ppb
Thallium	205-1	2.03	2.07	2.01	2.04	1.54	ppb
Tin	118-1	10.61	10.72	10.87	10.73	1.18	ppb
Titanium	47-1	2.69	2.57	2.83	2.70	4.94	ppb
Uranium	238-1	1.88	1.88	1.88	1.88	0.04	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.61	10.64	10.56	10.60	0.42	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	10.12	10.57	10.54	10.41	2.40	ppb
Zirconium	90-1	1.99	1.98	1.98	1.98	0.20	ppb
Zirconium	91-1	1.99	2.01	1.97	1.99	0.96	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1313.55	1320.12	1330.77	1321.48	0.66	ppb
Antimony	121-1	606.51	608.66	610.84	608.67	0.36	ppb
Arsenic	75-2	650.80	652.06	643.13	648.67	0.75	ppb
Barium	135-1	1246.71	1246.80	1279.99	1257.83	1.53	ppb
Barium	137-1	1238.50	1260.25	1241.08	1246.61	0.95	ppb
Beryllium	9-1	142.36	141.32	143.23	142.30	0.67	ppb
Bismuth	209-1				102		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	563.48	581.58	577.89	574.32	1.67	ppb
Cadmium	106-1	557.40	560.48	561.47	559.78	0.38	ppb
Cadmium	111-1	709.16	711.84	711.77	710.92	0.21	ppb
Calcium	43-1	23.89	24.39	28.62	25.63	10.14	ppb
Calcium	44-1	4.61	5.90	6.85	5.78	19.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	305.84	303.12	308.11	305.69	0.82	ppb
Cobalt	59-2	267.54	256.40	261.25	261.73	2.13	ppb
Copper	63-2	926.67	909.91	928.24	921.61	1.10	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				102		%
Holmium	165-2				97		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	2319.83	2322.06	2327.65	2323.18	0.17	ppb
Iron	56-2	2133.12	2102.20	2121.35	2118.89	0.74	ppb
Iron	57-2	2024.18	2024.01	2058.84	2035.68	0.99	ppb
Krypton	83-1						cps
Lead	206-1	736.68	755.58	763.04	751.77	1.81	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	703.85	736.65	718.46	719.65	2.28	ppb
Lead	208-1	727.25	738.84	739.99	735.36	0.96	ppb
Lithium	6-1				100		%
Magnesium	24-2	-3.45	-4.63	-3.78	-3.95		ppb
Manganese	55-2	755.95	752.54	760.18	756.22	0.51	ppb
Molybdenum	94-1	396.70	400.13	395.04	397.29	0.65	ppb
Molybdenum	95-1	471.62	486.69	475.54	477.95	1.64	ppb
Molybdenum	96-1	464.82	480.09	470.49	471.80	1.64	ppb
Molybdenum	97-1	482.22	496.66	495.19	491.36	1.62	ppb
Molybdenum	98-1	473.53	488.17	486.28	482.66	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	539.55	536.15	546.15	540.62	0.94	ppb
Phosphorus	31-2	-28.20	-21.31	-26.03	-25.18		ppb
Potassium	39-2	14.80	13.86	14.26	14.31	3.28	ppb
Rhodium	103-1				103		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				97		%
Selenium	82-1	248.34	256.78	257.04	254.05	1.95	ppb
Selenium	77-2	249.08	286.75	250.13	261.99	8.19	ppb
Selenium	78-2	254.05	250.27	249.15	251.16	1.02	ppb
Silicon	28-1	4.15	4.09	3.91	4.05	3.13	ppb
Silver	107-1	778.48	788.91	768.94	778.78	1.28	ppb
Silver	109-1	766.82	784.03	767.89	772.91	1.25	ppb
Sodium	23-2	48.70	49.21	50.99	49.63	2.43	ppb
Strontium	86-1	1444.65	1485.32	1480.51	1470.16	1.51	ppb
Strontium	88-1	1499.04	1558.28	1521.42	1526.25	1.96	ppb
Sulfur	34-1	-693.68	-818.55	-989.77	-834.00		ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	721.71	741.39	750.25	737.78	1.98	ppb
Thallium	205-1	733.90	736.76	749.08	739.91	1.09	ppb
Tin	118-1	0.00	-0.01	0.00	-0.01		ppb
Titanium	47-1	0.32	0.34	0.29	0.32	7.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	63.41	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1706.62	1656.17	1717.33	1693.37	1.93	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	1027.21	1025.46	1036.02	1029.56	0.55	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	3.15	ppb
Zirconium	91-1	0.32	0.33	0.29	0.31	6.66	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3554.34	3549.98	3497.91	3534.08	0.89	ppb
Antimony	121-1	837.25	850.05	845.98	844.43	0.77	ppb
Arsenic	75-2	331.45	331.09	333.60	332.05	0.41	ppb
Barium	135-1	625.86	615.20	616.53	619.20	0.94	ppb
Barium	137-1	626.99	604.19	620.87	617.35	1.91	ppb
Beryllium	9-1	149.40	153.61	147.69	150.23	2.03	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	249.59	247.06	253.81	250.16	1.36	ppb
Cadmium	106-1	240.80	235.72	236.46	237.66	1.15	ppb
Cadmium	111-1	290.16	289.89	294.16	291.40	0.82	ppb
Calcium	43-1	21.93	26.46	23.64	24.01	9.53	ppb
Calcium	44-1	0.29	3.42	2.88	2.20	76.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	382.45	368.48	375.71	375.55	1.86	ppb
Cobalt	59-2	834.93	829.81	824.98	829.90	0.60	ppb
Copper	63-2	242.73	241.68	239.62	241.35	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				97		%
Indium	115-1				103		%
Indium	115-2				93		%
Iron	54-2	3315.27	3307.15	3281.45	3301.29	0.53	ppb
Iron	56-2	3097.26	3094.17	3103.05	3098.16	0.15	ppb
Iron	57-2	2986.57	2952.26	2963.05	2967.29	0.59	ppb
Krypton	83-1						cps
Lead	206-1	966.34	984.23	973.78	974.78	0.92	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	936.61	929.99	950.32	938.97	1.10	ppb
Lead	208-1	952.75	952.45	964.47	956.56	0.72	ppb
Lithium	6-1				100		%
Magnesium	24-2	-3.37	-2.91	-3.02	-3.10		ppb
Manganese	55-2	646.07	640.14	643.19	643.13	0.46	ppb
Molybdenum	94-1	472.38	483.21	477.21	477.60	1.14	ppb
Molybdenum	95-1	576.76	572.91	584.94	578.20	1.06	ppb
Molybdenum	96-1	574.66	573.90	572.81	573.79	0.16	ppb
Molybdenum	97-1	585.56	594.61	585.16	588.44	0.91	ppb
Molybdenum	98-1	571.89	587.47	580.32	579.89	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1950.59	1887.16	1923.61	1920.45	1.66	ppb
Phosphorus	31-2	-28.07	-29.19	-27.30	-28.19		ppb
Potassium	39-2	11.96	14.24	13.39	13.20	8.73	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				97		%
Selenium	82-1	694.48	692.96	687.05	691.50	0.57	ppb
Selenium	77-2	713.25	741.47	659.88	704.87	5.88	ppb
Selenium	78-2	682.43	689.78	682.91	685.04	0.60	ppb
Silicon	28-1	2.28	3.58	3.46	3.11	23.10	ppb
Silver	107-1	1026.53	994.81	1010.81	1010.71	1.57	ppb
Silver	109-1	1010.31	1006.69	1030.47	1015.82	1.26	ppb
Sodium	23-2	53.00	49.98	49.67	50.88	3.62	ppb
Strontium	86-1	1847.38	1870.03	1868.09	1861.84	0.67	ppb
Strontium	88-1	1922.09	1946.45	1935.55	1934.69	0.63	ppb
Sulfur	34-1	-1216.53	-1021.65	-1138.76	-1125.64		ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	180.01	181.06	176.97	179.35	1.19	ppb
Thallium	205-1	178.24	177.86	176.51	177.53	0.51	ppb
Tin	118-1	0.02	0.01	0.02	0.02	59.10	ppb
Titanium	47-1	0.31	0.32	0.35	0.33	6.26	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	114.69	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	83.65	82.17	83.84	83.22	1.10	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	1273.63	1269.39	1263.99	1269.00	0.38	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	32.01	ppb
Zirconium	91-1	0.14	0.15	0.15	0.15	1.62	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3491.46	3503.43	3467.78	3487.56	0.52	ppb
Antimony	121-1	0.45	0.44	0.41	0.43	4.40	ppb
Arsenic	75-2	13.06	13.43	12.23	12.91	4.77	ppb
Barium	135-1	20.62	21.26	20.84	20.91	1.55	ppb
Barium	137-1	21.06	21.31	21.00	21.12	0.78	ppb
Beryllium	9-1	0.27	0.27	0.26	0.27	3.15	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.23	0.17	0.24	0.22	17.05	ppb
Cadmium	106-1	-0.39	0.32	0.37	0.10	421.34	ppb
Cadmium	111-1	0.06	0.12	0.14	0.11	37.61	ppb
Calcium	43-1	31144.41	31658.46	30795.36	31199.41	1.39	ppb
Calcium	44-1	30796.38	30979.34	30676.87	30817.53	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	6.42	6.44	6.41	6.42	0.23	ppb
Cobalt	59-2	2.14	2.15	2.11	2.13	1.11	ppb
Copper	63-2	3.03	3.13	3.02	3.06	1.96	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				96		%
Indium	115-1				98		%
Indium	115-2				91		%
Iron	54-2	7891.98	7745.06	7713.79	7783.61	1.22	ppb
Iron	56-2	8173.69	8088.45	7963.90	8075.35	1.31	ppb
Iron	57-2	7768.66	7623.57	7620.52	7670.92	1.10	ppb
Krypton	83-1						cps
Lead	206-1	8.89	8.78	8.80	8.82	0.66	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	8.52	8.40	8.47	8.46	0.69	ppb
Lead	208-1	8.66	8.59	8.58	8.61	0.49	ppb
Lithium	6-1				97		%
Magnesium	24-2	10793.95	10766.55	10665.50	10742.00	0.63	ppb
Manganese	55-2	148.46	144.99	144.82	146.09	1.41	ppb
Molybdenum	94-1	0.86	0.83	0.86	0.85	2.10	ppb
Molybdenum	95-1	0.21	0.20	0.20	0.20	4.40	ppb
Molybdenum	96-1	0.27	0.27	0.27	0.27	0.85	ppb
Molybdenum	97-1	0.21	0.21	0.20	0.20	3.77	ppb
Molybdenum	98-1	0.21	0.19	0.19	0.20	5.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.87	6.94	6.87	6.89	0.59	ppb
Phosphorus	31-2	267.01	235.32	270.10	257.48	7.48	ppb
Potassium	39-2	886.06	886.05	877.77	883.29	0.54	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				96		%
Selenium	82-1	0.44	0.62	0.68	0.58	21.58	ppb
Selenium	77-2	4.25	3.39	8.14	5.26	48.12	ppb
Selenium	78-2	1.85	1.11	1.73	1.56	25.42	ppb
Silicon	28-1	6873.41	6948.87	6768.52	6863.60	1.32	ppb
Silver	107-1	0.14	0.14	0.13	0.14	5.73	ppb
Silver	109-1	0.16	0.14	0.14	0.14	6.34	ppb
Sodium	23-2	5471.36	5501.01	5287.80	5420.06	2.13	ppb
Strontium	86-1	2719.05	2708.36	2664.99	2697.47	1.06	ppb
Strontium	88-1	2804.71	2830.72	2719.99	2785.14	2.08	ppb
Sulfur	34-1	3626.15	3717.85	3926.13	3756.71	4.09	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.10	0.10	0.10	0.10	1.80	ppb
Thallium	205-1	0.10	0.11	0.10	0.10	4.21	ppb
Tin	118-1	0.04	0.02	0.02	0.03	38.68	ppb
Titanium	47-1	139.56	139.36	139.86	139.59	0.18	ppb
Uranium	238-1	0.65	0.64	0.65	0.64	1.35	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	7.13	7.05	6.99	7.06	0.99	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	22.24	21.02	21.39	21.55	2.90	ppb
Zirconium	90-1	0.35	0.45	0.36	0.39	13.42	ppb
Zirconium	91-1	0.39	0.32	0.35	0.35	9.66	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.44	17.07	17.37	17.96	7.20	ppb
Antimony	121-1	0.18	0.18	0.18	0.18	1.27	ppb
Arsenic	75-2	1.24	1.46	1.49	1.40	9.95	ppb
Barium	135-1	6.48	6.49	6.54	6.50	0.45	ppb
Barium	137-1	6.76	6.59	6.66	6.67	1.33	ppb
Beryllium	9-1	0.06	0.05	0.05	0.05	5.48	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.04	0.14	0.10	57.01	ppb
Cadmium	106-1	0.96	0.46	0.08	0.50	89.01	ppb
Cadmium	111-1	0.08	0.05	0.02	0.05	65.93	ppb
Calcium	43-1	55543.93	56301.52	58051.48	56632.31	2.27	ppb
Calcium	44-1	56377.91	56339.30	56707.73	56474.98	0.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.72	0.65	0.69	0.69	5.02	ppb
Cobalt	59-2	0.13	0.11	0.12	0.12	7.31	ppb
Copper	63-2	0.52	0.42	0.50	0.48	10.79	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				102		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	54-2	136.10	129.36	135.44	133.64	2.78	ppb
Iron	56-2	134.63	132.11	134.09	133.61	0.99	ppb
Iron	57-2	129.87	127.76	133.93	130.52	2.40	ppb
Krypton	83-1						cps
Lead	206-1	0.11	0.10	0.11	0.11	5.08	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.11	0.10	0.10	0.10	7.37	ppb
Lead	208-1	0.11	0.10	0.10	0.11	5.09	ppb
Lithium	6-1				97		%
Magnesium	24-2	19117.45	18952.68	19138.04	19069.39	0.53	ppb
Manganese	55-2	65.69	64.29	66.51	65.50	1.71	ppb
Molybdenum	94-1	0.17	0.17	0.17	0.17	1.44	ppb
Molybdenum	95-1	0.17	0.16	0.17	0.17	3.83	ppb
Molybdenum	96-1	0.17	0.16	0.18	0.17	4.58	ppb
Molybdenum	97-1	0.17	0.15	0.16	0.16	6.46	ppb
Molybdenum	98-1	0.16	0.15	0.16	0.16	2.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.56	0.53	0.64	0.57	9.52	ppb
Phosphorus	31-2	50.48	43.08	36.70	43.42	15.89	ppb
Potassium	39-2	3924.97	3872.60	3939.09	3912.22	0.90	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				96		%
Selenium	82-1	-0.05	0.39	0.04	0.13	179.99	ppb
Selenium	77-2	0.00	0.82	0.84	0.55	86.61	ppb
Selenium	78-2	0.37	0.10	0.12	0.20	75.03	ppb
Silicon	28-1	7062.09	6902.05	6979.34	6981.16	1.15	ppb
Silver	107-1	0.03	0.04	0.04	0.04	3.26	ppb
Silver	109-1	0.03	0.03	0.04	0.04	1.60	ppb
Sodium	23-2	63493.24	61765.61	62543.22	62600.69	1.38	ppb
Strontium	86-1	6821.32	6741.74	6898.66	6820.57	1.15	ppb
Strontium	88-1	6751.77	6776.05	6691.57	6739.80	0.65	ppb
Sulfur	34-1	12201.18	12005.89	12241.87	12149.65	1.04	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.03	0.03	0.03	0.03	8.09	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	3.44	ppb
Tin	118-1	0.27	0.27	0.27	0.27	0.75	ppb
Titanium	47-1	1.13	1.16	1.20	1.16	2.82	ppb
Uranium	238-1	0.37	0.38	0.38	0.38	2.11	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.26	0.26	0.25	0.26	3.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	1.31	1.36	1.38	1.35	2.53	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	11.14	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	12.88	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	15.36	14.75	18.08	16.06	11.04	ppb
Antimony	121-1	0.13	0.14	0.13	0.13	4.09	ppb
Arsenic	75-2	1.20	1.33	1.37	1.30	6.82	ppb
Barium	135-1	5.93	5.88	6.20	6.00	2.83	ppb
Barium	137-1	5.86	5.98	6.20	6.01	2.91	ppb
Beryllium	9-1	0.05	0.04	0.04	0.04	8.38	ppb
Bismuth	209-1				98		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.03	0.07	0.05	46.84	ppb
Cadmium	106-1	0.03	0.54	-0.40	0.06	826.34	ppb
Cadmium	111-1	0.01	0.04	-0.03	0.01	387.33	ppb
Calcium	43-1	52251.84	53176.66	53618.95	53015.82	1.32	ppb
Calcium	44-1	51727.79	52600.14	52952.22	52426.71	1.20	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.40	0.38	0.40	0.39	2.60	ppb
Cobalt	59-2	0.11	0.11	0.12	0.11	1.67	ppb
Copper	63-2	0.44	0.44	0.45	0.44	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				101		%
Holmium	165-2				95		%
Indium	115-1				100		%
Indium	115-2				90		%
Iron	54-2	98.33	101.50	105.40	101.74	3.48	ppb
Iron	56-2	99.21	98.27	101.77	99.75	1.81	ppb
Iron	57-2	97.70	104.36	101.48	101.18	3.30	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.07	0.07	7.76	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.06	0.07	0.06	2.02	ppb
Lead	208-1	0.06	0.06	0.06	0.06	2.67	ppb
Lithium	6-1				97		%
Magnesium	24-2	17298.95	17325.22	17683.36	17435.84	1.23	ppb
Manganese	55-2	54.09	54.14	56.07	54.77	2.06	ppb
Molybdenum	94-1	0.13	0.15	0.14	0.14	7.92	ppb
Molybdenum	95-1	0.14	0.12	0.13	0.13	9.37	ppb
Molybdenum	96-1	0.13	0.12	0.12	0.13	5.99	ppb
Molybdenum	97-1	0.13	0.13	0.13	0.13	2.92	ppb
Molybdenum	98-1	0.13	0.14	0.13	0.13	1.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.44	0.46	0.47	0.46	3.32	ppb
Phosphorus	31-2	16.54	24.37	38.72	26.54	42.38	ppb
Potassium	39-2	3486.61	3493.36	3589.09	3523.02	1.63	ppb
Rhodium	103-1				97		%
Rhodium	103-2				94		%
Scandium	45-1				101		%
Scandium	45-2				95		%
Selenium	82-1	0.20	0.07	0.26	0.18	56.20	ppb
Selenium	77-2	0.85	0.87	0.86	0.86	1.15	ppb
Selenium	78-2	-0.35	-0.09	-0.35	-0.26		ppb
Silicon	28-1	6368.69	6470.52	6403.36	6414.19	0.81	ppb
Silver	107-1	0.01	0.01	0.01	0.01	9.61	ppb
Silver	109-1	0.01	0.01	0.02	0.02	19.21	ppb
Sodium	23-2	57349.63	56145.80	58104.39	57199.94	1.73	ppb
Strontium	86-1	5908.86	6053.09	6207.48	6056.48	2.47	ppb
Strontium	88-1	6221.41	6234.71	6359.57	6271.90	1.22	ppb
Sulfur	34-1	11392.25	11049.92	12019.89	11487.35	4.28	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.03	0.03	0.02	0.03	21.46	ppb
Thallium	205-1	0.03	0.02	0.02	0.02	5.73	ppb
Tin	118-1	0.13	0.11	0.10	0.11	14.96	ppb
Titanium	47-1	1.09	1.06	0.97	1.04	6.01	ppb
Uranium	238-1	0.34	0.34	0.34	0.34	1.13	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.23	0.26	0.22	0.24	9.33	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				93		%
Zinc	66-2	0.82	0.98	0.72	0.84	15.87	ppb
Zirconium	90-1	0.01	0.02	0.02	0.02	18.75	ppb
Zirconium	91-1	0.01	0.02	0.02	0.01	38.29	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	158.04	151.67	164.18	157.96	3.96	ppb
Antimony	121-1	0.27	0.29	0.28	0.28	4.10	ppb
Arsenic	75-2	6.51	6.57	6.46	6.51	0.91	ppb
Barium	135-1	8.53	8.47	8.52	8.51	0.39	ppb
Barium	137-1	8.53	8.56	8.60	8.56	0.38	ppb
Beryllium	9-1	0.03	0.05	0.05	0.04	19.58	ppb
Bismuth	209-1				100		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.13	0.00	0.07	101.13	ppb
Cadmium	106-1	-0.58	-0.26	-0.02	-0.29		ppb
Cadmium	111-1	-0.02	0.01	0.03	0.00	611.82	ppb
Calcium	43-1	41207.42	41689.42	41735.24	41544.03	0.70	ppb
Calcium	44-1	40585.24	41047.20	41758.40	41130.28	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.26	1.22	1.30	1.26	3.38	ppb
Cobalt	59-2	0.42	0.42	0.43	0.42	2.03	ppb
Copper	63-2	1.33	1.32	1.38	1.34	2.22	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				101		%
Holmium	165-2				95		%
Indium	115-1				99		%
Indium	115-2				90		%
Iron	54-2	4026.00	4005.22	4113.02	4048.08	1.41	ppb
Iron	56-2	4176.19	4156.40	4186.22	4172.94	0.36	ppb
Iron	57-2	3990.38	3962.58	4035.96	3996.31	0.93	ppb
Krypton	83-1						cps
Lead	206-1	0.53	0.52	0.53	0.53	1.63	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.53	0.49	0.49	0.50	4.42	ppb
Lead	208-1	0.52	0.50	0.51	0.51	1.53	ppb
Lithium	6-1				96		%
Magnesium	24-2	18148.71	17636.60	18149.48	17978.26	1.65	ppb
Manganese	55-2	506.27	505.09	516.56	509.31	1.24	ppb
Molybdenum	94-1	0.26	0.28	0.27	0.27	2.33	ppb
Molybdenum	95-1	0.23	0.23	0.20	0.22	7.90	ppb
Molybdenum	96-1	0.23	0.22	0.22	0.22	1.47	ppb
Molybdenum	97-1	0.21	0.21	0.21	0.21	1.74	ppb
Molybdenum	98-1	0.22	0.22	0.22	0.22	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.04	1.06	1.10	1.07	3.05	ppb
Phosphorus	31-2	152.25	154.74	153.58	153.52	0.81	ppb
Potassium	39-2	2618.79	2628.28	2690.31	2645.80	1.47	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				99		%
Scandium	45-2				93		%
Selenium	82-1	0.28	0.25	-0.07	0.15	127.68	ppb
Selenium	77-2	0.00	2.56	1.74	1.43	91.26	ppb
Selenium	78-2	-0.10	0.39	-0.34	-0.02		ppb
Silicon	28-1	6722.28	6682.25	6710.79	6705.10	0.31	ppb
Silver	107-1	0.03	0.04	0.04	0.04	8.60	ppb
Silver	109-1	0.04	0.04	0.04	0.04	4.47	ppb
Sodium	23-2	19527.10	19614.00	19722.72	19621.27	0.50	ppb
Strontium	86-1	4131.14	4208.26	4124.96	4154.79	1.12	ppb
Strontium	88-1	4325.60	4396.81	4248.55	4323.65	1.72	ppb
Sulfur	34-1	9587.74	10191.48	9988.49	9922.57	3.10	ppb
Terbium	159-1				101		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.02	0.02	0.02	7.17	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.33	ppb
Tin	118-1	0.25	0.28	0.26	0.26	5.62	ppb
Titanium	47-1	7.23	7.13	7.21	7.19	0.77	ppb
Uranium	238-1	0.24	0.24	0.24	0.24	0.99	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.51	0.51	0.51	0.51	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				93		%
Zinc	66-2	5.04	5.01	4.91	4.99	1.34	ppb
Zirconium	90-1	0.05	0.06	0.05	0.05	7.61	ppb
Zirconium	91-1	0.05	0.04	0.05	0.05	7.83	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1437.17	1717.20	1471.94	1542.10	9.90	ppb
Antimony	121-1	0.09	0.09	0.09	0.09	2.80	ppb
Arsenic	75-2	2.23	2.97	2.99	2.73	15.86	ppb
Barium	135-1	20.06	20.39	20.20	20.22	0.81	ppb
Barium	137-1	20.27	20.57	20.37	20.40	0.76	ppb
Beryllium	9-1	0.09	0.09	0.10	0.09	2.75	ppb
Bismuth	209-1				99		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.05	0.06	0.08	45.17	ppb
Cadmium	106-1	-0.52	-0.47	-0.49	-0.49		ppb
Cadmium	111-1	0.00	0.01	0.01	0.01	72.24	ppb
Calcium	43-1	11213.22	11215.20	11470.00	11299.47	1.31	ppb
Calcium	44-1	11727.14	11722.08	11659.46	11702.90	0.32	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.80	3.43	2.79	3.01	12.22	ppb
Cobalt	59-2	0.85	0.95	0.84	0.88	7.27	ppb
Copper	63-2	1.97	2.41	2.00	2.13	11.53	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				100		%
Holmium	165-2				92		%
Indium	115-1				99		%
Indium	115-2				86		%
Iron	54-2	2306.70	2727.99	2340.00	2458.23	9.53	ppb
Iron	56-2	2347.82	2821.15	2405.76	2524.91	10.23	ppb
Iron	57-2	2292.35	2694.95	2335.59	2440.96	9.05	ppb
Krypton	83-1						cps
Lead	206-1	4.99	5.04	5.08	5.03	0.89	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.86	4.94	5.01	4.94	1.50	ppb
Lead	208-1	4.96	4.99	5.03	4.99	0.73	ppb
Lithium	6-1				96		%
Magnesium	24-2	2729.35	3236.95	2785.54	2917.28	9.54	ppb
Manganese	55-2	418.08	500.50	425.09	447.89	10.20	ppb
Molybdenum	94-1	0.28	0.28	0.30	0.29	4.74	ppb
Molybdenum	95-1	0.16	0.19	0.17	0.18	9.66	ppb
Molybdenum	96-1	0.19	0.19	0.20	0.19	2.86	ppb
Molybdenum	97-1	0.16	0.19	0.19	0.18	7.57	ppb
Molybdenum	98-1	0.19	0.18	0.19	0.19	2.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.03	2.63	2.12	2.26	14.28	ppb
Phosphorus	31-2	95.50	156.54	121.86	124.63	24.56	ppb
Potassium	39-2	2439.93	2935.43	2502.42	2625.93	10.28	ppb
Rhodium	103-1				98		%
Rhodium	103-2				92		%
Scandium	45-1				98		%
Scandium	45-2				90		%
Selenium	82-1	-0.21	0.27	0.39	0.15	211.23	ppb
Selenium	77-2	0.84	3.02	1.71	1.86	59.17	ppb
Selenium	78-2	-0.12	-0.26	1.12	0.25	308.79	ppb
Silicon	28-1	4213.76	4225.31	4262.56	4233.87	0.60	ppb
Silver	107-1	0.01	0.02	0.02	0.01	7.47	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.86	ppb
Sodium	23-2	31012.56	36451.77	31528.36	32997.56	9.10	ppb
Strontium	86-1	1419.79	1459.99	1450.86	1443.55	1.46	ppb
Strontium	88-1	1504.03	1531.33	1540.11	1525.16	1.23	ppb
Sulfur	34-1	4187.69	4276.42	4143.67	4202.59	1.61	ppb
Terbium	159-1				101		%
Terbium	159-2				91		%
Thallium	203-1	0.04	0.04	0.04	0.04	7.95	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	3.88	ppb
Tin	118-1	0.34	0.32	0.35	0.34	4.54	ppb
Titanium	47-1	49.67	50.54	50.75	50.32	1.14	ppb
Uranium	238-1	0.15	0.15	0.14	0.15	2.67	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.73	3.20	2.69	2.88	9.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				89		%
Zinc	66-2	13.11	15.83	12.96	13.97	11.59	ppb
Zirconium	90-1	0.07	0.07	0.08	0.07	7.83	ppb
Zirconium	91-1	0.07	0.07	0.08	0.07	10.46	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1520.83	1446.50	1450.46	1472.60	2.84	ppb
Antimony	121-1	0.08	0.09	0.09	0.09	3.61	ppb
Arsenic	75-2	2.15	2.41	2.55	2.37	8.57	ppb
Barium	135-1	19.99	20.83	20.19	20.34	2.17	ppb
Barium	137-1	20.48	20.86	21.44	20.93	2.31	ppb
Beryllium	9-1	0.10	0.07	0.09	0.09	13.78	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.10	0.13	0.12	12.54	ppb
Cadmium	106-1	-0.42	-0.37	-0.74	-0.51		ppb
Cadmium	111-1	0.01	0.02	-0.01	0.01	181.08	ppb
Calcium	43-1	11184.04	11457.16	11264.93	11302.04	1.24	ppb
Calcium	44-1	11635.95	11816.11	11455.27	11635.78	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.85	2.67	2.79	2.77	3.45	ppb
Cobalt	59-2	0.92	0.84	0.83	0.86	5.76	ppb
Copper	63-2	1.85	1.88	1.91	1.88	1.48	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				102		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				92		%
Iron	54-2	2395.16	2317.98	2341.46	2351.53	1.68	ppb
Iron	56-2	2474.56	2361.57	2398.83	2411.65	2.39	ppb
Iron	57-2	2369.83	2298.19	2306.45	2324.82	1.69	ppb
Krypton	83-1						cps
Lead	206-1	5.11	5.14	5.15	5.13	0.37	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.88	5.03	4.99	4.97	1.59	ppb
Lead	208-1	4.94	5.05	5.03	5.01	1.18	ppb
Lithium	6-1				96		%
Magnesium	24-2	2806.78	2734.79	2736.90	2759.49	1.48	ppb
Manganese	55-2	431.22	417.17	419.88	422.76	1.76	ppb
Molybdenum	94-1	0.33	0.30	0.30	0.31	5.61	ppb
Molybdenum	95-1	0.17	0.18	0.16	0.17	3.85	ppb
Molybdenum	96-1	0.20	0.19	0.20	0.20	4.77	ppb
Molybdenum	97-1	0.19	0.17	0.18	0.18	5.45	ppb
Molybdenum	98-1	0.18	0.17	0.18	0.18	2.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.97	2.13	2.07	2.06	3.88	ppb
Phosphorus	31-2	107.60	103.82	111.73	107.72	3.67	ppb
Potassium	39-2	2486.94	2445.86	2465.83	2466.21	0.83	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	0.23	0.09	0.41	0.25	65.09	ppb
Selenium	77-2	1.74	0.00	0.00	0.58	173.21	ppb
Selenium	78-2	-0.09	-0.84	0.13	-0.27		ppb
Silicon	28-1	4665.48	4473.18	4245.80	4461.49	4.71	ppb
Silver	107-1	0.01	0.01	0.01	0.01	10.71	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.99	ppb
Sodium	23-2	31601.12	31105.95	30517.58	31074.88	1.75	ppb
Strontium	86-1	1458.46	1467.83	1473.92	1466.74	0.53	ppb
Strontium	88-1	1504.62	1527.10	1548.67	1526.80	1.44	ppb
Sulfur	34-1	3819.33	4129.35	3798.07	3915.58	4.74	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	0.04	0.04	0.04	0.04	6.10	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	0.95	ppb
Tin	118-1	0.26	0.29	0.26	0.27	5.10	ppb
Titanium	47-1	50.98	52.42	50.93	51.44	1.64	ppb
Uranium	238-1	0.15	0.15	0.16	0.15	0.40	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.78	2.74	2.74	2.75	0.84	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				94		%
Zinc	66-2	12.84	11.64	12.44	12.31	4.97	ppb
Zirconium	90-1	0.11	0.08	0.13	0.11	25.39	ppb
Zirconium	91-1	0.09	0.08	0.07	0.08	13.07	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	297.42	291.05	304.86	297.78	2.32	ppb
Antimony	121-1	0.02	0.03	0.02	0.02	22.94	ppb
Arsenic	75-2	0.40	0.46	0.59	0.48	20.01	ppb
Barium	135-1	3.98	4.03	4.16	4.06	2.34	ppb
Barium	137-1	3.89	4.08	4.10	4.03	2.86	ppb
Beryllium	9-1	0.02	0.02	0.03	0.02	9.89	ppb
Bismuth	209-1				102		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.05	0.04	0.05	19.83	ppb
Cadmium	106-1	-0.64	-0.29	0.07	-0.28		ppb
Cadmium	111-1	-0.04	-0.01	0.02	-0.01		ppb
Calcium	43-1	2221.37	2262.19	2256.54	2246.70	0.98	ppb
Calcium	44-1	2287.13	2309.98	2377.64	2324.92	2.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.79	1.84	1.94	1.86	4.11	ppb
Cobalt	59-2	0.19	0.20	0.20	0.19	3.68	ppb
Copper	63-2	2.86	2.89	2.81	2.85	1.42	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				102		%
Holmium	165-2				96		%
Indium	115-1				101		%
Indium	115-2				92		%
Iron	54-2	490.31	499.19	517.92	502.47	2.81	ppb
Iron	56-2	491.63	497.40	512.98	500.67	2.21	ppb
Iron	57-2	484.84	487.50	507.34	493.23	2.49	ppb
Krypton	83-1						cps
Lead	206-1	0.95	0.95	0.97	0.95	1.07	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.89	0.94	0.95	0.93	3.19	ppb
Lead	208-1	0.92	0.94	0.94	0.94	1.21	ppb
Lithium	6-1				98		%
Magnesium	24-2	540.61	552.95	569.17	554.24	2.58	ppb
Manganese	55-2	86.83	86.74	88.93	87.50	1.42	ppb
Molybdenum	94-1	0.07	0.05	0.04	0.05	26.74	ppb
Molybdenum	95-1	0.03	0.03	0.04	0.04	8.78	ppb
Molybdenum	96-1	0.04	0.04	0.04	0.04	5.35	ppb
Molybdenum	97-1	0.04	0.03	0.04	0.04	19.69	ppb
Molybdenum	98-1	0.03	0.03	0.04	0.03	15.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.96	0.96	0.99	0.97	1.64	ppb
Phosphorus	31-2	7.79	-4.51	16.96	6.75	159.65	ppb
Potassium	39-2	500.43	506.64	527.69	511.59	2.79	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	0.39	0.02	0.00	0.14	160.52	ppb
Selenium	77-2	0.83	1.69	0.85	1.13	43.44	ppb
Selenium	78-2	-0.12	-0.84	-0.60	-0.52		ppb
Silicon	28-1	814.97	834.14	857.70	835.60	2.56	ppb
Silver	107-1	0.00	0.00	0.00	0.00	80.15	ppb
Silver	109-1	0.00	0.00	0.00	0.00	17.69	ppb
Sodium	23-2	6250.83	6302.43	6575.76	6376.34	2.74	ppb
Strontium	86-1	288.29	290.37	293.81	290.82	0.96	ppb
Strontium	88-1	286.97	291.74	291.76	290.16	0.95	ppb
Sulfur	34-1	417.53	669.84	542.36	543.24	23.22	ppb
Terbium	159-1				102		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.01	0.01	0.01	0.97	ppb
Thallium	205-1	0.01	0.02	0.01	0.01	14.03	ppb
Tin	118-1	-0.02	-0.01	0.01	-0.01		ppb
Titanium	47-1	10.10	10.05	9.93	10.03	0.89	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	1.12	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.57	0.59	0.57	0.58	2.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				95		%
Zinc	66-2	2.73	2.91	3.00	2.88	4.75	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	27.93	ppb
Zirconium	91-1	0.01	0.01	0.02	0.02	19.19	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3447.49	3461.79	3476.57	3461.95	0.42	ppb
Antimony	121-1	110.68	108.56	110.31	109.85	1.03	ppb
Arsenic	75-2	45.58	43.72	43.79	44.36	2.38	ppb
Barium	135-1	2115.27	2135.76	2112.98	2121.34	0.59	ppb
Barium	137-1	2126.11	2136.13	2116.00	2126.08	0.47	ppb
Beryllium	9-1	51.89	50.93	51.39	51.40	0.94	ppb
Bismuth	209-1				100		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	43.84	45.47	44.44	44.58	1.85	ppb
Cadmium	106-1	43.41	42.35	42.79	42.85	1.24	ppb
Cadmium	111-1	51.95	52.88	52.88	52.57	1.02	ppb
Calcium	43-1	11077.53	11178.67	11273.17	11176.46	0.88	ppb
Calcium	44-1	11411.99	11618.35	11519.63	11516.66	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	210.11	210.79	211.12	210.67	0.24	ppb
Cobalt	59-2	558.09	544.92	550.71	551.24	1.20	ppb
Copper	63-2	277.18	277.17	279.83	278.06	0.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				91		%
Iron	54-2	3595.22	3581.79	3626.17	3601.06	0.63	ppb
Iron	56-2	3508.58	3500.31	3543.33	3517.41	0.65	ppb
Iron	57-2	3378.96	3351.28	3401.77	3377.33	0.75	ppb
Krypton	83-1						cps
Lead	206-1	25.30	25.82	25.96	25.69	1.35	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	25.19	25.83	25.84	25.62	1.45	ppb
Lead	208-1	25.24	25.90	26.03	25.72	1.65	ppb
Lithium	6-1				96		%
Magnesium	24-2	2757.77	2773.75	2806.18	2779.23	0.89	ppb
Manganese	55-2	947.18	963.26	990.64	967.03	2.27	ppb
Molybdenum	94-1	0.28	0.32	0.33	0.31	7.74	ppb
Molybdenum	95-1	0.19	0.20	0.20	0.19	4.12	ppb
Molybdenum	96-1	0.20	0.21	0.21	0.21	4.14	ppb
Molybdenum	97-1	0.19	0.19	0.19	0.19	0.46	ppb
Molybdenum	98-1	0.18	0.19	0.18	0.18	3.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	522.19	524.38	532.80	526.46	1.06	ppb
Phosphorus	31-2	110.34	107.53	109.07	108.98	1.29	ppb
Potassium	39-2	2453.95	2490.60	2502.02	2482.19	1.01	ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				94		%
Selenium	82-1	19.89	23.09	20.91	21.30	7.68	ppb
Selenium	77-2	16.05	27.93	18.57	20.85	30.03	ppb
Selenium	78-2	28.57	19.61	18.10	22.09	25.61	ppb
Silicon	28-1	4107.23	4122.14	4175.57	4134.98	0.87	ppb
Silver	107-1	49.30	50.44	50.10	49.95	1.18	ppb
Silver	109-1	49.70	50.24	50.55	50.16	0.86	ppb
Sodium	23-2	31279.25	31352.12	31742.08	31457.82	0.79	ppb
Strontium	86-1	1413.80	1465.77	1466.17	1448.58	2.08	ppb
Strontium	88-1	1484.77	1561.54	1534.15	1526.82	2.55	ppb
Sulfur	34-1	3742.39	3684.49	3697.74	3708.20	0.82	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	50.26	51.01	51.30	50.86	1.05	ppb
Thallium	205-1	54.13	53.43	54.18	53.91	0.78	ppb
Tin	118-1	0.26	0.27	0.27	0.27	2.20	ppb
Titanium	47-1	49.15	49.99	50.34	49.83	1.22	ppb
Uranium	238-1	0.15	0.15	0.15	0.15	0.59	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	537.04	534.38	540.68	537.37	0.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				95		%
Zinc	66-2	539.68	542.86	543.14	541.90	0.35	ppb
Zirconium	90-1	0.09	0.09	0.09	0.09	2.95	ppb
Zirconium	91-1	0.11	0.11	0.11	0.11	2.75	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1012.28	1032.87	1016.89	1020.68	1.06	ppb
Antimony	121-1	0.13	0.14	0.13	0.13	3.51	ppb
Arsenic	75-2	5.68	5.11	5.91	5.57	7.40	ppb
Barium	135-1	42.77	43.06	42.88	42.90	0.34	ppb
Barium	137-1	43.44	43.71	42.64	43.26	1.30	ppb
Beryllium	9-1	0.10	0.10	0.10	0.10	0.77	ppb
Bismuth	209-1				99		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.10	0.09	0.09	0.10	6.98	ppb
Cadmium	106-1	0.47	-0.45	0.82	0.28	235.44	ppb
Cadmium	111-1	0.11	0.06	0.13	0.10	34.53	ppb
Calcium	43-1	15469.10	15483.13	15669.21	15540.48	0.72	ppb
Calcium	44-1	15953.46	15928.63	16068.74	15983.61	0.47	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.92	1.98	1.86	1.92	3.13	ppb
Cobalt	59-2	3.44	3.42	3.28	3.38	2.60	ppb
Copper	63-2	2.28	2.29	2.25	2.28	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				102		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	10706.87	11023.91	10437.47	10722.75	2.74	ppb
Iron	56-2	10786.88	10876.80	10458.43	10707.37	2.06	ppb
Iron	57-2	10201.95	10294.94	10146.81	10214.57	0.73	ppb
Krypton	83-1						cps
Lead	206-1	3.71	3.81	3.83	3.78	1.67	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.62	3.71	3.65	3.66	1.22	ppb
Lead	208-1	3.68	3.74	3.70	3.71	0.76	ppb
Lithium	6-1				96		%
Magnesium	24-2	3418.56	3444.63	3363.15	3408.78	1.22	ppb
Manganese	55-2	2979.79	3011.48	2918.88	2970.05	1.58	ppb
Molybdenum	94-1	0.34	0.35	0.36	0.35	3.63	ppb
Molybdenum	95-1	0.21	0.22	0.19	0.21	5.38	ppb
Molybdenum	96-1	0.23	0.24	0.22	0.23	3.82	ppb
Molybdenum	97-1	0.22	0.24	0.23	0.23	3.10	ppb
Molybdenum	98-1	0.20	0.20	0.21	0.21	2.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.68	2.68	2.56	2.64	2.58	ppb
Phosphorus	31-2	137.73	156.62	164.54	152.96	9.00	ppb
Potassium	39-2	3066.91	3104.93	3042.21	3071.35	1.03	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	0.07	0.27	0.09	0.14	77.06	ppb
Selenium	77-2	1.67	2.56	1.67	1.97	26.15	ppb
Selenium	78-2	-0.12	-0.35	-0.36	-0.28		ppb
Silicon	28-1	4145.78	4214.66	4180.77	4180.40	0.82	ppb
Silver	107-1	0.04	0.03	0.04	0.04	4.91	ppb
Silver	109-1	0.04	0.03	0.03	0.03	14.66	ppb
Sodium	23-2	37856.95	37868.58	36800.02	37508.52	1.64	ppb
Strontium	86-1	2039.13	2055.65	2066.18	2053.65	0.66	ppb
Strontium	88-1	2126.68	2123.87	2119.38	2123.31	0.17	ppb
Sulfur	34-1	4319.44	4340.76	4406.79	4355.66	1.05	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.05	0.05	0.04	0.04	10.40	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	3.81	ppb
Tin	118-1	0.09	0.11	0.08	0.09	12.94	ppb
Titanium	47-1	29.83	29.00	29.69	29.50	1.50	ppb
Uranium	238-1	0.16	0.16	0.16	0.16	2.14	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.87	3.02	3.00	2.96	2.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				95		%
Zinc	66-2	19.13	19.66	19.45	19.41	1.39	ppb
Zirconium	90-1	0.10	0.09	0.10	0.10	3.88	ppb
Zirconium	91-1	0.09	0.10	0.10	0.10	7.75	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.21	3.01	3.13	3.11	3.28	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	3.84	ppb
Arsenic	75-2	-0.02	-0.03	-0.03	-0.03		ppb
Barium	135-1	-0.09	-0.07	-0.08	-0.08		ppb
Barium	137-1	-0.07	-0.08	-0.08	-0.07		ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	18.40	ppb
Bismuth	209-1				100		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.03	0.03	0.05	67.25	ppb
Cadmium	106-1	0.33	0.45	-0.31	0.15	263.43	ppb
Cadmium	111-1	0.02	0.04	-0.02	0.01	202.57	ppb
Calcium	43-1	-11.49	-10.30	-8.77	-10.19		ppb
Calcium	44-1	-10.85	-11.88	-10.65	-11.13		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	7.01	6.41	6.74	6.72	4.49	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	11.21	ppb
Copper	63-2	0.12	0.10	0.12	0.12	9.15	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				102		%
Holmium	165-2				96		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	37.32	35.59	35.49	36.13	2.85	ppb
Iron	56-2	30.94	28.40	29.90	29.75	4.28	ppb
Iron	57-2	32.29	30.65	28.10	30.35	6.96	ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.02	0.02	0.02	45.08	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.00	0.01	0.00	154.82	ppb
Lead	208-1	0.01	0.01	0.01	0.01	27.00	ppb
Lithium	6-1				97		%
Magnesium	24-2	-1.91	-2.56	-1.61	-2.03		ppb
Manganese	55-2	1.31	1.17	1.25	1.24	5.69	ppb
Molybdenum	94-1	0.22	0.19	0.22	0.21	7.77	ppb
Molybdenum	95-1	0.26	0.25	0.24	0.25	3.21	ppb
Molybdenum	96-1	0.24	0.24	0.25	0.25	2.69	ppb
Molybdenum	97-1	0.24	0.23	0.27	0.25	7.69	ppb
Molybdenum	98-1	0.25	0.24	0.24	0.24	1.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.70	0.58	0.66	0.65	8.88	ppb
Phosphorus	31-2	-16.25	-20.37	-23.84	-20.15		ppb
Potassium	39-2	20.17	11.39	14.34	15.30	29.19	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	0.08	0.08	-0.10	0.02	499.94	ppb
Selenium	77-2	0.00	0.83	0.00	0.28	173.21	ppb
Selenium	78-2	-0.35	0.58	-0.12	0.04	1268.77	ppb
Silicon	28-1	2.78	3.56	4.12	3.49	19.18	ppb
Silver	107-1	0.01	0.01	0.01	0.01	37.39	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.97	ppb
Sodium	23-2	83.84	67.99	72.60	74.81	10.90	ppb
Strontium	86-1	2.14	1.93	2.38	2.15	10.41	ppb
Strontium	88-1	2.84	2.82	2.73	2.80	2.03	ppb
Sulfur	34-1	22.11	42.37	103.94	56.14	75.91	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.01	0.01	0.01	33.02	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	37.06	ppb
Tin	118-1	0.17	0.16	0.15	0.16	7.85	ppb
Titanium	47-1	0.08	0.05	0.07	0.07	18.15	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	66.03	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.05	0.05	0.06	0.05	1.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				95		%
Zinc	66-2	0.58	0.31	0.33	0.41	37.78	ppb
Zirconium	90-1	0.00	0.01	0.00	0.00	49.25	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	109.74	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1517.29	1514.70	1504.81	1512.27	0.44	ppb
Antimony	121-1	0.08	0.08	0.09	0.08	6.51	ppb
Arsenic	75-2	2.14	2.41	2.59	2.38	9.55	ppb
Barium	135-1	23.05	23.97	23.80	23.61	2.08	ppb
Barium	137-1	23.39	24.30	24.29	23.99	2.19	ppb
Beryllium	9-1	0.10	0.09	0.09	0.09	9.08	ppb
Bismuth	209-1				100		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.22	0.01	0.10	105.71	ppb
Cadmium	106-1	0.12	0.56	0.15	0.28	90.33	ppb
Cadmium	111-1	0.04	0.07	0.06	0.06	23.43	ppb
Calcium	43-1	11652.27	11690.85	12019.67	11787.60	1.71	ppb
Calcium	44-1	11852.52	11999.36	12348.60	12066.83	2.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.19	3.05	3.20	3.15	2.57	ppb
Cobalt	59-2	0.83	0.81	0.83	0.83	1.74	ppb
Copper	63-2	1.73	1.78	1.70	1.74	2.23	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				102		%
Holmium	165-2				96		%
Indium	115-1				100		%
Indium	115-2				90		%
Iron	54-2	2514.53	2528.36	2518.00	2520.30	0.29	ppb
Iron	56-2	2595.13	2581.20	2633.07	2603.14	1.03	ppb
Iron	57-2	2459.39	2470.31	2502.07	2477.26	0.90	ppb
Krypton	83-1						cps
Lead	206-1	3.85	3.99	3.95	3.93	1.76	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.74	3.87	3.77	3.79	1.71	ppb
Lead	208-1	3.77	3.91	3.86	3.85	1.89	ppb
Lithium	6-1				97		%
Magnesium	24-2	2891.66	2894.73	2925.09	2903.83	0.64	ppb
Manganese	55-2	309.45	309.78	310.58	309.94	0.19	ppb
Molybdenum	94-1	0.30	0.28	0.30	0.29	3.89	ppb
Molybdenum	95-1	0.16	0.19	0.17	0.17	6.83	ppb
Molybdenum	96-1	0.18	0.19	0.19	0.19	2.60	ppb
Molybdenum	97-1	0.17	0.17	0.19	0.17	5.52	ppb
Molybdenum	98-1	0.16	0.17	0.16	0.16	3.19	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.40	2.41	2.47	2.42	1.56	ppb
Phosphorus	31-2	101.75	104.79	95.43	100.66	4.74	ppb
Potassium	39-2	2488.00	2514.50	2507.72	2503.41	0.55	ppb
Rhodium	103-1				98		%
Rhodium	103-2				95		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	-0.10	0.21	0.04	0.05	293.28	ppb
Selenium	77-2	0.00	2.56	0.85	1.14	114.63	ppb
Selenium	78-2	-0.84	0.14	0.14	-0.19		ppb
Silicon	28-1	4155.75	4107.44	4168.28	4143.83	0.78	ppb
Silver	107-1	0.02	0.02	0.02	0.02	3.01	ppb
Silver	109-1	0.02	0.02	0.02	0.02	4.19	ppb
Sodium	23-2	31303.61	31348.76	31635.23	31429.20	0.57	ppb
Strontium	86-1	1536.45	1540.57	1547.27	1541.43	0.35	ppb
Strontium	88-1	1609.37	1610.63	1643.59	1621.20	1.20	ppb
Sulfur	34-1	4220.97	3990.47	4276.29	4162.58	3.64	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.04	0.04	0.04	0.04	2.31	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	2.98	ppb
Tin	118-1	0.10	0.11	0.12	0.11	7.84	ppb
Titanium	47-1	62.49	63.39	64.06	63.31	1.25	ppb
Uranium	238-1	0.20	0.21	0.20	0.21	1.47	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.74	2.74	2.75	2.75	0.23	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				94		%
Zinc	66-2	8.40	8.46	8.15	8.34	1.97	ppb
Zirconium	90-1	0.08	0.08	0.09	0.08	2.37	ppb
Zirconium	91-1	0.08	0.07	0.09	0.08	16.55	ppb

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	161.18	158.66	154.59	158.14	2.10	ppb
Antimony	121-1	0.07	0.08	0.08	0.08	7.71	ppb
Arsenic	75-2	4.41	3.96	4.33	4.24	5.67	ppb
Barium	135-1	16.86	17.08	17.16	17.03	0.90	ppb
Barium	137-1	17.25	17.30	17.24	17.26	0.19	ppb
Beryllium	9-1	0.02	0.02	0.03	0.03	20.54	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.06	0.13	0.09	40.23	ppb
Cadmium	106-1	-0.03	-0.30	-0.56	-0.30		ppb
Cadmium	111-1	0.01	-0.01	-0.03	-0.01		ppb
Calcium	43-1	31304.14	30608.73	31334.98	31082.62	1.32	ppb
Calcium	44-1	30751.39	30534.31	30734.73	30673.48	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.92	0.87	0.88	0.89	2.80	ppb
Cobalt	59-2	2.09	2.01	2.07	2.06	1.87	ppb
Copper	63-2	0.58	0.51	0.52	0.54	6.41	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				100		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				89		%
Iron	54-2	5159.63	5093.52	5080.63	5111.26	0.83	ppb
Iron	56-2	5327.71	5239.69	5224.76	5264.05	1.06	ppb
Iron	57-2	5066.80	5014.52	4989.86	5023.73	0.78	ppb
Krypton	83-1						cps
Lead	206-1	0.40	0.43	0.40	0.41	4.97	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.40	0.38	0.38	0.39	2.77	ppb
Lead	208-1	0.39	0.40	0.39	0.40	1.30	ppb
Lithium	6-1				96		%
Magnesium	24-2	10037.61	9759.66	9765.43	9854.23	1.61	ppb
Manganese	55-2	876.25	857.01	851.23	861.50	1.52	ppb
Molybdenum	94-1	0.25	0.24	0.26	0.25	5.01	ppb
Molybdenum	95-1	0.20	0.21	0.19	0.20	4.67	ppb
Molybdenum	96-1	0.18	0.21	0.20	0.19	6.78	ppb
Molybdenum	97-1	0.19	0.19	0.22	0.20	9.09	ppb
Molybdenum	98-1	0.20	0.19	0.21	0.20	4.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.37	3.38	3.39	3.38	0.39	ppb
Phosphorus	31-2	190.00	195.28	146.25	177.18	15.19	ppb
Potassium	39-2	3538.80	3503.19	3456.87	3499.62	1.17	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				98		%
Scandium	45-2				93		%
Selenium	82-1	0.23	0.16	0.26	0.22	24.76	ppb
Selenium	77-2	0.87	1.76	0.87	1.16	43.99	ppb
Selenium	78-2	-0.34	0.17	-0.34	-0.17		ppb
Silicon	28-1	5971.02	5896.71	6002.20	5956.65	0.91	ppb
Silver	107-1	0.01	0.01	0.01	0.01	4.61	ppb
Silver	109-1	0.01	0.01	0.00	0.01	13.60	ppb
Sodium	23-2	23377.00	22560.79	22782.91	22906.90	1.84	ppb
Strontium	86-1	2909.24	2994.70	3007.67	2970.53	1.80	ppb
Strontium	88-1	3057.65	3100.50	3105.42	3087.86	0.85	ppb
Sulfur	34-1	7984.69	7532.05	7921.10	7812.61	3.14	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	0.01	0.01	0.01	0.01	26.25	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.87	ppb
Tin	118-1	0.01	0.00	0.01	0.01	69.90	ppb
Titanium	47-1	6.67	6.80	6.74	6.74	0.96	ppb
Uranium	238-1	0.18	0.18	0.19	0.18	2.13	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.63	0.66	0.58	0.62	6.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				92		%
Zinc	66-2	2.40	2.41	2.46	2.42	1.22	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	1.72	ppb
Zirconium	91-1	0.04	0.04	0.04	0.04	3.84	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	637.52	628.83	633.89	633.41	0.69	ppb
Antimony	121-1	0.08	0.07	0.07	0.07	5.86	ppb
Arsenic	75-2	3.46	2.83	2.94	3.08	10.91	ppb
Barium	135-1	20.71	20.54	20.64	20.63	0.43	ppb
Barium	137-1	20.85	20.76	20.90	20.84	0.33	ppb
Beryllium	9-1	0.04	0.05	0.05	0.05	6.63	ppb
Bismuth	209-1				97		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.06	0.17	0.09	71.94	ppb
Cadmium	106-1	-0.71	-0.31	-0.39	-0.47		ppb
Cadmium	111-1	-0.03	0.00	-0.01	-0.01		ppb
Calcium	43-1	14524.24	14309.92	14732.76	14522.31	1.46	ppb
Calcium	44-1	15087.20	14734.76	15240.69	15020.88	1.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.83	2.73	2.80	2.79	1.74	ppb
Cobalt	59-2	1.23	1.22	1.28	1.24	2.66	ppb
Copper	63-2	2.47	2.48	2.59	2.51	2.57	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				95		%
Indium	115-1				97		%
Indium	115-2				89		%
Iron	54-2	2749.16	2722.06	2765.32	2745.51	0.80	ppb
Iron	56-2	2855.63	2769.80	2837.78	2821.07	1.61	ppb
Iron	57-2	2733.12	2701.06	2699.39	2711.19	0.70	ppb
Krypton	83-1						cps
Lead	206-1	1.71	1.73	1.77	1.74	1.79	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.67	1.67	1.70	1.68	1.02	ppb
Lead	208-1	1.69	1.69	1.71	1.69	0.72	ppb
Lithium	6-1				96		%
Magnesium	24-2	3644.09	3602.19	3677.88	3641.39	1.04	ppb
Manganese	55-2	1059.89	1049.72	1051.17	1053.59	0.52	ppb
Molybdenum	94-1	0.31	0.27	0.29	0.29	5.95	ppb
Molybdenum	95-1	0.23	0.23	0.24	0.23	2.21	ppb
Molybdenum	96-1	0.23	0.23	0.23	0.23	0.91	ppb
Molybdenum	97-1	0.22	0.23	0.24	0.23	2.43	ppb
Molybdenum	98-1	0.23	0.23	0.24	0.23	1.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.53	2.44	2.43	2.47	2.27	ppb
Phosphorus	31-2	100.13	74.16	67.73	80.67	21.26	ppb
Potassium	39-2	2912.55	2869.21	2904.66	2895.47	0.80	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				97		%
Scandium	45-2				93		%
Selenium	82-1	0.25	-0.10	-0.20	-0.02		ppb
Selenium	77-2	0.00	0.87	0.00	0.29	173.21	ppb
Selenium	78-2	-0.59	-0.34	0.15	-0.26		ppb
Silicon	28-1	4091.22	4078.42	4104.67	4091.43	0.32	ppb
Silver	107-1	0.01	0.01	0.01	0.01	12.09	ppb
Silver	109-1	0.01	0.01	0.01	0.01	13.78	ppb
Sodium	23-2	34184.42	33801.83	34057.63	34014.63	0.57	ppb
Strontium	86-1	1659.01	1644.55	1645.80	1649.79	0.49	ppb
Strontium	88-1	1736.04	1733.53	1730.79	1733.45	0.15	ppb
Sulfur	34-1	4639.57	4333.80	4509.15	4494.17	3.41	ppb
Terbium	159-1				100		%
Terbium	159-2				94		%
Thallium	203-1	0.02	0.02	0.02	0.02	10.54	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	5.74	ppb
Tin	118-1	0.13	0.14	0.13	0.13	1.83	ppb
Titanium	47-1	26.67	26.17	26.97	26.61	1.52	ppb
Uranium	238-1	0.12	0.12	0.12	0.12	0.11	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.43	1.40	1.35	1.40	2.85	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	8.68	8.42	8.65	8.58	1.64	ppb
Zirconium	90-1	0.05	0.06	0.06	0.06	2.84	ppb
Zirconium	91-1	0.04	0.07	0.06	0.06	25.58	ppb

Reviewed By:kareem
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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	95.77	102.19	100.11	99.36	3.30	ppb
Antimony	121-1	0.05	0.06	0.05	0.05	5.38	ppb
Arsenic	75-2	1.03	0.87	1.23	1.04	17.15	ppb
Barium	135-1	12.95	12.95	13.20	13.04	1.09	ppb
Barium	137-1	13.09	12.95	13.44	13.16	1.91	ppb
Beryllium	9-1	0.02	0.02	0.02	0.02	13.79	ppb
Bismuth	209-1				100		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.02	0.02	0.03	50.65	ppb
Cadmium	106-1	-0.21	-0.46	-1.01	-0.56		ppb
Cadmium	111-1	-0.02	-0.03	-0.07	-0.04		ppb
Calcium	43-1	11541.81	11645.72	11677.86	11621.80	0.61	ppb
Calcium	44-1	11800.45	11953.63	11976.46	11910.18	0.80	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.39	0.40	0.43	0.41	5.63	ppb
Cobalt	59-2	0.23	0.23	0.26	0.24	7.21	ppb
Copper	63-2	0.45	0.51	0.53	0.49	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				103		%
Holmium	165-2				96		%
Indium	115-1				99		%
Indium	115-2				91		%
Iron	54-2	807.97	839.44	850.04	832.48	2.63	ppb
Iron	56-2	858.70	873.69	890.34	874.25	1.81	ppb
Iron	57-2	800.36	830.06	833.97	821.46	2.24	ppb
Krypton	83-1						cps
Lead	206-1	0.33	0.29	0.31	0.31	6.14	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.26	0.26	0.30	0.27	7.96	ppb
Lead	208-1	0.29	0.28	0.29	0.29	2.50	ppb
Lithium	6-1				96		%
Magnesium	24-2	2627.83	2692.27	2730.74	2683.61	1.94	ppb
Manganese	55-2	183.05	188.74	193.68	188.49	2.82	ppb
Molybdenum	94-1	0.10	0.09	0.09	0.09	6.21	ppb
Molybdenum	95-1	0.07	0.07	0.07	0.07	3.52	ppb
Molybdenum	96-1	0.07	0.06	0.07	0.07	3.21	ppb
Molybdenum	97-1	0.08	0.08	0.07	0.08	12.61	ppb
Molybdenum	98-1	0.08	0.06	0.07	0.07	10.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.68	0.79	0.61	0.69	13.67	ppb
Phosphorus	31-2	-8.01	0.43	-2.90	-3.49		ppb
Potassium	39-2	2276.56	2331.29	2372.09	2326.65	2.06	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				95		%
Selenium	82-1	0.30	0.16	0.05	0.17	70.67	ppb
Selenium	77-2	0.82	0.00	0.86	0.56	86.65	ppb
Selenium	78-2	-0.37	-0.35	-0.35	-0.36		ppb
Silicon	28-1	2973.51	2894.47	2924.78	2930.92	1.36	ppb
Silver	107-1	0.00	0.00	0.00	0.00	4.91	ppb
Silver	109-1	0.00	0.00	0.00	0.00	29.72	ppb
Sodium	23-2	30061.40	31165.05	31621.65	30949.37	2.59	ppb
Strontium	86-1	1521.45	1480.26	1503.96	1501.89	1.38	ppb
Strontium	88-1	1578.79	1554.47	1580.21	1571.15	0.92	ppb
Sulfur	34-1	4012.73	3703.01	3694.19	3803.31	4.77	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.01	0.00	0.01	23.98	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	10.32	ppb
Tin	118-1	0.23	0.23	0.23	0.23	1.84	ppb
Titanium	47-1	3.46	3.75	3.66	3.62	4.11	ppb
Uranium	238-1	0.04	0.04	0.03	0.04	1.74	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.25	0.28	0.24	0.26	7.26	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	2.10	2.21	2.15	2.15	2.46	ppb
Zirconium	90-1	0.02	0.01	0.02	0.01	15.75	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	23.86	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	652.34	664.11	636.60	651.01	2.12	ppb
Antimony	121-1	298.11	297.87	297.71	297.90	0.07	ppb
Arsenic	75-2	321.77	331.42	321.85	325.01	1.71	ppb
Barium	135-1	630.49	622.35	635.63	629.49	1.06	ppb
Barium	137-1	625.84	619.71	627.60	624.38	0.66	ppb
Beryllium	9-1	69.66	73.16	70.26	71.03	2.63	ppb
Bismuth	209-1				103		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	284.45	286.82	289.29	286.85	0.84	ppb
Cadmium	106-1	275.42	277.07	276.39	276.29	0.30	ppb
Cadmium	111-1	334.58	337.41	342.05	338.01	1.12	ppb
Calcium	43-1	-4.79	-0.95	-0.51	-2.08		ppb
Calcium	44-1	-11.70	-11.95	-12.15	-11.93		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	151.41	154.87	147.45	151.24	2.45	ppb
Cobalt	59-2	126.49	128.41	123.91	126.27	1.79	ppb
Copper	63-2	466.25	474.19	457.59	466.01	1.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				96		%
Indium	115-1				101		%
Indium	115-2				91		%
Iron	54-2	1151.07	1169.54	1137.33	1152.65	1.40	ppb
Iron	56-2	1073.14	1099.90	1045.68	1072.91	2.53	ppb
Iron	57-2	1018.16	1040.52	994.68	1017.79	2.25	ppb
Krypton	83-1						cps
Lead	206-1	368.79	381.07	375.32	375.06	1.64	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	354.27	359.27	360.69	358.08	0.94	ppb
Lead	208-1	360.87	363.19	365.17	363.08	0.59	ppb
Lithium	6-1				97		%
Magnesium	24-2	-0.78	-2.92	-2.03	-1.91		ppb
Manganese	55-2	376.49	386.57	367.01	376.69	2.60	ppb
Molybdenum	94-1	190.17	192.23	190.08	190.83	0.64	ppb
Molybdenum	95-1	239.13	241.76	239.15	240.01	0.63	ppb
Molybdenum	96-1	237.77	240.31	230.93	236.34	2.05	ppb
Molybdenum	97-1	234.75	237.01	231.44	234.40	1.19	ppb
Molybdenum	98-1	245.10	244.53	236.53	242.05	1.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	268.95	273.72	262.21	268.29	2.16	ppb
Phosphorus	31-2	-21.13	-26.83	-40.15	-29.37		ppb
Potassium	39-2	0.66	0.26	-1.25	-0.11		ppb
Rhodium	103-1				101		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				94		%
Selenium	82-1	123.97	123.56	126.67	124.74	1.35	ppb
Selenium	77-2	128.12	131.67	126.81	128.87	1.95	ppb
Selenium	78-2	124.73	122.40	121.83	122.99	1.25	ppb
Silicon	28-1	-0.81	-0.52	-0.94	-0.76		ppb
Silver	107-1	383.12	379.75	392.86	385.24	1.77	ppb
Silver	109-1	385.08	378.01	391.73	384.94	1.78	ppb
Sodium	23-2	41.79	47.76	36.11	41.89	13.91	ppb
Strontium	86-1	730.79	741.27	732.71	734.92	0.76	ppb
Strontium	88-1	761.34	774.36	771.69	769.13	0.89	ppb
Sulfur	34-1	-288.90	-241.32	-408.52	-312.91		ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	361.75	368.64	366.73	365.71	0.97	ppb
Thallium	205-1	360.54	370.00	368.06	366.20	1.36	ppb
Tin	118-1	-0.02	-0.03	-0.01	-0.02		ppb
Titanium	47-1	0.15	0.16	0.21	0.17	17.79	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	852.49	871.45	819.48	847.81	3.10	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				93		%
Zinc	66-2	514.30	525.48	501.34	513.71	2.35	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	458.61	ppb
Zirconium	91-1	0.16	0.16	0.15	0.16	5.70	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1771.86	1780.01	1795.84	1782.57	0.68	ppb
Antimony	121-1	419.58	419.93	420.69	420.06	0.14	ppb
Arsenic	75-2	163.00	167.60	166.61	165.73	1.46	ppb
Barium	135-1	290.48	292.42	291.59	291.50	0.33	ppb
Barium	137-1	306.84	305.89	304.81	305.84	0.33	ppb
Beryllium	9-1	73.66	73.89	75.37	74.31	1.25	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	124.61	123.26	125.48	124.45	0.90	ppb
Cadmium	106-1	114.40	118.91	116.69	116.66	1.94	ppb
Cadmium	111-1	143.19	143.18	144.07	143.48	0.36	ppb
Calcium	43-1	-4.67	-2.99	-1.05	-2.90		ppb
Calcium	44-1	-14.74	-14.26	-14.03	-14.34		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	181.26	181.63	180.16	181.02	0.42	ppb
Cobalt	59-2	419.43	419.42	418.46	419.10	0.13	ppb
Copper	63-2	122.51	120.90	122.90	122.10	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				103		%
Holmium	165-2				97		%
Indium	115-1				101		%
Indium	115-2				91		%
Iron	54-2	1654.03	1645.71	1661.86	1653.87	0.49	ppb
Iron	56-2	1548.06	1559.42	1563.61	1557.03	0.52	ppb
Iron	57-2	1472.39	1481.91	1493.62	1482.64	0.72	ppb
Krypton	83-1						cps
Lead	206-1	481.16	482.35	493.20	485.57	1.37	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	462.79	467.28	474.60	468.22	1.27	ppb
Lead	208-1	467.73	473.06	476.47	472.42	0.93	ppb
Lithium	6-1				98		%
Magnesium	24-2	-1.74	-1.70	-1.84	-1.76		ppb
Manganese	55-2	323.13	319.99	322.24	321.79	0.50	ppb
Molybdenum	94-1	231.44	241.00	244.79	239.08	2.88	ppb
Molybdenum	95-1	286.32	296.11	299.78	294.07	2.37	ppb
Molybdenum	96-1	282.25	295.14	289.10	288.83	2.23	ppb
Molybdenum	97-1	286.06	298.36	291.73	292.05	2.11	ppb
Molybdenum	98-1	281.14	290.99	297.69	289.94	2.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	954.69	970.36	967.41	964.15	0.86	ppb
Phosphorus	31-2	-31.69	-38.96	-36.69	-35.78		ppb
Potassium	39-2	3.23	2.33	2.85	2.80	16.21	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				94		%
Selenium	82-1	334.38	351.35	349.95	345.23	2.73	ppb
Selenium	77-2	379.44	338.41	382.60	366.81	6.72	ppb
Selenium	78-2	341.33	350.39	346.17	345.96	1.31	ppb
Silicon	28-1	-1.97	-2.02	-1.52	-1.83		ppb
Silver	107-1	504.05	505.38	500.09	503.18	0.55	ppb
Silver	109-1	499.99	498.27	500.86	499.71	0.26	ppb
Sodium	23-2	38.08	40.92	42.73	40.58	5.78	ppb
Strontium	86-1	898.15	936.46	954.70	929.77	3.10	ppb
Strontium	88-1	956.28	1001.85	985.31	981.15	2.35	ppb
Sulfur	34-1	-574.35	-675.89	-491.80	-580.68		ppb
Terbium	159-1				102		%
Terbium	159-2				96		%
Thallium	203-1	86.89	85.79	89.98	87.55	2.48	ppb
Thallium	205-1	89.74	88.73	89.62	89.36	0.62	ppb
Tin	118-1	0.00	-0.02	0.00	-0.01		ppb
Titanium	47-1	0.18	0.18	0.19	0.18	1.24	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	200.03	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	41.54	41.52	42.02	41.69	0.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				93		%
Zinc	66-2	635.26	631.58	640.14	635.66	0.68	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	505.81	ppb
Zirconium	91-1	0.07	0.07	0.08	0.07	2.37	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	52617.55	52589.56	52418.68	52541.93	0.20	ppb
Antimony	121-1	493.30	506.55	491.94	497.26	1.62	ppb
Arsenic	75-2	497.55	515.59	496.45	503.20	2.14	ppb
Barium	135-1	2530.27	2537.12	2501.74	2523.05	0.74	ppb
Barium	137-1	2561.75	2519.91	2483.65	2521.77	1.55	ppb
Beryllium	9-1	503.49	505.85	513.09	507.48	0.99	ppb
Bismuth	209-1				88		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	498.72	504.44	500.92	501.36	0.58	ppb
Cadmium	106-1	498.00	502.34	498.33	499.56	0.48	ppb
Cadmium	111-1	495.91	496.18	486.05	492.72	1.17	ppb
Calcium	43-1	252546.53	254246.56	257229.44	254674.18	0.93	ppb
Calcium	44-1	257029.01	254660.09	256774.12	256154.41	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	500.79	505.21	509.19	505.07	0.83	ppb
Cobalt	59-2	495.21	498.89	497.98	497.36	0.39	ppb
Copper	63-2	4829.01	4864.22	4780.57	4824.60	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				98		%
Holmium	165-2				93		%
Indium	115-1				91		%
Indium	115-2				83		%
Iron	54-2	127582.02	129672.16	129994.68	129082.95	1.01	ppb
Iron	56-2	128832.23	130166.36	128692.23	129230.28	0.63	ppb
Iron	57-2	126746.20	129459.68	125842.96	127349.61	1.48	ppb
Krypton	83-1						cps
Lead	206-1	2558.29	2559.16	2538.17	2551.87	0.47	ppb

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2563.96	2525.21	2573.31	2554.16	1.00	ppb
Lead	208-1	2564.19	2541.18	2568.56	2557.97	0.58	ppb
Lithium	6-1				89		%
Magnesium	24-2	261086.13	257562.64	256939.34	258529.37	0.86	ppb
Manganese	55-2	4891.64	5005.87	4958.89	4952.13	1.16	ppb
Molybdenum	94-1	5037.98	5077.61	4999.14	5038.24	0.78	ppb
Molybdenum	95-1	5004.52	5109.66	5047.80	5054.00	1.05	ppb
Molybdenum	96-1	4997.54	5089.11	5055.95	5047.54	0.92	ppb
Molybdenum	97-1	5042.79	5105.04	5034.30	5060.71	0.76	ppb
Molybdenum	98-1	5007.32	5048.19	5040.44	5031.98	0.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	453.89	459.82	452.95	455.56	0.82	ppb
Phosphorus	31-2	10089.79	10034.04	10041.25	10055.03	0.30	ppb
Potassium	39-2	125799.66	125442.39	124913.28	125385.11	0.36	ppb
Rhodium	103-1				86		%
Rhodium	103-2				85		%
Scandium	45-1				94		%
Scandium	45-2				91		%
Selenium	82-1	478.48	496.94	492.12	489.18	1.96	ppb
Selenium	77-2	492.23	505.27	517.78	505.09	2.53	ppb
Selenium	78-2	501.92	505.06	471.48	492.82	3.76	ppb
Silicon	28-1	500.78	503.61	515.83	506.74	1.58	ppb
Silver	107-1	484.58	489.53	478.18	484.10	1.18	ppb
Silver	109-1	486.38	483.36	477.53	482.42	0.93	ppb
Sodium	23-2	268825.91	271668.36	265712.34	268735.54	1.11	ppb
Strontium	86-1	12463.05	12895.96	12680.98	12680.00	1.71	ppb
Strontium	88-1	12404.19	12800.68	12538.54	12581.13	1.60	ppb
Sulfur	34-1	11512.71	11137.88	11169.61	11273.40	1.84	ppb
Terbium	159-1				97		%
Terbium	159-2				92		%
Thallium	203-1	512.40	509.43	512.99	511.61	0.37	ppb
Thallium	205-1	511.18	512.73	508.48	510.80	0.42	ppb
Tin	118-1	491.56	501.57	496.28	496.47	1.01	ppb
Titanium	47-1	5017.28	5059.76	5062.68	5046.57	0.50	ppb
Uranium	238-1	525.21	517.03	521.27	521.17	0.79	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	508.96	519.38	516.91	515.08	1.06	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				91		%
Zinc	66-2	4929.08	4960.76	4877.25	4922.36	0.86	ppb
Zirconium	90-1	506.86	509.33	509.52	508.57	0.29	ppb
Zirconium	91-1	506.63	520.62	511.44	512.90	1.39	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.55	0.34	1.75	0.88	86.40	ppb
Antimony	121-1	0.16	0.16	0.14	0.15	6.75	ppb
Arsenic	75-2	-0.03	-0.02	-0.01	-0.02		ppb
Barium	135-1	-0.06	-0.05	-0.07	-0.06		ppb
Barium	137-1	-0.03	-0.05	-0.06	-0.04		ppb
Beryllium	9-1	0.16	0.14	0.15	0.15	6.96	ppb
Bismuth	209-1				101		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.16	0.06	0.10	59.06	ppb
Cadmium	106-1	-0.78	-0.18	-0.15	-0.37		ppb
Cadmium	111-1	-0.03	0.01	0.00	-0.01		ppb
Calcium	43-1	-23.68	-26.41	-27.80	-25.97		ppb
Calcium	44-1	-25.29	-28.01	-28.27	-27.19		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.03	0.00	-0.02	-0.02		ppb
Cobalt	59-2	0.02	0.01	0.03	0.02	28.60	ppb
Copper	63-2	0.17	0.12	0.11	0.13	27.09	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				96		%
Indium	115-1				100		%
Indium	115-2				93		%
Iron	54-2	2.62	2.88	2.41	2.64	8.93	ppb
Iron	56-2	2.37	2.43	2.32	2.37	2.46	ppb
Iron	57-2	2.97	1.36	2.78	2.37	37.00	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.15	0.13	0.15	14.01	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.13	0.13	0.14	14.03	ppb
Lead	208-1	0.17	0.15	0.13	0.15	15.61	ppb
Lithium	6-1				98		%
Magnesium	24-2	-1.06	-1.05	-1.55	-1.22		ppb
Manganese	55-2	0.11	0.10	0.12	0.11	11.18	ppb
Molybdenum	94-1	0.18	0.16	0.13	0.16	15.00	ppb
Molybdenum	95-1	0.19	0.14	0.15	0.16	13.85	ppb
Molybdenum	96-1	0.19	0.16	0.15	0.17	13.62	ppb
Molybdenum	97-1	0.23	0.13	0.13	0.16	34.92	ppb
Molybdenum	98-1	0.20	0.16	0.14	0.17	18.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.00	-0.03	-0.04	-0.02		ppb
Phosphorus	31-2	-26.56	-35.08	-30.85	-30.83		ppb
Potassium	39-2	10.49	12.90	10.07	11.15	13.70	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				100		%
Scandium	45-2				95		%
Selenium	82-1	0.05	0.43	0.07	0.18	116.32	ppb
Selenium	77-2	0.84	0.00	0.00	0.28	173.21	ppb
Selenium	78-2	-0.36	-0.13	-0.37	-0.28		ppb
Silicon	28-1	2.02	1.13	0.73	1.30	51.04	ppb
Silver	107-1	0.06	0.06	0.06	0.06	4.88	ppb
Silver	109-1	0.07	0.06	0.05	0.06	17.30	ppb
Sodium	23-2	58.84	54.27	55.41	56.17	4.24	ppb
Strontium	86-1	-0.05	-0.16	0.08	-0.04		ppb
Strontium	88-1	0.32	0.26	0.28	0.28	11.11	ppb
Sulfur	34-1	-197.51	-282.42	-205.77	-228.57		ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.05	0.04	0.04	0.05	10.63	ppb
Thallium	205-1	0.05	0.05	0.04	0.04	8.91	ppb
Tin	118-1	0.02	0.01	0.01	0.02	49.68	ppb
Titanium	47-1	0.35	0.30	0.28	0.31	12.43	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	24.44	ppb

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	100.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				96		%
Zinc	66-2	0.11	-0.11	0.07	0.02	507.86	ppb
Zirconium	90-1	0.02	0.01	0.01	0.02	22.41	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	24.67	ppb

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	67	93	83	17.43	cps
Antimony	121-1	60	83	93	79	21.68	cps
Arsenic	75-2	10	17	17	14	26.66	cps
Barium	135-1	713	703	717	711	0.98	cps
Barium	137-1	1137	1323	1150	1203	8.65	cps
Beryllium	9-1	390	360	397	382	5.19	cps
Bismuth	209-1	14140037	14106576	14164683	14137099	0.21	cps
Bismuth	209-2	5527546	5500738	5516508	5514931	0.24	cps
Bromine	81-1	4191	4341	4364	4298	2.19	cps
Cadmium	108-1	23	30	10	21	48.24	cps
Cadmium	106-1	8326	8376	8086	8263	1.88	cps
Cadmium	111-1	5822	5865	5676	5788	1.71	cps
Calcium	43-1	2230	2090	2197	2172	3.37	cps
Calcium	44-1	55677	55657	56015	55783	0.36	cps
Carbon	12-1	3320287	3274381	3237990	3277553	1.26	cps
Carbon	12-2	21686	21833	21583	21701	0.58	cps
Chlorine	35-1	163667	165463	163984	164371	0.58	cps
Chlorine	35-2	660	583	543	596	9.95	cps
Chromium	52-2	897	920	837	884	4.86	cps
Cobalt	59-2	110	87	110	102	13.18	cps
Copper	63-2	2834	2654	2577	2688	4.90	cps
Dysprosium	156-1	67	80	37	61	36.31	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	93	97	133	108	20.60	cps
Erbium	164-2	33	13	40	29	48.05	cps
Gadolinium	160-1	127	173	113	138	22.87	cps
Gadolinium	160-2	23	23	33	27	21.65	cps
Holmium	165-1	21777494	21785281	21525639	21696138	0.68	cps
Holmium	165-2	7435155	7232318	7186158	7284544	1.82	cps
Indium	115-1	16734716	17114442	16484305	16777821	1.89	cps
Indium	115-2	1580112	1594244	1617425	1597260	1.18	cps
Iron	54-2	417	423	430	423	1.57	cps
Iron	56-2	5274	5198	5498	5323	2.93	cps
Iron	57-2	140	163	170	158	9.98	cps
Krypton	83-1	280	283	260	274	4.60	cps
Lead	206-1	2320	2230	2197	2249	2.84	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2057	2004	1994	2018	1.69	cps
Lead	208-1	9285	9008	9165	9152	1.52	cps
Lithium	6-1	8796205	8673967	8504288	8658154	1.69	cps
Magnesium	24-2	3404	3494	3347	3415	2.17	cps
Manganese	55-2	193	153	163	170	12.24	cps
Molybdenum	94-1	453	370	423	416	10.16	cps
Molybdenum	95-1	170	143	130	148	13.78	cps
Molybdenum	96-1	247	230	213	230	7.25	cps
Molybdenum	97-1	107	100	107	104	3.69	cps
Molybdenum	98-1	267	297	183	249	23.59	cps
Neodymium	150-1	7	20	13	13	49.99	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	1030	1013	923	989	5.80	cps
Phosphorus	31-2	103	90	110	101	10.07	cps
Potassium	39-2	12359	12636	12342	12445	1.32	cps
Rhodium	103-1	15830288	15914368	15687467	15810708	0.73	cps
Rhodium	103-2	6036227	5980463	5965551	5994081	0.62	cps
Scandium	45-1	11599282	11710324	11515340	11608315	0.84	cps
Scandium	45-2	217782	217520	217819	217707	0.07	cps
Selenium	82-1	-43	-3	43	-1	-3896.18	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	17	13	12	41.65	cps
Silicon	28-1	549150	548807	546565	548174	0.26	cps
Silver	107-1	180	217	173	190	12.28	cps
Silver	109-1	60	57	77	64	16.63	cps
Sodium	23-2	73571	73490	71899	72987	1.29	cps
Strontium	86-1	597	670	603	623	6.51	cps
Strontium	88-1	1230	1227	1183	1213	2.15	cps
Sulfur	34-1	762006	770050	764443	765500	0.54	cps
Terbium	159-1	22236750	22413180	22273034	22307654	0.42	cps
Terbium	159-2	6943268	6980021	7101173	7008154	1.18	cps
Thallium	203-1	367	347	400	371	7.26	cps
Thallium	205-1	863	923	873	887	3.63	cps
Tin	118-1	3427	3427	3414	3423	0.22	cps
Titanium	47-1	147	240	190	192	24.30	cps
Uranium	238-1	40	23	23	29	33.32	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:17:01	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	30	40	26	66.92	cps
Ytterbium	172-1	100	110	120	110	9.09	cps
Ytterbium	172-2	27	37	57	40	38.18	cps
Ytterbium	176-1	2294	2257	2117	2222	4.20	cps
Ytterbium	176-2	393	487	423	434	10.97	cps
Yttrium	89-1	29221874	29160475	28999970	29127439	0.39	cps
Yttrium	89-2	1999258	1997131	2008466	2001618	0.30	cps
Zinc	66-2	367	350	280	332	13.84	cps
Zirconium	90-1	917	1143	977	1012	11.60	cps
Zirconium	91-1	223	180	193	199	11.16	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1523	1713	1587	1608	6.02	cps
Antimony	121-1	36947	36746	36980	36891	0.34	cps
Arsenic	75-2	317	420	433	390	16.37	cps
Barium	135-1	43995	44366	44105	44155	0.43	cps
Barium	137-1	76665	76746	77255	76889	0.42	cps
Beryllium	9-1	7056	7261	7078	7132	1.58	cps
Bismuth	209-1	13878335	13746213	14109547	13911365	1.32	cps
Bismuth	209-2	6010179	5417635	5411584	5613133	6.13	cps
Bromine	81-1	4197	4194	4124	4172	0.99	cps
Cadmium	108-1	423	353	430	402	10.56	cps
Cadmium	106-1	8666	8780	8746	8731	0.67	cps
Cadmium	111-1	10477	10786	10689	10651	1.48	cps
Calcium	43-1	30790	31027	31789	31202	1.67	cps
Calcium	44-1	525532	520095	524739	523455	0.56	cps
Carbon	12-1	3617106	3569755	3525526	3570796	1.28	cps
Carbon	12-2	23325	23743	23769	23612	1.05	cps
Chlorine	35-1	169000	167827	170342	169056	0.74	cps
Chlorine	35-2	803	667	720	730	9.44	cps
Chromium	52-2	8873	9200	8726	8933	2.71	cps
Cobalt	59-2	8252	8089	8222	8188	1.06	cps
Copper	63-2	15021	14915	15335	15090	1.45	cps
Dysprosium	156-1	60	77	47	61	24.60	cps
Dysprosium	156-2	0	7	10	6	91.64	cps
Erbium	164-1	97	80	97	91	10.56	cps
Erbium	164-2	37	20	33	30	29.40	cps
Gadolinium	160-1	167	160	107	144	22.77	cps
Gadolinium	160-2	37	27	27	30	19.24	cps
Holmium	165-1	21289948	21370869	21298929	21319915	0.21	cps
Holmium	165-2	8217317	7158894	7123927	7500046	8.29	cps
Indium	115-1	16433672	16073657	16204163	16237164	1.12	cps
Indium	115-2	1801316	1563367	1565968	1643550	8.31	cps
Iron	54-2	8783	8803	9080	8888	1.87	cps
Iron	56-2	158698	157977	159247	158641	0.40	cps
Iron	57-2	3814	3954	4227	3998	5.26	cps
Krypton	83-1	250	297	280	276	8.58	cps
Lead	206-1	17155	17529	16975	17219	1.64	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15389	15249	15503	15380	0.83	cps
Lead	208-1	68808	69700	69828	69445	0.80	cps
Lithium	6-1	8549371	8468345	8469628	8495781	0.55	cps
Magnesium	24-2	142987	143655	143525	143389	0.25	cps
Manganese	55-2	1917	1677	1657	1750	8.27	cps
Molybdenum	94-1	37858	37096	38126	37693	1.42	cps
Molybdenum	95-1	44531	45501	45407	45146	1.19	cps
Molybdenum	96-1	50378	50572	50926	50625	0.55	cps
Molybdenum	97-1	28225	29044	27921	28397	2.04	cps
Molybdenum	98-1	73526	73359	75175	74020	1.36	cps
Neodymium	150-1	7	13	23	14	58.06	cps
Neodymium	150-2	10	0	7	6	91.64	cps
Nickel	60-2	2997	3094	3104	3065	1.92	cps
Phosphorus	31-2	297	293	227	272	14.51	cps
Potassium	39-2	85662	85360	86051	85691	0.40	cps
Rhodium	103-1	15718072	15584444	15556985	15619834	0.55	cps
Rhodium	103-2	6810709	5993241	5842226	6215392	8.38	cps
Scandium	45-1	11579885	11516926	11517080	11537964	0.31	cps
Scandium	45-2	242547	214659	216428	224545	6.95	cps
Selenium	82-1	1497	1477	1317	1430	6.90	cps
Selenium	77-2	23	30	13	22	37.76	cps
Selenium	78-2	110	107	73	97	20.98	cps
Silicon	28-1	640840	640775	642279	641298	0.13	cps
Silver	107-1	22135	23300	22969	22801	2.63	cps
Silver	109-1	21817	22004	21514	21778	1.14	cps
Sodium	23-2	347674	349953	347047	348225	0.44	cps
Strontium	86-1	6468	6462	6608	6513	1.27	cps
Strontium	88-1	52220	52026	51842	52030	0.36	cps
Sulfur	34-1	778787	773492	778725	777001	0.39	cps
Terbium	159-1	21658470	21868299	21801336	21776035	0.49	cps
Terbium	159-2	7914438	6986791	6907063	7269431	7.70	cps
Thallium	203-1	19538	18974	19094	19202	1.55	cps
Thallium	205-1	45098	45399	45309	45269	0.34	cps
Tin	118-1	76972	77099	78077	77383	0.78	cps
Titanium	47-1	14084	14838	14684	14535	2.74	cps
Uranium	238-1	60262	59431	59954	59882	0.70	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:20:21	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	15405	15465	16326	15732	3.28	cps
Ytterbium	172-1	123	87	157	122	28.65	cps
Ytterbium	172-2	50	20	50	40	43.30	cps
Ytterbium	176-1	2484	2470	2304	2419	4.15	cps
Ytterbium	176-2	490	423	480	464	7.74	cps
Yttrium	89-1	29126630	29041350	28686162	28951381	0.81	cps
Yttrium	89-2	2249357	1978858	1954947	2061054	7.93	cps
Zinc	66-2	3384	3454	3500	3446	1.70	cps
Zirconium	90-1	31796	32384	32642	32274	1.34	cps
Zirconium	91-1	6825	7052	7065	6981	1.93	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	72121	71407	71588	71705	0.52	cps
Antimony	121-1	863281	864630	869559	865823	0.38	cps
Arsenic	75-2	16877	16813	16770	16820	0.32	cps
Barium	135-1	1041406	1052424	1043375	1045735	0.56	cps
Barium	137-1	1844897	1852470	1849450	1848939	0.21	cps
Beryllium	9-1	310601	307671	310360	309544	0.53	cps
Bismuth	209-1	14004339	13503625	13843682	13783882	1.85	cps
Bismuth	209-2	5357871	5345708	5367647	5357075	0.21	cps
Bromine	81-1	4224	4161	4254	4213	1.13	cps
Cadmium	108-1	17655	18402	18609	18222	2.76	cps
Cadmium	106-1	32993	33210	33130	33111	0.33	cps
Cadmium	111-1	223788	227838	225791	225806	0.90	cps
Calcium	43-1	282431	282135	282557	282375	0.08	cps
Calcium	44-1	4785802	4805689	4708047	4766513	1.08	cps
Carbon	12-1	3725957	3677036	3667588	3690194	0.85	cps
Carbon	12-2	25282	25101	24647	25010	1.31	cps
Chlorine	35-1	172720	172673	174882	173425	0.73	cps
Chlorine	35-2	573	623	643	613	5.88	cps
Chromium	52-2	184457	183633	183704	183931	0.25	cps
Cobalt	59-2	358192	356766	354606	356521	0.51	cps
Copper	63-2	2896960	2940242	2888150	2908451	0.96	cps
Dysprosium	156-1	73	67	77	72	7.05	cps
Dysprosium	156-2	17	3	10	10	66.70	cps
Erbium	164-1	137	97	123	119	17.13	cps
Erbium	164-2	40	20	20	27	43.30	cps
Gadolinium	160-1	160	123	153	146	13.42	cps
Gadolinium	160-2	30	40	43	38	18.36	cps
Holmium	165-1	21516273	20844092	21372191	21244185	1.67	cps
Holmium	165-2	7141549	7109537	7173320	7141469	0.45	cps
Indium	115-1	16254424	15714273	16181919	16050205	1.83	cps
Indium	115-2	1540744	1510349	1541050	1530714	1.15	cps
Iron	54-2	388912	381735	391386	387344	1.29	cps
Iron	56-2	7171703	7093779	7074278	7113253	0.72	cps
Iron	57-2	176862	173070	175259	175064	1.09	cps
Krypton	83-1	277	290	287	284	2.44	cps
Lead	206-1	3821707	3779430	3768020	3789719	0.75	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3292367	3246092	3298319	3278926	0.87	cps
Lead	208-1	15156618	14937389	15035763	15043257	0.73	cps
Lithium	6-1	8473739	8271925	8394966	8380210	1.21	cps
Magnesium	24-2	1345132	1340675	1380091	1355299	1.59	cps
Manganese	55-2	759124	756274	751368	755588	0.52	cps
Molybdenum	94-1	3066133	3095621	3103417	3088390	0.64	cps
Molybdenum	95-1	4421577	4457582	4445673	4441611	0.41	cps
Molybdenum	96-1	4907670	4988552	4948449	4948224	0.82	cps
Molybdenum	97-1	2750828	2806214	2755362	2770801	1.11	cps
Molybdenum	98-1	7260201	7258073	7177335	7231870	0.65	cps
Neodymium	150-1	87	63	67	72	17.48	cps
Neodymium	150-2	0	0	10	3	173.21	cps
Nickel	60-2	101962	100424	100055	100814	1.00	cps
Phosphorus	31-2	3767	3540	3440	3583	4.67	cps
Potassium	39-2	357943	354467	355472	355961	0.50	cps
Rhodium	103-1	15512964	15031755	15381596	15308772	1.62	cps
Rhodium	103-2	5810091	5829519	5764916	5801509	0.57	cps
Scandium	45-1	11401083	11093484	11475130	11323233	1.79	cps
Scandium	45-2	210976	208927	212043	210649	0.75	cps
Selenium	82-1	13660	13504	13380	13515	1.04	cps
Selenium	77-2	267	183	220	223	18.70	cps
Selenium	78-2	770	753	677	733	6.79	cps
Silicon	28-1	1285733	1293056	1293544	1290778	0.34	cps
Silver	107-1	1102473	1119965	1117596	1113345	0.85	cps
Silver	109-1	1056024	1069095	1074875	1066665	0.91	cps
Sodium	23-2	2750139	2748244	2755716	2751366	0.14	cps
Strontium	86-1	276470	274017	275698	275395	0.46	cps
Strontium	88-1	2539191	2473608	2500542	2504447	1.32	cps
Sulfur	34-1	865622	859514	853492	859542	0.71	cps
Terbium	159-1	21918073	21182710	21735678	21612154	1.77	cps
Terbium	159-2	6874471	6884708	6827736	6862305	0.44	cps
Thallium	203-1	891404	889578	898998	893327	0.56	cps
Thallium	205-1	2194965	2180345	2183313	2186208	0.35	cps
Tin	118-1	698133	705238	700509	701293	0.52	cps
Titanium	47-1	1379212	1380005	1381240	1380152	0.07	cps
Uranium	238-1	3076582	3071055	3064919	3070852	0.19	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:23:43	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	142306	142753	142393	142484	0.17	cps
Ytterbium	172-1	117	120	140	126	10.05	cps
Ytterbium	172-2	60	37	43	47	25.75	cps
Ytterbium	176-1	6398	6468	6602	6489	1.59	cps
Ytterbium	176-2	1837	1743	1740	1773	3.09	cps
Yttrium	89-1	28499490	27642484	28517728	28219900	1.77	cps
Yttrium	89-2	1929990	1937437	1908323	1925250	0.79	cps
Zinc	66-2	297992	296674	297522	297396	0.22	cps
Zirconium	90-1	1557281	1542636	1568423	1556113	0.83	cps
Zirconium	91-1	326571	328390	325952	326971	0.39	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	174814	172979	174280	174024	0.54	cps
Antimony	121-1	2187082	2174692	2172630	2178135	0.36	cps
Arsenic	75-2	40495	40869	41327	40897	1.02	cps
Barium	135-1	2691811	2682687	2660332	2678277	0.60	cps
Barium	137-1	4681350	4595272	4651473	4642698	0.94	cps
Beryllium	9-1	748209	747087	748489	747928	0.10	cps
Bismuth	209-1	13674856	13909372	13667664	13750630	1.00	cps
Bismuth	209-2	5243268	5696946	5369638	5436617	4.31	cps
Bromine	81-1	3964	4114	3961	4013	2.18	cps
Cadmium	108-1	44010	43268	43615	43631	0.85	cps
Cadmium	106-1	68727	68358	68244	68443	0.37	cps
Cadmium	111-1	541437	547242	549152	545944	0.74	cps
Calcium	43-1	693393	695131	696964	695163	0.26	cps
Calcium	44-1	11526723	11432254	11611841	11523606	0.78	cps
Carbon	12-1	3865731	3798252	3792660	3818881	1.06	cps
Carbon	12-2	25652	25355	25646	25551	0.66	cps
Chlorine	35-1	172440	173172	172032	172548	0.33	cps
Chlorine	35-2	623	680	690	664	5.41	cps
Chromium	52-2	448106	443723	448581	446803	0.60	cps
Cobalt	59-2	870458	873949	865925	870111	0.46	cps
Copper	63-2	6963173	6948335	7099398	7003635	1.19	cps
Dysprosium	156-1	100	90	103	98	7.10	cps
Dysprosium	156-2	13	7	7	9	43.25	cps
Erbium	164-1	147	133	133	138	5.59	cps
Erbium	164-2	27	7	43	26	71.82	cps
Gadolinium	160-1	137	150	137	141	5.45	cps
Gadolinium	160-2	27	50	37	38	30.98	cps
Holmium	165-1	21689281	21296743	21368113	21451379	0.97	cps
Holmium	165-2	6977152	7622549	7275874	7291858	4.43	cps
Indium	115-1	16152481	16060538	15963698	16058905	0.59	cps
Indium	115-2	1464405	1621212	1532409	1539342	5.11	cps
Iron	54-2	933199	927232	944246	934892	0.92	cps
Iron	56-2	17357275	17325299	17347668	17343414	0.09	cps
Iron	57-2	426939	424625	426942	426169	0.31	cps
Krypton	83-1	307	257	237	267	13.52	cps
Lead	206-1	9388721	9378727	9323309	9363586	0.38	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8053956	8017834	8012952	8028247	0.28	cps
Lead	208-1	37089259	37102012	37077371	37089547	0.03	cps
Lithium	6-1	8342862	8481981	8327191	8384011	1.02	cps
Magnesium	24-2	3335560	3307637	3299187	3314128	0.57	cps
Manganese	55-2	1909557	1889399	1886028	1894994	0.67	cps
Molybdenum	94-1	7587779	7560831	7529547	7559386	0.39	cps
Molybdenum	95-1	11022346	10882334	10750060	10884913	1.25	cps
Molybdenum	96-1	12157632	11985406	11967772	12036937	0.87	cps
Molybdenum	97-1	6843046	6758860	6780232	6794046	0.64	cps
Molybdenum	98-1	17887307	17571216	17688241	17715588	0.90	cps
Neodymium	150-1	180	170	180	177	3.27	cps
Neodymium	150-2	7	0	7	4	86.60	cps
Nickel	60-2	240054	239675	241465	240398	0.39	cps
Phosphorus	31-2	8466	8496	8409	8457	0.52	cps
Potassium	39-2	850004	853467	850828	851433	0.21	cps
Rhodium	103-1	15081286	15143155	15019034	15081158	0.41	cps
Rhodium	103-2	5743073	6111874	5769485	5874811	3.50	cps
Scandium	45-1	11242042	11151322	11259122	11217495	0.52	cps
Scandium	45-2	207384	224664	213141	215063	4.09	cps
Selenium	82-1	32298	33197	32161	32552	1.73	cps
Selenium	77-2	417	523	577	506	16.11	cps
Selenium	78-2	1787	1783	1747	1772	1.25	cps
Silicon	28-1	2358480	2350875	2329967	2346441	0.63	cps
Silver	107-1	2922500	2861287	2884829	2889538	1.07	cps
Silver	109-1	2752544	2726141	2661208	2713298	1.73	cps
Sodium	23-2	6509498	6386840	6530090	6475476	1.20	cps
Strontium	86-1	680140	680250	676003	678798	0.36	cps
Strontium	88-1	6030411	6105556	6033749	6056572	0.70	cps
Sulfur	34-1	979157	957303	938035	958165	2.15	cps
Terbium	159-1	21618325	21856241	21826177	21766914	0.60	cps
Terbium	159-2	6748683	7422968	6948268	7039973	4.92	cps
Thallium	203-1	2342429	2327489	2351854	2340591	0.52	cps
Thallium	205-1	5440667	5497822	5413335	5450608	0.79	cps
Tin	118-1	1787350	1772083	1792160	1783864	0.59	cps
Titanium	47-1	3313051	3318090	3327541	3319561	0.22	cps
Uranium	238-1	7443791	7591286	7526514	7520530	0.98	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:26:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	351820	347318	349785	349641	0.64	cps
Ytterbium	172-1	130	160	107	132	20.22	cps
Ytterbium	172-2	73	63	43	60	25.46	cps
Ytterbium	176-1	12336	12503	12633	12490	1.19	cps
Ytterbium	176-2	3804	3724	3847	3792	1.65	cps
Yttrium	89-1	27927097	27987264	27872365	27928909	0.21	cps
Yttrium	89-2	1904353	2071793	1902996	1959714	4.95	cps
Zinc	66-2	722199	718031	728418	722882	0.72	cps
Zirconium	90-1	3856853	3858654	3825897	3847135	0.48	cps
Zirconium	91-1	810157	809269	808931	809453	0.08	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	338538	345606	340592	341578	1.06	cps
Antimony	121-1	4410424	4413712	4356527	4393554	0.73	cps
Arsenic	75-2	80562	80431	80136	80376	0.27	cps
Barium	135-1	5358722	5468327	5376434	5401161	1.09	cps
Barium	137-1	9195713	9141234	9206832	9181260	0.38	cps
Beryllium	9-1	1500391	1464061	1542128	1502193	2.60	cps
Bismuth	209-1	13440946	13703899	13430138	13524994	1.15	cps
Bismuth	209-2	5051654	5115736	5703864	5290418	6.80	cps
Bromine	81-1	3624	3884	3884	3797	3.95	cps
Cadmium	108-1	87496	87676	87361	87511	0.18	cps
Cadmium	106-1	126725	128327	127332	127461	0.63	cps
Cadmium	111-1	1064106	1068768	1072750	1068541	0.40	cps
Calcium	43-1	1423579	1454729	1387161	1421823	2.38	cps
Calcium	44-1	22660565	22947201	22537337	22715034	0.93	cps
Carbon	12-1	3895250	3853788	3865037	3871359	0.55	cps
Carbon	12-2	26450	26400	26450	26434	0.11	cps
Chlorine	35-1	169183	169654	170487	169775	0.39	cps
Chlorine	35-2	667	683	700	683	2.44	cps
Chromium	52-2	881734	887215	871996	880315	0.88	cps
Cobalt	59-2	1759214	1762802	1734441	1752153	0.88	cps
Copper	63-2	13608044	13548759	13677459	13611420	0.47	cps
Dysprosium	156-1	157	117	140	138	14.58	cps
Dysprosium	156-2	37	17	13	22	56.80	cps
Erbium	164-1	167	150	150	156	6.19	cps
Erbium	164-2	50	43	40	44	11.46	cps
Gadolinium	160-1	217	177	213	202	10.98	cps
Gadolinium	160-2	23	20	30	24	20.83	cps
Holmium	165-1	21315183	21109281	21443691	21289385	0.79	cps
Holmium	165-2	6958606	6988438	7866319	7271121	7.09	cps
Indium	115-1	16061758	15745966	15825485	15877736	1.03	cps
Indium	115-2	1439223	1442999	1659830	1514018	8.34	cps
Iron	54-2	1902382	1927625	1899787	1909931	0.81	cps
Iron	56-2	34447034	34581831	34096794	34375219	0.73	cps
Iron	57-2	839302	833994	831905	835067	0.46	cps
Krypton	83-1	303	227	273	268	14.43	cps
Lead	206-1	18711794	18669124	18638277	18673065	0.20	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16103613	16268991	16122774	16165126	0.56	cps
Lead	208-1	73649103	74405533	74153877	74069504	0.52	cps
Lithium	6-1	8192828	8227562	8150824	8190404	0.47	cps
Magnesium	24-2	6496114	6534869	6348482	6459822	1.52	cps
Manganese	55-2	3793867	3809539	3677208	3760205	1.92	cps
Molybdenum	94-1	15058059	15097689	14976584	15044111	0.41	cps
Molybdenum	95-1	21784789	21619273	21960381	21788148	0.78	cps
Molybdenum	96-1	24239661	23904224	24278335	24140740	0.85	cps
Molybdenum	97-1	13640650	13357720	13565387	13521252	1.08	cps
Molybdenum	98-1	35736694	35698840	35566686	35667407	0.25	cps
Neodymium	150-1	317	327	340	328	3.57	cps
Neodymium	150-2	10	20	13	14	35.26	cps
Nickel	60-2	471515	473705	469311	471511	0.47	cps
Phosphorus	31-2	15855	16756	16253	16288	2.77	cps
Potassium	39-2	1752627	1739784	1723891	1738767	0.83	cps
Rhodium	103-1	14597018	14497871	14662172	14585687	0.57	cps
Rhodium	103-2	5534982	5553185	6248326	5778831	7.04	cps
Scandium	45-1	11138269	11063703	10976435	11059469	0.73	cps
Scandium	45-2	204186	202061	231507	212584	7.72	cps
Selenium	82-1	64318	65814	64335	64822	1.33	cps
Selenium	77-2	1023	1070	943	1012	6.33	cps
Selenium	78-2	3694	3704	3590	3663	1.71	cps
Silicon	28-1	4093503	4026541	4001882	4040642	1.17	cps
Silver	107-1	5694700	5637873	5680096	5670890	0.52	cps
Silver	109-1	5312201	5285671	5410730	5336201	1.23	cps
Sodium	23-2	12628354	12672265	12718386	12673002	0.36	cps
Strontium	86-1	1340827	1362098	1360101	1354342	0.87	cps
Strontium	88-1	11965420	11945645	11960113	11957059	0.09	cps
Sulfur	34-1	1090176	1090574	1075069	1085273	0.81	cps
Terbium	159-1	21946758	22150821	21732921	21943500	0.95	cps
Terbium	159-2	6681182	6685726	7438406	6935105	6.29	cps
Thallium	203-1	4690437	4541555	4629493	4620495	1.62	cps
Thallium	205-1	10749826	10914775	10772139	10812247	0.83	cps
Tin	118-1	3547241	3592887	3525182	3555103	0.97	cps
Titanium	47-1	6590267	6621704	6579308	6597093	0.33	cps
Uranium	238-1	14746639	15054205	14867561	14889468	1.04	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:29:44	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	691510	699127	694610	695082	0.55	cps
Ytterbium	172-1	127	143	183	151	19.27	cps
Ytterbium	172-2	60	63	67	63	5.27	cps
Ytterbium	176-1	22509	23020	22830	22786	1.13	cps
Ytterbium	176-2	6912	7362	7219	7164	3.21	cps
Yttrium	89-1	27699965	27559788	27677138	27645630	0.27	cps
Yttrium	89-2	1890081	1857506	2083792	1943793	6.29	cps
Zinc	66-2	1418524	1425549	1416204	1420092	0.34	cps
Zirconium	90-1	7457293	7458193	7460316	7458601	0.02	cps
Zirconium	91-1	1693892	1686379	1684461	1688244	0.30	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	676165	681053	682762	679994	0.50	cps
Antimony	121-1	8606646	8544716	8688869	8613410	0.84	cps
Arsenic	75-2	160826	159424	162040	160763	0.81	cps
Barium	135-1	10688744	10417959	10642798	10583167	1.37	cps
Barium	137-1	18306537	18097098	18504147	18302594	1.11	cps
Beryllium	9-1	2880780	2955912	2857202	2897965	1.78	cps
Bismuth	209-1	13408150	13530558	13328994	13422567	0.76	cps
Bismuth	209-2	5051930	5087016	5123345	5087430	0.70	cps
Bromine	81-1	3611	3771	3757	3713	2.39	cps
Cadmium	108-1	166040	170212	169832	168695	1.37	cps
Cadmium	106-1	241142	241427	241874	241481	0.15	cps
Cadmium	111-1	2202939	2166461	2160957	2176786	1.05	cps
Calcium	43-1	2749989	2782647	2819077	2783905	1.24	cps
Calcium	44-1	44340811	44671776	44954676	44655754	0.69	cps
Carbon	12-1	4026187	4087860	4181604	4098550	1.91	cps
Carbon	12-2	29406	29637	29991	29678	0.99	cps
Chlorine	35-1	175861	177592	178908	177453	0.86	cps
Chlorine	35-2	637	863	663	721	17.18	cps
Chromium	52-2	1821665	1821234	1784907	1809269	1.17	cps
Cobalt	59-2	3464380	3450587	3519023	3477996	1.04	cps
Copper	63-2	27355492	26815894	27213013	27128133	1.03	cps
Dysprosium	156-1	227	183	223	211	11.42	cps
Dysprosium	156-2	27	43	10	27	62.49	cps
Erbium	164-1	193	160	187	180	9.80	cps
Erbium	164-2	50	67	103	73	37.21	cps
Gadolinium	160-1	220	173	170	188	14.89	cps
Gadolinium	160-2	83	47	47	59	35.94	cps
Holmium	165-1	21292758	21287101	21247118	21275659	0.12	cps
Holmium	165-2	6858970	6961728	6877830	6899509	0.79	cps
Indium	115-1	15856637	15777712	15826756	15820368	0.25	cps
Indium	115-2	1412462	1429574	1430931	1424322	0.72	cps
Iron	54-2	3779068	3736565	3707833	3741155	0.96	cps
Iron	56-2	68577924	68054927	67847896	68160249	0.55	cps
Iron	57-2	1757207	1723439	1729557	1736734	1.04	cps
Krypton	83-1	270	290	343	301	12.59	cps
Lead	206-1	35938001	36094280	36548483	36193588	0.88	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	31236024	31161605	31761494	31386374	1.04	cps
Lead	208-1	144535210	145050387	145974084	145186560	0.50	cps
Lithium	6-1	7730846	8134141	7904448	7923145	2.55	cps
Magnesium	24-2	12603956	12742857	12571024	12639279	0.72	cps
Manganese	55-2	7371037	7357893	7188862	7305931	1.39	cps
Molybdenum	94-1	29721082	29813865	30090788	29875245	0.64	cps
Molybdenum	95-1	42775408	42881489	42753502	42803466	0.16	cps
Molybdenum	96-1	46986946	47508211	47111596	47202251	0.58	cps
Molybdenum	97-1	26261227	26938546	26531922	26577232	1.28	cps
Molybdenum	98-1	70716252	69984986	70541674	70414304	0.54	cps
Neodymium	150-1	593	567	527	562	5.97	cps
Neodymium	150-2	27	27	27	27	0.00	cps
Nickel	60-2	990933	1002713	1001345	998330	0.65	cps
Phosphorus	31-2	32610	32697	31845	32384	1.45	cps
Potassium	39-2	3421888	3416629	3430735	3423084	0.21	cps
Rhodium	103-1	14431796	14629152	14414990	14491979	0.82	cps
Rhodium	103-2	5452894	5494253	5547742	5498296	0.86	cps
Scandium	45-1	10970639	11083997	10887848	10980828	0.90	cps
Scandium	45-2	203969	203193	204811	203991	0.40	cps
Selenium	82-1	124919	126006	126239	125721	0.56	cps
Selenium	77-2	2044	2037	1940	2007	2.88	cps
Selenium	78-2	6928	6762	7075	6922	2.27	cps
Silicon	28-1	7347130	7272219	7493030	7370793	1.52	cps
Silver	107-1	10778276	10845484	10693228	10772329	0.71	cps
Silver	109-1	10182455	10332952	10177194	10230867	0.86	cps
Sodium	23-2	25338230	25082750	25067468	25162816	0.60	cps
Strontium	86-1	2733729	2774351	2782007	2763362	0.94	cps
Strontium	88-1	23541133	24105593	23683095	23776607	1.23	cps
Sulfur	34-1	1423853	1426841	1412900	1421198	0.52	cps
Terbium	159-1	21877492	21675387	21897420	21816766	0.56	cps
Terbium	159-2	6801659	6799433	6722898	6774663	0.66	cps
Thallium	203-1	8919511	8836930	9050821	8935754	1.21	cps
Thallium	205-1	21103084	21124542	21386235	21204621	0.74	cps
Tin	118-1	6956640	6966046	6975825	6966170	0.14	cps
Titanium	47-1	12906960	12798546	12917695	12874400	0.51	cps
Uranium	238-1	29744430	30316935	29816383	29959250	1.04	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:32:34	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1442477	1426682	1414287	1427815	0.99	cps
Ytterbium	172-1	203	233	190	209	10.63	cps
Ytterbium	172-2	97	83	73	84	13.87	cps
Ytterbium	176-1	43391	43307	43786	43495	0.59	cps
Ytterbium	176-2	14445	14448	14118	14337	1.32	cps
Yttrium	89-1	27469329	28105992	27734258	27769860	1.15	cps
Yttrium	89-2	1890128	1852672	1927629	1890143	1.98	cps
Zinc	66-2	2901842	2902808	2908517	2904389	0.12	cps
Zirconium	90-1	14791726	14900321	15013420	14901822	0.74	cps
Zirconium	91-1	3324720	3339278	3300420	3321473	0.59	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1376160	1411842	1386515	1391505	1.32	cps
Antimony	121-1	17128829	17164885	17133786	17142500	0.11	cps
Arsenic	75-2	316502	320033	316554	317697	0.64	cps
Barium	135-1	20809475	20841743	20830413	20827210	0.08	cps
Barium	137-1	35225134	36207339	36228851	35887108	1.60	cps
Beryllium	9-1	5524923	5575351	5566892	5555722	0.49	cps
Bismuth	209-1	13266569	13296629	13148480	13237226	0.59	cps
Bismuth	209-2	4962519	4973380	4906539	4947479	0.72	cps
Bromine	81-1	3811	3857	4254	3974	6.13	cps
Cadmium	108-1	333020	335357	336547	334975	0.54	cps
Cadmium	106-1	468585	477108	475334	473676	0.95	cps
Cadmium	111-1	4242315	4314216	4283061	4279864	0.84	cps
Calcium	43-1	5482351	5455643	5434007	5457334	0.44	cps
Calcium	44-1	88742239	88847492	88143115	88577615	0.43	cps
Carbon	12-1	5015393	5295800	5432304	5247832	4.05	cps
Carbon	12-2	39132	39095	39684	39304	0.84	cps
Chlorine	35-1	195100	197961	199400	197487	1.11	cps
Chlorine	35-2	820	890	857	856	4.09	cps
Chromium	52-2	3675284	3629330	3612204	3638939	0.90	cps
Cobalt	59-2	6782853	6828543	6681744	6764380	1.11	cps
Copper	63-2	51520534	52347524	51636198	51834752	0.86	cps
Dysprosium	156-1	420	423	433	426	1.63	cps
Dysprosium	156-2	40	40	60	47	24.74	cps
Erbium	164-1	330	277	283	297	9.80	cps
Erbium	164-2	87	87	120	98	19.68	cps
Gadolinium	160-1	257	303	337	299	13.44	cps
Gadolinium	160-2	90	73	47	70	31.22	cps
Holmium	165-1	21323668	21820416	21325027	21489704	1.33	cps
Holmium	165-2	6975175	6929772	6996547	6967164	0.49	cps
Indium	115-1	15399427	15728972	15423065	15517155	1.18	cps
Indium	115-2	1380854	1388006	1380243	1383034	0.31	cps
Iron	54-2	7407283	7439486	7356729	7401166	0.56	cps
Iron	56-2	135602298	135509668	132905058	134672341	1.14	cps
Iron	57-2	3361915	3415841	3378313	3385356	0.82	cps
Krypton	83-1	263	300	297	287	7.07	cps
Lead	206-1	71120836	72085739	71989704	71732093	0.74	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	61743706	62130422	61426487	61766872	0.57	cps
Lead	208-1	283088519	286742486	285136116	284989040	0.64	cps
Lithium	6-1	7773957	7923291	7889299	7862182	1.00	cps
Magnesium	24-2	24972955	25223662	25399104	25198574	0.85	cps
Manganese	55-2	14749848	14849301	14732390	14777180	0.43	cps
Molybdenum	94-1	59113382	59988422	59506349	59536051	0.74	cps
Molybdenum	95-1	85749620	86414887	85320110	85828206	0.64	cps
Molybdenum	96-1	93858252	95056642	94678112	94531002	0.65	cps
Molybdenum	97-1	52308154	53329446	53431886	53023162	1.17	cps
Molybdenum	98-1	138390685	140722321	140293715	139802240	0.89	cps
Neodymium	150-1	1240	1267	1230	1246	1.52	cps
Neodymium	150-2	60	43	40	48	22.43	cps
Nickel	60-2	1902800	1901916	1924714	1909810	0.68	cps
Phosphorus	31-2	65219	64124	64509	64617	0.86	cps
Potassium	39-2	6670294	6709616	6603091	6661001	0.81	cps
Rhodium	103-1	14150654	14349089	14255815	14251853	0.70	cps
Rhodium	103-2	5389971	5316564	5263233	5323256	1.20	cps
Scandium	45-1	10801590	11006427	10765479	10857832	1.20	cps
Scandium	45-2	203967	206356	204734	205019	0.60	cps
Selenium	82-1	252700	251875	249962	251512	0.56	cps
Selenium	77-2	3877	3981	3881	3913	1.50	cps
Selenium	78-2	13593	13517	13750	13620	0.87	cps
Silicon	28-1	13724729	13634111	13741318	13700053	0.42	cps
Silver	107-1	21106713	21412667	21309561	21276314	0.73	cps
Silver	109-1	20157858	20249504	20485581	20297648	0.83	cps
Sodium	23-2	49689211	49581988	49836598	49702599	0.26	cps
Strontium	86-1	5436384	5537110	5457609	5477034	0.97	cps
Strontium	88-1	47031584	47699259	47809481	47513442	0.89	cps
Sulfur	34-1	2112483	2106370	2089988	2102947	0.55	cps
Terbium	159-1	22019197	21761789	21662496	21814494	0.84	cps
Terbium	159-2	6748173	6765819	6740526	6751506	0.19	cps
Thallium	203-1	17490206	17903798	17793696	17729233	1.21	cps
Thallium	205-1	41651401	42103024	42311764	42022063	0.80	cps
Tin	118-1	13698807	13825858	13865399	13796688	0.63	cps
Titanium	47-1	25624050	25839580	25730788	25731472	0.42	cps
Uranium	238-1	59991802	59740479	60192126	59974802	0.38	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:35:21	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2846852	2857401	2810945	2838399	0.86	cps
Ytterbium	172-1	330	330	307	322	4.18	cps
Ytterbium	172-2	120	100	113	111	9.17	cps
Ytterbium	176-1	85293	85149	86142	85528	0.63	cps
Ytterbium	176-2	27585	27739	27579	27634	0.33	cps
Yttrium	89-1	27493047	27900240	27816230	27736506	0.78	cps
Yttrium	89-2	1928646	1860866	1875105	1888206	1.89	cps
Zinc	66-2	5579883	5634992	5549301	5588059	0.78	cps
Zirconium	90-1	29750035	29654433	29672443	29692304	0.17	cps
Zirconium	91-1	6720904	6532721	6573889	6609171	1.50	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6299538	6461026	6451193	6403919	1.41	cps
Antimony	121-1	15656	15185	15479	15440	1.54	cps
Arsenic	75-2	160	200	180	180	11.11	cps
Barium	135-1	7422	7405	7305	7378	0.86	cps
Barium	137-1	13060	12779	12396	12745	2.62	cps
Beryllium	9-1	2230	1996	1797	2008	10.78	cps
Bismuth	209-1	11576605	11440184	11471514	11496101	0.62	cps
Bismuth	209-2	4479433	4453768	4587944	4507048	1.58	cps
Bromine	81-1	3701	3981	4184	3955	6.14	cps
Cadmium	108-1	210	247	237	231	8.20	cps
Cadmium	106-1	7439	7302	7222	7321	1.50	cps
Cadmium	111-1	5663	5509	5466	5546	1.87	cps
Calcium	43-1	25058662	24873331	25051606	24994533	0.42	cps
Calcium	44-1	403442621	405691754	407578727	405571034	0.51	cps
Carbon	12-1	4029078	4223339	4256848	4169755	2.95	cps
Carbon	12-2	39416	40265	39844	39842	1.07	cps
Chlorine	35-1	149459	148712	150806	149659	0.71	cps
Chlorine	35-2	530	637	647	604	10.70	cps
Chromium	52-2	10934	10898	10721	10851	1.05	cps
Cobalt	59-2	13900	13570	13196	13555	2.60	cps
Copper	63-2	11335	10884	10701	10973	2.97	cps
Dysprosium	156-1	693	720	667	693	3.85	cps
Dysprosium	156-2	200	163	190	184	10.27	cps
Erbium	164-1	690	693	810	731	9.35	cps
Erbium	164-2	227	253	167	216	20.59	cps
Gadolinium	160-1	600	733	713	682	10.54	cps
Gadolinium	160-2	243	283	213	247	14.24	cps
Holmium	165-1	19996351	19699206	19918534	19871364	0.78	cps
Holmium	165-2	6730408	6691654	6870478	6764180	1.39	cps
Indium	115-1	14132411	13987360	14184125	14101299	0.72	cps
Indium	115-2	1329169	1335798	1357334	1340767	1.10	cps
Iron	54-2	33467569	33637021	32911270	33338620	1.14	cps
Iron	56-2	615992111	614357498	611375711	613908440	0.38	cps
Iron	57-2	15661310	15604568	15475780	15580553	0.61	cps
Krypton	83-1	347	320	280	316	10.63	cps
Lead	206-1	14528	13614	12830	13657	6.22	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12530	11362	11198	11697	6.21	cps
Lead	208-1	56672	53039	51875	53862	4.64	cps
Lithium	6-1	7178770	6980398	6998688	7052619	1.55	cps
Magnesium	24-2	116874712	115262758	118215768	116784413	1.27	cps
Manganese	55-2	6288	6558	6195	6347	2.97	cps
Molybdenum	94-1	41294	41615	41087	41332	0.64	cps
Molybdenum	95-1	42114	41957	42321	42130	0.43	cps
Molybdenum	96-1	49759	48193	48358	48770	1.76	cps
Molybdenum	97-1	26151	27030	25878	26353	2.28	cps
Molybdenum	98-1	66877	67650	66451	66993	0.91	cps
Neodymium	150-1	313	350	327	330	5.62	cps
Neodymium	150-2	87	73	107	89	18.88	cps
Nickel	60-2	6885	6895	6535	6772	3.03	cps
Phosphorus	31-2	147	120	97	121	20.66	cps
Potassium	39-2	31804061	32180578	32132134	32038924	0.64	cps
Rhodium	103-1	12348672	12375244	12436454	12386790	0.36	cps
Rhodium	103-2	4823878	4808668	4948603	4860383	1.58	cps
Scandium	45-1	10146380	10088052	9927411	10053948	1.13	cps
Scandium	45-2	190006	192852	195311	192723	1.38	cps
Selenium	82-1	-43	-23	30	-12	-310.08	cps
Selenium	77-2	7	0	3	3	100.05	cps
Selenium	78-2	13	3	23	13	75.02	cps
Silicon	28-1	656714	653448	636970	649044	1.63	cps
Silver	107-1	4044	3644	3691	3793	5.77	cps
Silver	109-1	3484	3394	3214	3364	4.09	cps
Sodium	23-2	221783270	225772503	224659690	224071821	0.92	cps
Strontium	86-1	16176	16106	16129	16137	0.22	cps
Strontium	88-1	138984	140404	140919	140102	0.72	cps
Sulfur	34-1	630709	629929	639013	633217	0.80	cps
Terbium	159-1	20114345	20341038	20241254	20232212	0.56	cps
Terbium	159-2	6420264	6454809	6634283	6503119	1.77	cps
Thallium	203-1	1837	1560	1527	1641	10.37	cps
Thallium	205-1	4277	3824	3384	3828	11.67	cps
Tin	118-1	3914	4081	3527	3841	7.39	cps
Titanium	47-1	3314	3210	3224	3249	1.73	cps
Uranium	238-1	2837	2410	2287	2511	11.49	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 14:38:06	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	633	797	727	719	11.40	cps
Ytterbium	172-1	900	807	867	858	5.51	cps
Ytterbium	172-2	353	363	337	351	3.84	cps
Ytterbium	176-1	2734	2597	2674	2668	2.57	cps
Ytterbium	176-2	513	687	580	593	14.74	cps
Yttrium	89-1	25597856	25912684	26076415	25862319	0.94	cps
Yttrium	89-2	1825933	1810138	1875955	1837342	1.87	cps
Zinc	66-2	3174	3010	2934	3039	4.03	cps
Zirconium	90-1	46668	47287	47016	46990	0.66	cps
Zirconium	91-1	10441	10327	9997	10255	2.25	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	35059	35630	34962	35217	1.03	cps
Antimony	121-1	3602552	3552155	3569037	3574581	0.72	cps
Arsenic	75-2	68998	69417	69651	69355	0.48	cps
Barium	135-1	422109	424575	427121	424602	0.59	cps
Barium	137-1	737750	740976	758483	745736	1.50	cps
Beryllium	9-1	630827	627302	629491	629207	0.28	cps
Bismuth	209-1	14157021	13828535	13578384	13854647	2.09	cps
Bismuth	209-2	5399245	5331713	5724798	5485252	3.83	cps
Bromine	81-1	4174	4114	4017	4102	1.93	cps
Cadmium	108-1	29612	29622	29946	29726	0.64	cps
Cadmium	106-1	47889	47090	46715	47232	1.27	cps
Cadmium	111-1	443284	455224	449526	449345	1.33	cps
Calcium	43-1	112351	113248	112452	112684	0.44	cps
Calcium	44-1	1918293	1884503	1920662	1907819	1.06	cps
Carbon	12-1	3702583	3763075	3746622	3737427	0.84	cps
Carbon	12-2	25122	25111	25419	25217	0.69	cps
Chlorine	35-1	153733	154194	152180	153369	0.69	cps
Chlorine	35-2	550	607	597	584	5.18	cps
Chromium	52-2	386021	382157	382871	383683	0.54	cps
Cobalt	59-2	747925	746309	747610	747282	0.11	cps
Copper	63-2	590516	587886	588046	588816	0.25	cps
Dysprosium	156-1	33	23	70	42	58.20	cps
Dysprosium	156-2	10	10	7	9	21.63	cps
Erbium	164-1	140	123	103	122	15.02	cps
Erbium	164-2	27	27	47	33	34.64	cps
Gadolinium	160-1	137	77	150	121	32.25	cps
Gadolinium	160-2	17	30	27	24	28.38	cps
Holmium	165-1	21277900	21000847	20918677	21065808	0.89	cps
Holmium	165-2	7077489	7029703	7508875	7205356	3.66	cps
Indium	115-1	16386082	16415490	16264629	16355400	0.49	cps
Indium	115-2	1555396	1519293	1659150	1577946	4.60	cps
Iron	54-2	324240	318259	320338	320946	0.95	cps
Iron	56-2	5817734	5808844	5664673	5763751	1.49	cps
Iron	57-2	143547	141110	139992	141550	1.28	cps
Krypton	83-1	260	277	287	274	4.91	cps
Lead	206-1	3083034	3166427	3181182	3143548	1.68	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2555563	2607029	2598527	2587040	1.07	cps
Lead	208-1	12018849	12078803	12118734	12072129	0.42	cps
Lithium	6-1	8428343	8381873	8460030	8423415	0.47	cps
Magnesium	24-2	301582	302587	302464	302211	0.18	cps
Manganese	55-2	155514	152199	153953	153889	1.08	cps
Molybdenum	94-1	973	960	1040	991	4.32	cps
Molybdenum	95-1	410	443	400	418	5.43	cps
Molybdenum	96-1	1380	1443	1203	1342	9.27	cps
Molybdenum	97-1	207	237	250	231	9.60	cps
Molybdenum	98-1	703	700	810	738	8.48	cps
Neodymium	150-1	50	37	73	53	34.79	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	209084	208399	207583	208356	0.36	cps
Phosphorus	31-2	103	113	83	100	15.28	cps
Potassium	39-2	289496	287174	288753	288474	0.41	cps
Rhodium	103-1	15449809	15581438	15623495	15551580	0.58	cps
Rhodium	103-2	5866433	5843539	6194138	5968037	3.29	cps
Scandium	45-1	11398108	11410079	11559058	11455748	0.78	cps
Scandium	45-2	213496	212438	228890	218275	4.22	cps
Selenium	82-1	55366	55895	54928	55397	0.87	cps
Selenium	77-2	943	900	910	918	2.47	cps
Selenium	78-2	3027	3117	3014	3053	1.84	cps
Silicon	28-1	554226	550780	552639	552548	0.31	cps
Silver	107-1	1050884	1069870	1074616	1065123	1.18	cps
Silver	109-1	1007449	1037228	1030352	1025010	1.52	cps
Sodium	23-2	1140124	1118252	1152889	1137088	1.54	cps
Strontium	86-1	1950	1910	2004	1955	2.40	cps
Strontium	88-1	12599	12456	12596	12550	0.65	cps
Sulfur	34-1	738407	733816	725227	732483	0.91	cps
Terbium	159-1	21824455	21755641	21889351	21823149	0.31	cps
Terbium	159-2	6911662	6862518	7310466	7028215	3.50	cps
Thallium	203-1	3750590	3827288	3805202	3794360	1.04	cps
Thallium	205-1	8838929	8960244	8844571	8881248	0.77	cps
Tin	118-1	3234	3277	3124	3212	2.46	cps
Titanium	47-1	877	833	920	877	4.94	cps
Uranium	238-1	67	77	43	62	27.50	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICV001	Instrumnet Name :	P8
Client Sample ID :	ICV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:14:28	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	293555	291640	291945	292380	0.35	cps
Ytterbium	172-1	97	117	120	111	11.36	cps
Ytterbium	172-2	60	50	37	49	23.94	cps
Ytterbium	176-1	2150	2210	2087	2149	2.87	cps
Ytterbium	176-2	453	447	477	459	3.43	cps
Yttrium	89-1	28637313	29026467	28682277	28782019	0.74	cps
Yttrium	89-2	1963905	1952442	2043400	1986582	2.49	cps
Zinc	66-2	118110	116944	117304	117453	0.51	cps
Zirconium	90-1	1347	1237	1217	1267	5.53	cps
Zirconium	91-1	847	980	890	906	7.51	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	40	93	120	84	48.24	cps
Antimony	121-1	890	677	627	731	19.13	cps
Arsenic	75-2	10	3	0	4	114.60	cps
Barium	135-1	210	203	153	189	16.40	cps
Barium	137-1	327	317	283	309	7.34	cps
Beryllium	9-1	592	576	575	581	1.68	cps
Bismuth	209-1	13866471	13855526	13811082	13844360	0.21	cps
Bismuth	209-2	5339440	5369756	5397077	5368758	0.54	cps
Bromine	81-1	4184	4041	3911	4045	3.38	cps
Cadmium	108-1	47	33	40	40	16.68	cps
Cadmium	106-1	7649	7836	7752	7746	1.21	cps
Cadmium	111-1	5385	5508	5449	5447	1.13	cps
Calcium	43-1	430	440	433	434	1.17	cps
Calcium	44-1	26982	27219	26795	26999	0.79	cps
Carbon	12-1	3599381	3479975	3480479	3519945	1.95	cps
Carbon	12-2	22981	23329	23278	23196	0.81	cps
Chlorine	35-1	152514	150510	150459	151161	0.78	cps
Chlorine	35-2	563	567	637	589	7.03	cps
Chromium	52-2	847	940	1047	944	10.60	cps
Cobalt	59-2	137	130	107	124	12.66	cps
Copper	63-2	2444	2460	2287	2397	3.99	cps
Dysprosium	156-1	40	47	57	48	17.56	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	83	90	87	87	3.85	cps
Erbium	164-2	20	20	23	21	9.11	cps
Gadolinium	160-1	120	127	160	136	15.81	cps
Gadolinium	160-2	20	17	27	21	24.12	cps
Holmium	165-1	21262582	21440733	21302749	21335355	0.44	cps
Holmium	165-2	7043003	7124555	7048082	7071880	0.65	cps
Indium	115-1	16384240	16402013	16688185	16491479	1.03	cps
Indium	115-2	1569341	1568556	1548931	1562276	0.74	cps
Iron	54-2	507	413	430	450	11.06	cps
Iron	56-2	5871	5831	5681	5795	1.73	cps
Iron	57-2	137	200	153	163	20.10	cps
Krypton	83-1	277	310	267	284	7.98	cps
Lead	206-1	2704	2607	2570	2627	2.62	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2337	2220	2254	2270	2.65	cps
Lead	208-1	10715	10338	10332	10462	2.10	cps
Lithium	6-1	8211609	8423012	8704913	8446511	2.93	cps
Magnesium	24-2	2000	2230	2104	2111	5.46	cps
Manganese	55-2	167	167	200	178	10.82	cps
Molybdenum	94-1	403	450	373	409	9.45	cps
Molybdenum	95-1	183	143	147	158	14.07	cps
Molybdenum	96-1	273	307	213	264	17.88	cps
Molybdenum	97-1	103	113	93	103	9.68	cps
Molybdenum	98-1	233	227	300	253	16.01	cps
Neodymium	150-1	33	27	20	27	24.99	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	777	770	760	769	1.09	cps
Phosphorus	31-2	107	103	147	119	20.28	cps
Potassium	39-2	13343	12999	13310	13217	1.43	cps
Rhodium	103-1	15648399	15666978	15732374	15682584	0.28	cps
Rhodium	103-2	5783925	5929793	5856438	5856719	1.25	cps
Scandium	45-1	11363737	11291164	11335612	11330171	0.32	cps
Scandium	45-2	215153	212781	214557	214164	0.58	cps
Selenium	82-1	-13	-70	0	-28	-133.81	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	17	10	11	45.82	cps
Silicon	28-1	535698	534755	532595	534349	0.30	cps
Silver	107-1	637	510	473	540	15.87	cps
Silver	109-1	467	427	400	431	7.78	cps
Sodium	23-2	76258	75832	76117	76069	0.28	cps
Strontium	86-1	587	507	493	529	9.54	cps
Strontium	88-1	787	697	780	754	6.65	cps
Sulfur	34-1	731419	731716	729568	730901	0.16	cps
Terbium	159-1	22127847	21696784	21953776	21926136	0.99	cps
Terbium	159-2	6930038	6810966	6924162	6888389	0.97	cps
Thallium	203-1	647	557	573	592	8.09	cps
Thallium	205-1	1720	1460	1390	1523	11.42	cps
Tin	118-1	3374	3200	2960	3178	6.53	cps
Titanium	47-1	213	177	257	216	18.58	cps
Uranium	238-1	23	30	33	29	17.63	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICB001	Instrumnet Name :	P8
Client Sample ID :	ICB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:18:19	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3	7	23	11	96.43	cps
Ytterbium	172-1	143	80	130	118	28.35	cps
Ytterbium	172-2	37	40	57	44	24.11	cps
Ytterbium	176-1	2190	2164	2100	2151	2.15	cps
Ytterbium	176-2	477	410	470	452	8.12	cps
Yttrium	89-1	28493602	28703841	28284033	28493825	0.74	cps
Yttrium	89-2	1964436	1946652	1959011	1956700	0.47	cps
Zinc	66-2	243	253	237	244	3.43	cps
Zirconium	90-1	923	1003	917	948	5.09	cps
Zirconium	91-1	227	190	163	193	16.45	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6326829	6445087	6393625	6388514	0.93	cps
Antimony	121-1	18970	18983	19848	19267	2.61	cps
Arsenic	75-2	130	80	70	93	34.44	cps
Barium	135-1	5765	5911	6045	5907	2.37	cps
Barium	137-1	10091	10407	10648	10382	2.69	cps
Beryllium	9-1	2077	2044	2017	2046	1.47	cps
Bismuth	209-1	12739411	12643194	12701436	12694681	0.38	cps
Bismuth	209-2	4728762	4712323	4760418	4733834	0.52	cps
Bromine	81-1	5875	6318	6295	6163	4.05	cps
Cadmium	108-1	6171	5751	6108	6010	3.77	cps
Cadmium	106-1	7469	7242	7169	7293	2.15	cps
Cadmium	111-1	8127	7942	7734	7934	2.48	cps
Calcium	43-1	5511796	5464248	5437834	5471293	0.69	cps
Calcium	44-1	89703955	89346545	87803715	88951405	1.14	cps
Carbon	12-1	44215274	45325804	44859429	44800169	1.24	cps
Carbon	12-2	301582	300248	297340	299723	0.72	cps
Chlorine	35-1	76028824	82473160	85490069	81330684	5.94	cps
Chlorine	35-2	348177	357410	355414	353667	1.37	cps
Chromium	52-2	70462	70630	70747	70613	0.20	cps
Cobalt	59-2	7742	7762	7725	7743	0.24	cps
Copper	63-2	44128	43881	44362	44124	0.55	cps
Dysprosium	156-1	110	120	120	117	4.95	cps
Dysprosium	156-2	27	17	20	21	24.12	cps
Erbium	164-1	170	147	163	160	7.51	cps
Erbium	164-2	63	60	70	64	7.90	cps
Gadolinium	160-1	180	150	210	180	16.67	cps
Gadolinium	160-2	53	47	50	50	6.66	cps
Holmium	165-1	21140686	20995245	20846039	20993990	0.70	cps
Holmium	165-2	6743079	6740290	6845301	6776223	0.88	cps
Indium	115-1	15167803	15189073	15414918	15257265	0.90	cps
Indium	115-2	1362254	1363606	1379101	1368320	0.68	cps
Iron	54-2	14576362	14321914	14447220	14448499	0.88	cps
Iron	56-2	270071663	266229756	267557929	267953116	0.73	cps
Iron	57-2	6705645	6792480	6702684	6733603	0.76	cps
Krypton	83-1	293	260	340	298	13.49	cps
Lead	206-1	69059	67860	66469	67796	1.91	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	54628	53098	52643	53456	1.95	cps
Lead	208-1	257386	253253	249924	253521	1.47	cps
Lithium	6-1	7691971	7769554	7566206	7675910	1.34	cps
Magnesium	24-2	23618835	23923515	23569477	23703942	0.81	cps
Manganese	55-2	11131	11121	11321	11191	1.01	cps
Molybdenum	94-1	9529655	9527034	9585654	9547448	0.35	cps
Molybdenum	95-1	16816431	16729731	16833231	16793131	0.33	cps
Molybdenum	96-1	18150195	17972573	18265210	18129326	0.81	cps
Molybdenum	97-1	10390009	10454367	10410162	10418179	0.32	cps
Molybdenum	98-1	27324768	27502257	27791233	27539419	0.85	cps
Neodymium	150-1	83	77	80	80	4.16	cps
Neodymium	150-2	23	10	20	18	39.03	cps
Nickel	60-2	10227	10180	10534	10314	1.86	cps
Phosphorus	31-2	328572	326870	326654	327365	0.32	cps
Potassium	39-2	13333529	13201241	13132798	13222522	0.77	cps
Rhodium	103-1	13816907	13598156	13683905	13699656	0.80	cps
Rhodium	103-2	5157761	5166093	5217971	5180608	0.63	cps
Scandium	45-1	10838207	10696400	10474680	10669762	1.72	cps
Scandium	45-2	196052	194552	200083	196896	1.45	cps
Selenium	82-1	23	60	7	30	90.97	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	0	7	86.60	cps
Silicon	28-1	880436	875643	876485	877522	0.29	cps
Silver	107-1	1673	1233	1083	1330	23.06	cps
Silver	109-1	1513	1040	897	1150	28.06	cps
Sodium	23-2	49852854	49886519	50131659	49957011	0.30	cps
Strontium	86-1	182164	182950	184488	183201	0.65	cps
Strontium	88-1	1659070	1613977	1616954	1630000	1.55	cps
Sulfur	34-1	7652186	7539235	7665725	7619049	0.91	cps
Terbium	159-1	21271088	21103671	21265141	21213300	0.45	cps
Terbium	159-2	6590122	6438294	6551964	6526793	1.21	cps
Thallium	203-1	1907	2044	1843	1931	5.29	cps
Thallium	205-1	4661	4524	4708	4631	2.06	cps
Tin	118-1	5678	6021	6171	5957	4.25	cps
Titanium	47-1	5469993	5348485	5231277	5349918	2.23	cps
Uranium	238-1	1007	957	1107	1023	7.46	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSA001	Instrumnet Name :	P8
Client Sample ID :	ICSA001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:21:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	390	353	430	391	9.80	cps
Ytterbium	172-1	113	143	143	133	12.99	cps
Ytterbium	172-2	63	47	53	54	15.40	cps
Ytterbium	176-1	1907	2094	1903	1968	5.53	cps
Ytterbium	176-2	330	343	297	323	7.43	cps
Yttrium	89-1	26796778	27108862	27066133	26990591	0.63	cps
Yttrium	89-2	1798808	1788423	1801383	1796205	0.38	cps
Zinc	66-2	6608	6442	6402	6484	1.69	cps
Zirconium	90-1	1223	1373	1183	1260	7.95	cps
Zirconium	91-1	257	260	287	268	6.14	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6487335	6466366	6291495	6415065	1.68	cps
Antimony	121-1	362004	362362	360648	361671	0.25	cps
Arsenic	75-2	6545	6865	6525	6645	2.87	cps
Barium	135-1	88121	88728	89272	88707	0.65	cps
Barium	137-1	153847	155774	157825	155816	1.28	cps
Beryllium	9-1	118184	119495	117789	118489	0.75	cps
Bismuth	209-1	12770175	12757608	12584619	12704134	0.82	cps
Bismuth	209-2	4841767	4834060	4683721	4786516	1.86	cps
Bromine	81-1	5611	5551	5781	5648	2.11	cps
Cadmium	108-1	11508	11265	11338	11370	1.10	cps
Cadmium	106-1	14668	14665	14331	14554	1.33	cps
Cadmium	111-1	92371	91422	89829	91208	1.41	cps
Calcium	43-1	5480605	5617704	5634326	5577545	1.51	cps
Calcium	44-1	90428239	91113089	89964699	90502009	0.64	cps
Carbon	12-1	46078734	46798398	48036578	46971237	2.11	cps
Carbon	12-2	317671	316621	317490	317261	0.18	cps
Chlorine	35-1	80240965	87632915	90207259	86027046	6.01	cps
Chlorine	35-2	365686	369777	374154	369872	1.15	cps
Chromium	52-2	141599	142084	139409	141031	1.01	cps
Cobalt	59-2	142347	140765	142407	141839	0.66	cps
Copper	63-2	148069	148052	148901	148341	0.33	cps
Dysprosium	156-1	150	107	70	109	36.78	cps
Dysprosium	156-2	33	33	27	31	12.36	cps
Erbium	164-1	207	197	153	186	15.28	cps
Erbium	164-2	57	23	43	41	40.82	cps
Gadolinium	160-1	187	197	200	194	3.57	cps
Gadolinium	160-2	47	43	47	46	4.23	cps
Holmium	165-1	20957209	20876784	20732298	20855431	0.55	cps
Holmium	165-2	6660603	6773483	6691525	6708537	0.87	cps
Indium	115-1	15473457	15409620	15308474	15397183	0.54	cps
Indium	115-2	1357906	1368297	1358663	1361622	0.43	cps
Iron	54-2	14738482	14869716	14749465	14785888	0.49	cps
Iron	56-2	274479216	273753023	270267056	272833098	0.83	cps
Iron	57-2	6819918	6776790	6781537	6792748	0.35	cps
Krypton	83-1	273	260	313	282	9.83	cps
Lead	206-1	348689	349009	351866	349855	0.50	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	287033	292505	293521	291020	1.20	cps
Lead	208-1	1350369	1354114	1355816	1353433	0.21	cps
Lithium	6-1	7711523	7922122	7739151	7790932	1.47	cps
Magnesium	24-2	23821065	23490282	23526668	23612672	0.77	cps
Manganese	55-2	38946	39672	38993	39204	1.04	cps
Molybdenum	94-1	9626481	9573603	9600115	9600066	0.28	cps
Molybdenum	95-1	17010704	16901887	17134046	17015546	0.68	cps
Molybdenum	96-1	18444526	18209314	18401148	18351663	0.68	cps
Molybdenum	97-1	10685275	10512907	10629336	10609173	0.83	cps
Molybdenum	98-1	28086260	27830539	28251449	28056082	0.76	cps
Neodymium	150-1	93	93	97	94	2.04	cps
Neodymium	150-2	13	27	30	23	37.81	cps
Nickel	60-2	47907	48255	48248	48137	0.41	cps
Phosphorus	31-2	326288	328484	328176	327649	0.36	cps
Potassium	39-2	13383599	13450485	13310878	13381654	0.52	cps
Rhodium	103-1	14074221	13889273	14028914	13997469	0.69	cps
Rhodium	103-2	5182773	5163537	5275818	5207376	1.15	cps
Scandium	45-1	10968057	10933714	10805604	10902458	0.79	cps
Scandium	45-2	196498	197051	198768	197439	0.60	cps
Selenium	82-1	5194	5451	5481	5376	2.93	cps
Selenium	77-2	87	77	80	81	6.28	cps
Selenium	78-2	290	293	237	273	11.63	cps
Silicon	28-1	920170	926854	929043	925356	0.50	cps
Silver	107-1	394686	398578	398558	397274	0.56	cps
Silver	109-1	380894	384134	384352	383127	0.51	cps
Sodium	23-2	51567851	50857574	50157751	50861059	1.39	cps
Strontium	86-1	181999	185618	184784	184134	1.03	cps
Strontium	88-1	1682141	1688218	1665826	1678728	0.69	cps
Sulfur	34-1	7607062	7819871	7806581	7744504	1.54	cps
Terbium	159-1	21493501	21517998	21626394	21545964	0.33	cps
Terbium	159-2	6480430	6415063	6470868	6455454	0.55	cps
Thallium	203-1	346884	354204	353206	351432	1.13	cps
Thallium	205-1	835106	843217	841453	839925	0.51	cps
Tin	118-1	5388	5118	5024	5177	3.65	cps
Titanium	47-1	5347606	5429090	5375721	5384139	0.77	cps
Uranium	238-1	960	1023	977	987	3.33	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	ICSAB001	Instrumnet Name :	P8
Client Sample ID :	ICSAB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:29:41	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	55775	54888	55504	55389	0.82	cps
Ytterbium	172-1	137	147	163	149	9.05	cps
Ytterbium	172-2	83	43	50	59	36.39	cps
Ytterbium	176-1	2000	1860	2114	1991	6.37	cps
Ytterbium	176-2	320	347	377	348	8.15	cps
Yttrium	89-1	27822364	27561219	27533259	27638947	0.58	cps
Yttrium	89-2	1816795	1821368	1796040	1811401	0.75	cps
Zinc	66-2	17374	17464	17187	17342	0.81	cps
Zirconium	90-1	1360	1230	1363	1318	5.77	cps
Zirconium	91-1	323	347	370	347	6.73	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3431148	3440174	3326180	3399167	1.86	cps
Antimony	121-1	8084554	7998387	8131291	8071411	0.84	cps
Arsenic	75-2	152350	154567	153405	153441	0.72	cps
Barium	135-1	10099774	10011323	9941426	10017507	0.79	cps
Barium	137-1	17456647	17362452	17227366	17348822	0.66	cps
Beryllium	9-1	2809524	2744871	2717116	2757170	1.72	cps
Bismuth	209-1	12004046	12133431	12144864	12094114	0.65	cps
Bismuth	209-2	4592911	4543770	4537916	4558199	0.66	cps
Bromine	81-1	4364	4414	4607	4462	2.88	cps
Cadmium	108-1	155773	159393	155344	156837	1.42	cps
Cadmium	106-1	225852	224949	225691	225497	0.21	cps
Cadmium	111-1	2030364	2013502	1977053	2006973	1.36	cps
Calcium	43-1	13225464	13243944	13314009	13261139	0.35	cps
Calcium	44-1	216144877	214784517	216016517	215648637	0.35	cps
Carbon	12-1	4873513	5085226	5071805	5010181	2.37	cps
Carbon	12-2	39647	40613	41174	40478	1.91	cps
Chlorine	35-1	5338521	4965218	4646162	4983300	6.95	cps
Chlorine	35-2	15685	14724	13823	14744	6.31	cps
Chromium	52-2	1744852	1779443	1749111	1757802	1.07	cps
Cobalt	59-2	3272073	3270173	3214969	3252405	1.00	cps
Copper	63-2	24127232	24049772	24094305	24090437	0.16	cps
Dysprosium	156-1	487	443	450	460	5.07	cps
Dysprosium	156-2	83	93	130	102	24.04	cps
Erbium	164-1	517	497	487	500	3.05	cps
Erbium	164-2	170	167	133	157	12.94	cps
Gadolinium	160-1	397	433	377	402	7.15	cps
Gadolinium	160-2	170	147	117	144	18.51	cps
Holmium	165-1	19644254	20141149	20290520	20025308	1.69	cps
Holmium	165-2	6659052	6641245	6592646	6630981	0.52	cps
Indium	115-1	14312412	14444500	14466066	14407660	0.58	cps
Indium	115-2	1332299	1310724	1321207	1321410	0.82	cps
Iron	54-2	17645936	17467999	17473023	17528986	0.58	cps
Iron	56-2	324004769	320511275	321528389	322014811	0.56	cps
Iron	57-2	8082358	8117938	8017473	8072590	0.63	cps
Krypton	83-1	347	387	283	339	15.38	cps
Lead	206-1	33482072	33598756	33516717	33532515	0.18	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28871950	28950865	28996985	28939933	0.22	cps
Lead	208-1	133167802	133859805	133888301	133638636	0.31	cps
Lithium	6-1	7471898	7294143	7502979	7423007	1.52	cps
Magnesium	24-2	60673236	60520837	59514464	60236179	1.05	cps
Manganese	55-2	7030701	7031917	6981898	7014839	0.41	cps
Molybdenum	94-1	28486771	29008072	28225745	28573530	1.39	cps
Molybdenum	95-1	41031614	41621365	40775849	41142943	1.05	cps
Molybdenum	96-1	45114553	46015473	45444854	45524960	1.00	cps
Molybdenum	97-1	25712285	25721924	25529500	25654570	0.42	cps
Molybdenum	98-1	68194726	67028379	66954144	67392416	1.03	cps
Neodymium	150-1	740	663	690	698	5.58	cps
Neodymium	150-2	50	27	67	48	42.05	cps
Nickel	60-2	841351	842941	837471	840588	0.33	cps
Phosphorus	31-2	32029	31691	31474	31731	0.88	cps
Potassium	39-2	16312431	16423855	16352300	16362862	0.35	cps
Rhodium	103-1	13058693	12915507	13117244	13030481	0.80	cps
Rhodium	103-2	5057470	4955587	4970166	4994408	1.10	cps
Scandium	45-1	10493627	10593596	10503367	10530197	0.52	cps
Scandium	45-2	199038	199312	198004	198785	0.35	cps
Selenium	82-1	117533	118992	119379	118635	0.82	cps
Selenium	77-2	1840	1927	1870	1879	2.34	cps
Selenium	78-2	6362	6572	6425	6453	1.67	cps
Silicon	28-1	7126127	7137767	7080418	7114771	0.43	cps
Silver	107-1	9729139	9801812	9853448	9794800	0.64	cps
Silver	109-1	9289747	9373417	9302184	9321783	0.48	cps
Sodium	23-2	121655402	121061505	119408982	120708629	0.96	cps
Strontium	86-1	2696544	2689751	2692624	2692973	0.13	cps
Strontium	88-1	22763539	23061047	22819543	22881376	0.69	cps
Sulfur	34-1	1379318	1409880	1419126	1402775	1.49	cps
Terbium	159-1	20448799	20486116	21019626	20651514	1.55	cps
Terbium	159-2	6352416	6423458	6342397	6372757	0.69	cps
Thallium	203-1	8279910	8261185	8232531	8257875	0.29	cps
Thallium	205-1	19734270	19583425	19729893	19682529	0.44	cps
Tin	118-1	6520558	6496209	6406764	6474510	0.93	cps
Titanium	47-1	12522209	12707374	12449561	12559714	1.06	cps
Uranium	238-1	28270806	28673611	28566975	28503797	0.73	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV001	Instrumnet Name :	P8
Client Sample ID :	CCV001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:32:48	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1384507	1414668	1372208	1390461	1.57	cps
Ytterbium	172-1	540	507	500	516	4.16	cps
Ytterbium	172-2	227	170	177	191	16.21	cps
Ytterbium	176-1	42428	42465	43224	42705	1.05	cps
Ytterbium	176-2	13817	13430	13107	13451	2.65	cps
Yttrium	89-1	26243400	26493905	26302495	26346600	0.50	cps
Yttrium	89-2	1812984	1801412	1788068	1800822	0.69	cps
Zinc	66-2	2643009	2606338	2610426	2619924	0.77	cps
Zirconium	90-1	14398670	14429980	14370464	14399705	0.21	cps
Zirconium	91-1	3193572	3262369	3207273	3221071	1.13	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177	153	137	156	12.92	cps
Antimony	121-1	2674	2314	2007	2331	14.32	cps
Arsenic	75-2	7	10	10	9	21.63	cps
Barium	135-1	910	740	783	811	10.89	cps
Barium	137-1	1793	1193	1207	1398	24.51	cps
Beryllium	9-1	1384	1186	1092	1221	12.18	cps
Bismuth	209-1	14100323	14129307	13912030	14047220	0.84	cps
Bismuth	209-2	5287600	5349513	5303783	5313632	0.60	cps
Bromine	81-1	4224	4314	4051	4196	3.19	cps
Cadmium	108-1	40	40	43	41	4.68	cps
Cadmium	106-1	7816	7782	7689	7762	0.85	cps
Cadmium	111-1	5590	5556	5459	5535	1.23	cps
Calcium	43-1	1037	810	843	897	13.65	cps
Calcium	44-1	36878	35013	34832	35574	3.18	cps
Carbon	12-1	3818314	3797492	3749356	3788387	0.93	cps
Carbon	12-2	24397	24237	23786	24140	1.31	cps
Chlorine	35-1	2499743	2395288	2222221	2372417	5.91	cps
Chlorine	35-2	7922	7882	7369	7724	4.00	cps
Chromium	52-2	820	793	763	792	3.58	cps
Cobalt	59-2	210	227	220	219	3.83	cps
Copper	63-2	3257	2877	2880	3005	7.27	cps
Dysprosium	156-1	307	260	220	262	16.54	cps
Dysprosium	156-2	3	10	13	9	57.30	cps
Erbium	164-1	117	127	67	103	31.11	cps
Erbium	164-2	33	40	33	36	10.83	cps
Gadolinium	160-1	153	90	143	129	26.42	cps
Gadolinium	160-2	30	30	10	23	49.49	cps
Holmium	165-1	21509735	21123496	21337884	21323705	0.91	cps
Holmium	165-2	7159983	7074848	7065076	7099969	0.74	cps
Indium	115-1	16792885	16606714	16505641	16635080	0.88	cps
Indium	115-2	1506151	1565574	1506835	1526187	2.24	cps
Iron	54-2	950	863	893	902	4.88	cps
Iron	56-2	14298	13477	13153	13642	4.33	cps
Iron	57-2	343	330	330	334	2.30	cps
Krypton	83-1	267	283	320	290	9.41	cps
Lead	206-1	6108	5294	5361	5588	8.08	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5158	4678	4764	4867	5.26	cps
Lead	208-1	23962	21864	21434	22420	6.03	cps
Lithium	6-1	8543893	8234302	8339763	8372653	1.88	cps
Magnesium	24-2	2284	2247	2230	2254	1.21	cps
Manganese	55-2	327	277	290	298	8.69	cps
Molybdenum	94-1	1827	1440	1370	1546	15.91	cps
Molybdenum	95-1	1997	1597	1387	1660	18.67	cps
Molybdenum	96-1	2344	1833	1707	1961	17.19	cps
Molybdenum	97-1	1240	933	900	1024	18.30	cps
Molybdenum	98-1	3330	2854	2250	2811	19.26	cps
Neodymium	150-1	20	27	10	19	44.42	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	730	730	720	727	0.79	cps
Phosphorus	31-2	120	87	97	101	16.92	cps
Potassium	39-2	19907	19333	19149	19463	2.03	cps
Rhodium	103-1	15831522	15603891	15551546	15662320	0.95	cps
Rhodium	103-2	5955977	5964623	5836765	5919122	1.21	cps
Scandium	45-1	11741074	11502554	11464632	11569420	1.30	cps
Scandium	45-2	211902	211053	208026	210327	0.97	cps
Selenium	82-1	7	-33	-23	-17	-124.91	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	7	3	7	50.03	cps
Silicon	28-1	563359	561594	554341	559765	0.85	cps
Silver	107-1	1517	1310	1070	1299	17.21	cps
Silver	109-1	1333	1190	1030	1185	12.81	cps
Sodium	23-2	112630	109369	108378	110126	2.02	cps
Strontium	86-1	560	560	523	548	3.86	cps
Strontium	88-1	1380	983	1117	1160	17.40	cps
Sulfur	34-1	700776	708160	698337	702424	0.73	cps
Terbium	159-1	22237186	21999433	21742750	21993123	1.12	cps
Terbium	159-2	6810929	6950786	6821222	6860979	1.14	cps
Thallium	203-1	2037	1633	1580	1750	14.27	cps
Thallium	205-1	4618	4411	3967	4332	7.67	cps
Tin	118-1	3470	3531	3430	3477	1.45	cps
Titanium	47-1	573	573	600	582	2.64	cps
Uranium	238-1	960	670	523	718	30.96	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB001	Instrumnet Name :	P8
Client Sample ID :	CCB001	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:35:35	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	30	27	13	23	37.81	cps
Ytterbium	172-1	117	133	87	112	21.07	cps
Ytterbium	172-2	60	37	33	43	33.53	cps
Ytterbium	176-1	2157	2030	2084	2090	3.04	cps
Ytterbium	176-2	343	360	420	374	10.77	cps
Yttrium	89-1	28899692	28602725	28341908	28614775	0.98	cps
Yttrium	89-2	1919363	1945570	1907109	1924014	1.02	cps
Zinc	66-2	380	293	287	320	16.27	cps
Zirconium	90-1	1550	1447	1393	1463	5.44	cps
Zirconium	91-1	313	313	253	293	11.81	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	143	133	131	10.28	cps
Antimony	121-1	683	647	593	641	7.06	cps
Arsenic	75-2	13	17	13	14	13.35	cps
Barium	135-1	390	417	443	417	6.40	cps
Barium	137-1	693	643	607	648	6.72	cps
Beryllium	9-1	737	670	665	691	5.86	cps
Bismuth	209-1	13936109	13839363	14453591	14076354	2.35	cps
Bismuth	209-2	5171263	5368850	5398890	5313001	2.33	cps
Bromine	81-1	4417	4414	4557	4463	1.83	cps
Cadmium	108-1	30	50	47	42	25.38	cps
Cadmium	106-1	7909	7582	7912	7801	2.43	cps
Cadmium	111-1	5565	5352	5589	5502	2.37	cps
Calcium	43-1	557	597	557	570	4.05	cps
Calcium	44-1	30165	29747	29965	29959	0.70	cps
Carbon	12-1	3305156	3207307	3142264	3218242	2.55	cps
Carbon	12-2	20765	20725	19990	20493	2.13	cps
Chlorine	35-1	1478061	1448451	1424477	1450330	1.85	cps
Chlorine	35-2	5224	5341	5211	5259	1.36	cps
Chromium	52-2	750	883	820	818	8.16	cps
Cobalt	59-2	153	190	180	174	10.86	cps
Copper	63-2	2810	2947	2997	2918	3.31	cps
Dysprosium	156-1	157	153	137	149	7.20	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	120	100	93	104	13.29	cps
Erbium	164-2	37	47	40	41	12.39	cps
Gadolinium	160-1	90	90	110	97	11.95	cps
Gadolinium	160-2	27	13	20	20	33.35	cps
Holmium	165-1	21034824	21752645	21776264	21521244	1.96	cps
Holmium	165-2	6844082	7284316	7129930	7086109	3.15	cps
Indium	115-1	16218946	16347571	17327500	16631339	3.65	cps
Indium	115-2	1502706	1593072	1578376	1558051	3.11	cps
Iron	54-2	597	673	717	662	9.18	cps
Iron	56-2	10527	9827	10481	10278	3.81	cps
Iron	57-2	250	217	297	254	15.79	cps
Krypton	83-1	277	330	313	307	8.90	cps
Lead	206-1	4291	4197	3894	4127	5.03	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3521	3641	3507	3556	2.07	cps
Lead	208-1	16905	16104	16034	16348	2.96	cps
Lithium	6-1	8232413	8379650	8506072	8372712	1.64	cps
Magnesium	24-2	2030	1723	1983	1912	8.64	cps
Manganese	55-2	227	197	243	222	10.64	cps
Molybdenum	94-1	750	697	697	714	4.31	cps
Molybdenum	95-1	587	567	570	574	1.87	cps
Molybdenum	96-1	747	617	660	674	9.81	cps
Molybdenum	97-1	383	303	273	320	17.77	cps
Molybdenum	98-1	877	817	820	838	4.02	cps
Neodymium	150-1	10	13	13	12	15.73	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	743	703	713	720	2.89	cps
Phosphorus	31-2	113	123	133	123	8.11	cps
Potassium	39-2	17644	17501	17214	17453	1.26	cps
Rhodium	103-1	15544003	15384116	16058684	15662268	2.25	cps
Rhodium	103-2	5733639	5951619	6017307	5900855	2.52	cps
Scandium	45-1	11297479	11460941	11637835	11465418	1.48	cps
Scandium	45-2	206201	215746	211054	211000	2.26	cps
Selenium	82-1	70	27	10	36	87.12	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	0	7	20	9	114.55	cps
Silicon	28-1	539006	544044	537077	540042	0.67	cps
Silver	107-1	520	557	573	550	4.96	cps
Silver	109-1	337	417	383	379	10.61	cps
Sodium	23-2	102949	102785	102245	102660	0.36	cps
Strontium	86-1	643	533	563	580	9.80	cps
Strontium	88-1	887	870	903	887	1.88	cps
Sulfur	34-1	709022	710820	713876	711240	0.34	cps
Terbium	159-1	21906141	21921119	22279580	22035613	0.96	cps
Terbium	159-2	6651783	6899599	6739979	6763787	1.86	cps
Thallium	203-1	1117	1063	1013	1065	4.86	cps
Thallium	205-1	2757	2597	2520	2625	4.60	cps
Tin	118-1	3137	3284	3344	3255	3.27	cps
Titanium	47-1	987	1007	1030	1008	2.15	cps
Uranium	238-1	197	173	120	163	24.06	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BL	Instrumnet Name :	P8
Client Sample ID :	PBW569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:38:54	DataFile Name :	019CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10	17	17	14	26.66	cps
Ytterbium	172-1	83	120	143	116	26.18	cps
Ytterbium	172-2	47	37	33	39	17.85	cps
Ytterbium	176-1	1927	1853	2067	1949	5.56	cps
Ytterbium	176-2	340	373	367	360	4.90	cps
Yttrium	89-1	28748282	28734105	29726732	29069707	1.96	cps
Yttrium	89-2	1902633	2015681	1957967	1958760	2.89	cps
Zinc	66-2	353	377	353	361	3.73	cps
Zirconium	90-1	1103	1137	1047	1096	4.15	cps
Zirconium	91-1	227	177	183	196	13.88	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3130	2760	2910	2934	6.34	cps
Antimony	121-1	70249	71094	71673	71005	1.01	cps
Arsenic	75-2	747	753	673	724	6.13	cps
Barium	135-1	84180	84243	82931	83785	0.88	cps
Barium	137-1	147222	146466	147329	147005	0.32	cps
Beryllium	9-1	12984	12853	12999	12945	0.62	cps
Bismuth	209-1	14192631	14308746	14128838	14210072	0.64	cps
Bismuth	209-2	5434627	5337115	5368830	5380190	0.92	cps
Bromine	81-1	4221	4487	4317	4342	3.11	cps
Cadmium	108-1	707	693	780	727	6.42	cps
Cadmium	106-1	8953	9136	8770	8953	2.05	cps
Cadmium	111-1	14932	15033	14429	14798	2.19	cps
Calcium	43-1	58619	58281	58683	58527	0.37	cps
Calcium	44-1	957405	969211	966844	964487	0.65	cps
Carbon	12-1	3347097	3333800	3234332	3305076	1.86	cps
Carbon	12-2	21633	21996	22223	21951	1.36	cps
Chlorine	35-1	2545901	2763276	2842594	2717257	5.65	cps
Chlorine	35-2	11561	11341	11254	11386	1.39	cps
Chromium	52-2	15589	15682	15235	15502	1.52	cps
Cobalt	59-2	15005	14838	15235	15026	1.33	cps
Copper	63-2	27550	27867	28068	27828	0.94	cps
Dysprosium	156-1	113	130	150	131	14.00	cps
Dysprosium	156-2	3	17	3	8	99.04	cps
Erbium	164-1	123	103	93	107	14.33	cps
Erbium	164-2	33	33	27	31	12.36	cps
Gadolinium	160-1	140	123	137	133	6.61	cps
Gadolinium	160-2	30	13	7	17	72.11	cps
Holmium	165-1	21648105	21975278	21458511	21693965	1.21	cps
Holmium	165-2	7250032	7139702	7155421	7181718	0.83	cps
Indium	115-1	17106620	17054848	16789144	16983537	1.00	cps
Indium	115-2	1599230	1586593	1536438	1574087	2.11	cps
Iron	54-2	63741	63524	62640	63301	0.92	cps
Iron	56-2	1166822	1159286	1150638	1158915	0.70	cps
Iron	57-2	28272	28819	29133	28741	1.52	cps
Krypton	83-1	250	323	267	280	13.73	cps
Lead	206-1	33122	33086	32675	32961	0.75	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28167	28431	29139	28579	1.76	cps
Lead	208-1	130218	131437	132331	131329	0.81	cps
Lithium	6-1	8419120	8593098	8489567	8500595	1.03	cps
Magnesium	24-2	253294	255797	252244	253779	0.72	cps
Manganese	55-2	3364	3394	3227	3328	2.67	cps
Molybdenum	94-1	70618	72246	72052	71639	1.24	cps
Molybdenum	95-1	86138	86437	86849	86474	0.41	cps
Molybdenum	96-1	96029	98291	98439	97586	1.38	cps
Molybdenum	97-1	54450	54359	55504	54771	1.16	cps
Molybdenum	98-1	141190	142075	141900	141722	0.33	cps
Neodymium	150-1	20	10	43	24	69.97	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	4758	5048	4838	4881	3.07	cps
Phosphorus	31-2	267	237	277	260	8.01	cps
Potassium	39-2	160421	155096	159651	158390	1.82	cps
Rhodium	103-1	15873666	16313826	15913099	16033530	1.52	cps
Rhodium	103-2	6125632	6118035	6061957	6101875	0.57	cps
Scandium	45-1	11551872	11736176	11678831	11655626	0.81	cps
Scandium	45-2	220848	218469	215443	218253	1.24	cps
Selenium	82-1	2727	2804	2844	2791	2.12	cps
Selenium	77-2	57	43	57	52	14.75	cps
Selenium	78-2	97	163	140	133	25.37	cps
Silicon	28-1	862702	865543	860869	863038	0.27	cps
Silver	107-1	43950	44388	45123	44487	1.33	cps
Silver	109-1	41830	42897	41893	42207	1.42	cps
Sodium	23-2	613124	613678	612475	613092	0.10	cps
Strontium	86-1	11705	12052	11969	11908	1.52	cps
Strontium	88-1	98169	98995	98585	98583	0.42	cps
Sulfur	34-1	737741	741766	739292	739600	0.27	cps
Terbium	159-1	22610117	22437351	22375101	22474190	0.54	cps
Terbium	159-2	7026627	6920439	6808886	6918651	1.57	cps
Thallium	203-1	36939	36411	36561	36637	0.74	cps
Thallium	205-1	87318	87895	87489	87567	0.34	cps
Tin	118-1	146576	146559	145833	146323	0.29	cps
Titanium	47-1	7412	7319	7605	7445	1.96	cps
Uranium	238-1	113548	113921	113894	113788	0.18	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166569BS	Instrumnet Name :	P8
Client Sample ID :	LCS569	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:43:18	DataFile Name :	020LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	29858	29771	30329	29986	1.00	cps
Ytterbium	172-1	110	120	167	132	22.88	cps
Ytterbium	172-2	57	40	43	47	18.90	cps
Ytterbium	176-1	2274	2190	2347	2270	3.45	cps
Ytterbium	176-2	450	400	377	409	9.16	cps
Yttrium	89-1	30005690	29608066	29176069	29596608	1.40	cps
Yttrium	89-2	1990428	2007601	1968682	1988904	0.98	cps
Zinc	66-2	6108	6281	6355	6248	2.03	cps
Zirconium	90-1	61234	60156	60584	60658	0.89	cps
Zirconium	91-1	13804	12909	13704	13472	3.64	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	773	707	753	744	4.60	cps
Antimony	121-1	1880	1980	1970	1943	2.83	cps
Arsenic	75-2	747	860	820	809	7.11	cps
Barium	135-1	481511	474964	482689	479721	0.87	cps
Barium	137-1	836641	834824	836245	835904	0.11	cps
Beryllium	9-1	507	547	480	512	6.63	cps
Bismuth	209-1	14306791	13887892	13098309	13764331	4.46	cps
Bismuth	209-2	5111774	5061254	4936461	5036496	1.79	cps
Bromine	81-1	46045	46982	46764	46597	1.05	cps
Cadmium	108-1	83	47	90	73	31.81	cps
Cadmium	106-1	8166	8303	7822	8097	3.06	cps
Cadmium	111-1	5751	5899	5493	5714	3.60	cps
Calcium	43-1	11038790	10688897	10725466	10817718	1.78	cps
Calcium	44-1	170605847	169762114	169273887	169880616	0.40	cps
Carbon	12-1	6355881	6795084	6942696	6697887	4.56	cps
Carbon	12-2	48429	49115	49955	49166	1.55	cps
Chlorine	35-1	1939046	2088578	2131819	2053148	4.93	cps
Chlorine	35-2	8309	8566	8609	8495	1.91	cps
Chromium	52-2	3170	3094	3090	3118	1.45	cps
Cobalt	59-2	1843	1950	1973	1922	3.61	cps
Copper	63-2	4707	5041	4751	4833	3.75	cps
Dysprosium	156-1	240	183	160	194	21.16	cps
Dysprosium	156-2	33	33	13	27	43.31	cps
Erbium	164-1	237	187	233	219	12.77	cps
Erbium	164-2	53	67	47	56	18.33	cps
Gadolinium	160-1	177	200	183	187	6.44	cps
Gadolinium	160-2	83	53	43	60	34.70	cps
Holmium	165-1	22061434	22078201	20887106	21675580	3.15	cps
Holmium	165-2	7181226	7278368	6827088	7095561	3.35	cps
Indium	115-1	17006804	16704860	16176167	16629277	2.53	cps
Indium	115-2	1497633	1545383	1476747	1506588	2.34	cps
Iron	54-2	111457	112055	111131	111548	0.42	cps
Iron	56-2	2148318	2150105	2134824	2144415	0.39	cps
Iron	57-2	51235	51814	51064	51371	0.76	cps
Krypton	83-1	340	303	253	299	14.56	cps
Lead	206-1	7622	7305	6608	7179	7.23	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6348	6158	5685	6064	5.64	cps
Lead	208-1	29707	27752	26054	27837	6.57	cps
Lithium	6-1	8541421	8274314	8126284	8314006	2.53	cps
Magnesium	24-2	11769349	11917350	11818440	11835046	0.64	cps
Manganese	55-2	82617	83207	81299	82375	1.19	cps
Molybdenum	94-1	32929	32832	32849	32870	0.16	cps
Molybdenum	95-1	54797	54148	55186	54710	0.96	cps
Molybdenum	96-1	59406	58368	59440	59072	1.03	cps
Molybdenum	97-1	34436	34319	34456	34404	0.21	cps
Molybdenum	98-1	89268	89013	87842	88708	0.86	cps
Neodymium	150-1	107	97	137	113	18.37	cps
Neodymium	150-2	7	13	7	9	43.25	cps
Nickel	60-2	4131	4327	4144	4201	2.62	cps
Phosphorus	31-2	267	293	297	286	5.76	cps
Potassium	39-2	655216	654315	647358	652296	0.66	cps
Rhodium	103-1	15450677	15108501	14400513	14986564	3.57	cps
Rhodium	103-2	5754782	5742740	5500957	5666160	2.53	cps
Scandium	45-1	12116067	11818391	11340117	11758192	3.33	cps
Scandium	45-2	214173	209879	205355	209802	2.10	cps
Selenium	82-1	10	57	120	62	88.73	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	10	20	17	34.64	cps
Silicon	28-1	114577828	113396092	111157502	113043807	1.54	cps
Silver	107-1	633	610	633	626	2.15	cps
Silver	109-1	313	4936	330	1860	143.25	cps
Sodium	23-2	6941867	6982447	6955144	6959820	0.30	cps
Strontium	86-1	102470558	101206328	100493965	101390284	0.99	cps
Strontium	88-1	899281773	874833960	876387347	883501027	1.55	cps
Sulfur	34-1	11755409	11588190	11854543	11732714	1.15	cps
Terbium	159-1	23518081	22739038	21363273	22540131	4.84	cps
Terbium	159-2	6908267	6850437	6675233	6811313	1.78	cps
Thallium	203-1	1277	1047	1073	1132	11.11	cps
Thallium	205-1	3134	2700	2444	2759	12.64	cps
Tin	118-1	6685	6525	6838	6683	2.35	cps
Titanium	47-1	2694	3311	2677	2894	12.49	cps
Uranium	238-1	101088	101924	101085	101366	0.48	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01	Instrumnet Name :	P8
Client Sample ID :	ME2975	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:46:37	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2437	2400	2437	2425	0.87	cps
Ytterbium	172-1	173	160	137	157	11.85	cps
Ytterbium	172-2	67	60	57	61	8.33	cps
Ytterbium	176-1	2340	2197	2034	2190	7.01	cps
Ytterbium	176-2	363	283	270	306	16.52	cps
Yttrium	89-1	30247755	29712869	28146748	29369124	3.72	cps
Yttrium	89-2	1974840	1994053	1864293	1944396	3.60	cps
Zinc	66-2	1310	1470	1377	1386	5.80	cps
Zirconium	90-1	4921	4651	4521	4698	4.34	cps
Zirconium	91-1	963	1007	970	980	2.38	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	663	697	647	669	3.81	cps
Antimony	121-1	1510	1643	1503	1552	5.09	cps
Arsenic	75-2	890	937	767	864	10.16	cps
Barium	135-1	477541	475717	470519	474593	0.77	cps
Barium	137-1	827302	834069	830608	830660	0.41	cps
Beryllium	9-1	479	527	510	505	4.89	cps
Bismuth	209-1	13860666	13627167	13046496	13511443	3.10	cps
Bismuth	209-2	5180507	5089323	5102234	5124021	0.96	cps
Bromine	81-1	45390	47647	48962	47333	3.82	cps
Cadmium	108-1	70	43	67	60	24.22	cps
Cadmium	106-1	8173	7986	7829	7996	2.15	cps
Cadmium	111-1	5758	5623	5537	5639	1.98	cps
Calcium	43-1	10677219	10655219	10539729	10624056	0.70	cps
Calcium	44-1	168149597	168355104	166433364	167646022	0.63	cps
Carbon	12-1	6827502	7149123	7383212	7119946	3.92	cps
Carbon	12-2	50985	50992	51406	51127	0.47	cps
Chlorine	35-1	1771553	1852512	1943292	1855786	4.63	cps
Chlorine	35-2	7562	8182	7899	7881	3.94	cps
Chromium	52-2	2580	2630	2730	2647	2.89	cps
Cobalt	59-2	1990	1847	1897	1911	3.81	cps
Copper	63-2	3924	3907	4054	3962	2.03	cps
Dysprosium	156-1	117	147	113	126	14.62	cps
Dysprosium	156-2	50	27	37	38	30.98	cps
Erbium	164-1	240	193	207	213	11.27	cps
Erbium	164-2	43	50	40	44	11.46	cps
Gadolinium	160-1	253	247	203	234	11.58	cps
Gadolinium	160-2	53	53	47	51	7.52	cps
Holmium	165-1	22099286	21855164	21268092	21740847	1.97	cps
Holmium	165-2	7065667	7075199	7040453	7060440	0.25	cps
Indium	115-1	16698961	16420618	16024915	16381498	2.07	cps
Indium	115-2	1464466	1462881	1538467	1488605	2.90	cps
Iron	54-2	105522	104498	103944	104655	0.76	cps
Iron	56-2	1999490	1986783	1973350	1986541	0.66	cps
Iron	57-2	48031	48790	47509	48110	1.34	cps
Krypton	83-1	283	277	280	280	1.19	cps
Lead	206-1	4894	5078	5068	5013	2.06	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4514	4691	4344	4516	3.84	cps
Lead	208-1	20100	20413	19990	20167	1.09	cps
Lithium	6-1	8584396	8329131	7910520	8274683	4.11	cps
Magnesium	24-2	11777301	11735793	11795679	11769591	0.26	cps
Manganese	55-2	78052	77234	77110	77465	0.66	cps
Molybdenum	94-1	32668	32655	32608	32644	0.10	cps
Molybdenum	95-1	54450	53978	53556	53994	0.83	cps
Molybdenum	96-1	59011	58737	58760	58836	0.26	cps
Molybdenum	97-1	34429	33317	33958	33901	1.65	cps
Molybdenum	98-1	88530	86846	88728	88035	1.17	cps
Neodymium	150-1	113	113	123	117	4.95	cps
Neodymium	150-2	33	10	17	20	60.08	cps
Nickel	60-2	3927	4061	3891	3959	2.26	cps
Phosphorus	31-2	273	283	270	276	2.52	cps
Potassium	39-2	634887	634045	638598	635843	0.38	cps
Rhodium	103-1	15198056	15075568	14348133	14873919	3.09	cps
Rhodium	103-2	5657152	5651446	5686871	5665156	0.34	cps
Scandium	45-1	11850882	11675251	11187643	11571259	2.97	cps
Scandium	45-2	211233	207448	212031	210237	1.16	cps
Selenium	82-1	50	70	67	62	17.22	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	7	17	10	57.72	cps
Silicon	28-1	111983178	112482012	111852832	112106007	0.30	cps
Silver	107-1	490	523	377	463	16.59	cps
Silver	109-1	207	137	167	170	20.66	cps
Sodium	23-2	6783360	6745122	6768611	6765698	0.29	cps
Strontium	86-1	101160982	101325385	101270752	101252373	0.08	cps
Strontium	88-1	887111720	884105213	870631134	880616022	1.00	cps
Sulfur	34-1	11661560	11798962	11669690	11710071	0.66	cps
Terbium	159-1	22688013	22083042	21288386	22019814	3.19	cps
Terbium	159-2	6772699	6709814	6854872	6779128	1.07	cps
Thallium	203-1	867	913	960	913	5.11	cps
Thallium	205-1	2294	2130	2020	2148	6.40	cps
Tin	118-1	3504	3504	3340	3449	2.73	cps
Titanium	47-1	2810	2647	3221	2893	10.23	cps
Uranium	238-1	101461	100960	101484	101302	0.29	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-02	Instrumnet Name :	P8
Client Sample ID :	ME2975D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:49:54	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2484	2347	2507	2446	3.53	cps
Ytterbium	172-1	173	193	147	171	13.68	cps
Ytterbium	172-2	73	77	73	74	2.59	cps
Ytterbium	176-1	2344	2117	1980	2147	8.55	cps
Ytterbium	176-2	357	360	350	356	1.43	cps
Yttrium	89-1	29651241	29285934	27840885	28926020	3.31	cps
Yttrium	89-2	1961658	1948723	1949918	1953433	0.37	cps
Zinc	66-2	637	600	600	612	3.46	cps
Zirconium	90-1	4391	4527	4211	4376	3.63	cps
Zirconium	91-1	1033	960	973	989	3.95	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	293	260	273	276	6.09	cps
Antimony	121-1	473	443	493	470	5.36	cps
Arsenic	75-2	153	143	143	147	3.94	cps
Barium	135-1	95339	92822	93349	93836	1.41	cps
Barium	137-1	162466	163066	163046	162860	0.21	cps
Beryllium	9-1	446	470	500	472	5.71	cps
Bismuth	209-1	13780905	13819192	13951451	13850516	0.65	cps
Bismuth	209-2	5197853	5209700	5186500	5198018	0.22	cps
Bromine	81-1	14781	15015	14991	14929	0.86	cps
Cadmium	108-1	43	40	20	34	36.64	cps
Cadmium	106-1	8423	8263	8296	8327	1.01	cps
Cadmium	111-1	5926	5802	5873	5867	1.05	cps
Calcium	43-1	2163710	2064284	2151628	2126540	2.55	cps
Calcium	44-1	33205825	33415015	33136985	33252608	0.44	cps
Carbon	12-1	4774738	4824443	4912291	4837157	1.44	cps
Carbon	12-2	32262	32088	31911	32087	0.55	cps
Chlorine	35-1	898692	898022	881470	892728	1.09	cps
Chlorine	35-2	3214	3410	3517	3380	4.55	cps
Chromium	52-2	1297	1333	1410	1347	4.29	cps
Cobalt	59-2	533	457	450	480	9.65	cps
Copper	63-2	2770	2920	2997	2896	3.98	cps
Dysprosium	156-1	77	87	93	86	9.80	cps
Dysprosium	156-2	7	13	20	13	49.99	cps
Erbium	164-1	110	90	113	104	12.08	cps
Erbium	164-2	43	23	33	33	30.00	cps
Gadolinium	160-1	120	120	127	122	3.15	cps
Gadolinium	160-2	10	20	27	19	44.42	cps
Holmium	165-1	21869287	21626396	21592491	21696058	0.70	cps
Holmium	165-2	7030461	7018971	6973457	7007630	0.43	cps
Indium	115-1	16468207	16549420	16273252	16430293	0.86	cps
Indium	115-2	1479296	1477997	1469201	1475498	0.37	cps
Iron	54-2	20752	21356	21443	21184	1.78	cps
Iron	56-2	391387	390339	391212	390980	0.14	cps
Iron	57-2	10054	9390	9667	9703	3.44	cps
Krypton	83-1	330	310	260	300	12.02	cps
Lead	206-1	3230	3444	3224	3299	3.79	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2980	2810	2644	2811	5.99	cps
Lead	208-1	13326	13296	12806	13143	2.22	cps
Lithium	6-1	8221708	8356561	8269754	8282675	0.83	cps
Magnesium	24-2	2385068	2381844	2388484	2385132	0.14	cps
Manganese	55-2	31939	31899	32270	32036	0.64	cps
Molybdenum	94-1	6825	6775	6898	6833	0.91	cps
Molybdenum	95-1	10971	10868	10731	10857	1.11	cps
Molybdenum	96-1	11345	11715	11425	11495	1.70	cps
Molybdenum	97-1	6705	6825	6958	6830	1.86	cps
Molybdenum	98-1	17474	17665	18068	17736	1.71	cps
Neodymium	150-1	40	30	47	39	21.57	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	1550	1450	1527	1509	3.47	cps
Phosphorus	31-2	137	133	127	132	3.85	cps
Potassium	39-2	143630	142384	143370	143128	0.46	cps
Rhodium	103-1	15403719	15494038	15127861	15341873	1.24	cps
Rhodium	103-2	5804735	5735004	5771532	5770424	0.60	cps
Scandium	45-1	11596924	11712976	11391456	11567119	1.41	cps
Scandium	45-2	208372	212368	210293	210344	0.95	cps
Selenium	82-1	-10	7	-27	-10	-166.60	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	27	7	13	16	65.47	cps
Silicon	28-1	21930678	22706225	22245592	22294165	1.75	cps
Silver	107-1	273	260	297	277	6.71	cps
Silver	109-1	97	127	117	113	13.48	cps
Sodium	23-2	1450582	1467938	1461041	1459854	0.60	cps
Strontium	86-1	19731718	19672993	19741068	19715260	0.19	cps
Strontium	88-1	172000744	170504967	173285134	171930282	0.81	cps
Sulfur	34-1	2930591	3040574	2970886	2980684	1.87	cps
Terbium	159-1	21995498	22399272	22164492	22186421	0.91	cps
Terbium	159-2	6850054	6765709	6833065	6816276	0.65	cps
Thallium	203-1	737	733	733	734	0.26	cps
Thallium	205-1	1710	1807	1793	1770	2.96	cps
Tin	118-1	3584	3754	3894	3744	4.15	cps
Titanium	47-1	797	797	937	843	9.59	cps
Uranium	238-1	19789	20240	19785	19938	1.31	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2975L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 15:53:09	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	547	553	473	524	8.46	cps
Ytterbium	172-1	150	180	113	148	22.59	cps
Ytterbium	172-2	53	40	33	42	24.12	cps
Ytterbium	176-1	2077	2280	2104	2154	5.13	cps
Ytterbium	176-2	273	420	370	354	21.04	cps
Yttrium	89-1	28714386	29012846	28474010	28733748	0.94	cps
Yttrium	89-2	1926557	1898519	1938823	1921300	1.08	cps
Zinc	66-2	817	807	767	797	3.32	cps
Zirconium	90-1	1393	1400	1627	1473	9.02	cps
Zirconium	91-1	347	257	287	297	15.45	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	137028	136381	138149	137186	0.65	cps
Antimony	121-1	1919030	1950256	1914385	1927890	1.01	cps
Arsenic	75-2	14841	14731	14951	14841	0.74	cps
Barium	135-1	9270440	9484183	9357224	9370616	1.15	cps
Barium	137-1	16109900	16282269	16389218	16260462	0.87	cps
Beryllium	9-1	301198	301312	300588	301033	0.13	cps
Bismuth	209-1	13766813	13509156	13582898	13619623	0.97	cps
Bismuth	209-2	5015819	5118870	5062239	5065643	1.02	cps
Bromine	81-1	40766	44306	46554	43875	6.65	cps
Cadmium	108-1	15122	14875	15065	15020	0.86	cps
Cadmium	106-1	28122	28282	27541	27982	1.39	cps
Cadmium	111-1	230454	233411	233591	232485	0.76	cps
Calcium	43-1	10602349	10651867	10419392	10557869	1.16	cps
Calcium	44-1	169023861	167524144	164655891	167067965	1.33	cps
Carbon	12-1	5920460	6164485	6454688	6179878	4.33	cps
Carbon	12-2	44734	43798	44360	44298	1.06	cps
Chlorine	35-1	40776596	44761486	46269923	43936002	6.46	cps
Chlorine	35-2	189355	190084	192245	190562	0.79	cps
Chromium	52-2	750392	755452	758282	754708	0.53	cps
Cobalt	59-2	3669621	3735711	3685577	3696969	0.93	cps
Copper	63-2	1396357	1388106	1392476	1392313	0.30	cps
Dysprosium	156-1	183	217	253	218	16.08	cps
Dysprosium	156-2	30	43	17	30	44.43	cps
Erbium	164-1	197	167	180	181	8.30	cps
Erbium	164-2	57	77	50	61	22.71	cps
Gadolinium	160-1	210	200	207	206	2.48	cps
Gadolinium	160-2	57	50	53	53	6.25	cps
Holmium	165-1	22453476	21774978	22211301	22146585	1.55	cps
Holmium	165-2	7089293	7010788	7056764	7052282	0.56	cps
Indium	115-1	16527976	16520491	16282686	16443718	0.85	cps
Indium	115-2	1456670	1472034	1461167	1463290	0.54	cps
Iron	54-2	280294	282616	280687	281199	0.44	cps
Iron	56-2	4896357	4807503	4820902	4841588	0.99	cps
Iron	57-2	118910	118124	117677	118237	0.53	cps
Krypton	83-1	297	273	283	284	4.11	cps
Lead	206-1	314817	314981	312116	313971	0.51	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	272905	270614	270141	271220	0.54	cps
Lead	208-1	1251524	1250884	1248686	1250365	0.12	cps
Lithium	6-1	8256452	8346754	8088651	8230619	1.59	cps
Magnesium	24-2	11815267	11408184	11599606	11607686	1.75	cps
Manganese	55-2	845237	847652	843396	845428	0.25	cps
Molybdenum	94-1	32431	32211	31813	32152	0.97	cps
Molybdenum	95-1	53395	53208	53967	53524	0.74	cps
Molybdenum	96-1	58466	58101	58482	58350	0.37	cps
Molybdenum	97-1	33621	34352	34092	34022	1.09	cps
Molybdenum	98-1	88238	87165	86011	87138	1.28	cps
Neodymium	150-1	553	527	523	534	3.08	cps
Neodymium	150-2	37	27	23	29	24.03	cps
Nickel	60-2	978710	972935	986947	979531	0.72	cps
Phosphorus	31-2	260	300	300	287	8.06	cps
Potassium	39-2	630229	633262	635838	633110	0.44	cps
Rhodium	103-1	15239209	14855532	14797816	14964185	1.60	cps
Rhodium	103-2	5695798	5627187	5499784	5607589	1.77	cps
Scandium	45-1	11548939	11682184	11442963	11558029	1.04	cps
Scandium	45-2	209401	208030	211199	209543	0.76	cps
Selenium	82-1	5555	5798	5628	5660	2.21	cps
Selenium	77-2	117	80	80	92	22.96	cps
Selenium	78-2	340	307	290	312	8.15	cps
Silicon	28-1	110287488	110968425	110529455	110595123	0.31	cps
Silver	107-1	1048183	1057581	1051116	1052293	0.46	cps
Silver	109-1	1008640	1008074	1019695	1012136	0.65	cps
Sodium	23-2	6768043	6591890	6653810	6671248	1.34	cps
Strontium	86-1	99625922	100210212	100415419	100083851	0.41	cps
Strontium	88-1	874315480	860772361	868398334	867828725	0.78	cps
Sulfur	34-1	11292910	11444004	11242024	11326313	0.93	cps
Terbium	159-1	22964334	22399453	22216822	22526870	1.73	cps
Terbium	159-2	6749851	6763100	6738628	6750527	0.18	cps
Thallium	203-1	942166	937449	943005	940874	0.32	cps
Thallium	205-1	2322166	2363569	2344342	2343359	0.88	cps
Tin	118-1	5341	5511	5234	5362	2.60	cps
Titanium	47-1	2890	2777	3609	3092	14.59	cps
Uranium	238-1	100621	102247	102284	101717	0.93	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-03	Instrumnet Name :	P8
Client Sample ID :	ME2975S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:56:27	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1538227	1519717	1515446	1524464	0.79	cps
Ytterbium	172-1	207	190	203	200	4.41	cps
Ytterbium	172-2	53	40	63	52	22.41	cps
Ytterbium	176-1	2114	2344	2134	2197	5.80	cps
Ytterbium	176-2	347	307	320	324	6.28	cps
Yttrium	89-1	29273090	29299815	28452103	29008336	1.66	cps
Yttrium	89-2	1909030	1932617	1901568	1914405	0.85	cps
Zinc	66-2	292136	292300	292689	292375	0.10	cps
Zirconium	90-1	4698	4254	4668	4540	5.46	cps
Zirconium	91-1	1257	1147	1097	1167	7.02	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	920	1047	1100	1022	9.04	cps
Antimony	121-1	1247	1067	1020	1111	10.77	cps
Arsenic	75-2	40	40	83	54	45.95	cps
Barium	135-1	111534	109216	110089	110280	1.06	cps
Barium	137-1	192763	193375	189947	192028	0.95	cps
Beryllium	9-1	544	466	506	505	7.67	cps
Bismuth	209-1	13235825	13402873	13132766	13257155	1.03	cps
Bismuth	209-2	4758053	5357713	4916572	5010779	6.20	cps
Bromine	81-1	222526	245133	261067	242908	7.97	cps
Cadmium	108-1	50	57	50	52	7.37	cps
Cadmium	106-1	7846	7726	7876	7816	1.02	cps
Cadmium	111-1	5500	5438	5508	5482	0.70	cps
Calcium	43-1	17309919	17177373	17313621	17266971	0.45	cps
Calcium	44-1	276779276	275943689	273029536	275250834	0.72	cps
Carbon	12-1	6880635	7344789	7627203	7284209	5.17	cps
Carbon	12-2	53283	53580	53959	53607	0.63	cps
Chlorine	35-1	7503069	7826451	7849985	7726502	2.51	cps
Chlorine	35-2	30816	30185	30569	30523	1.04	cps
Chromium	52-2	1463	1310	1467	1413	6.33	cps
Cobalt	59-2	403	460	340	401	14.97	cps
Copper	63-2	4671	4768	4748	4729	1.08	cps
Dysprosium	156-1	170	180	217	189	13.01	cps
Dysprosium	156-2	43	53	47	48	10.66	cps
Erbium	164-1	223	273	237	244	10.59	cps
Erbium	164-2	93	67	100	87	20.35	cps
Gadolinium	160-1	267	260	263	263	1.26	cps
Gadolinium	160-2	87	53	63	68	25.24	cps
Holmium	165-1	21959446	21343651	21400971	21568022	1.58	cps
Holmium	165-2	6661878	7705450	6865287	7077539	7.82	cps
Indium	115-1	16154346	16088988	15916836	16053390	0.76	cps
Indium	115-2	1376991	1644949	1417190	1479710	9.77	cps
Iron	54-2	36116	35421	36085	35874	1.10	cps
Iron	56-2	662041	662369	667257	663889	0.44	cps
Iron	57-2	17414	16590	17077	17027	2.43	cps
Krypton	83-1	333	303	367	334	9.47	cps
Lead	206-1	4487	3917	3987	4131	7.53	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3611	3494	3177	3427	6.54	cps
Lead	208-1	16974	16308	15207	16163	5.52	cps
Lithium	6-1	8197993	8004463	8131459	8111305	1.21	cps
Magnesium	24-2	20076292	19809004	19843833	19909710	0.73	cps
Manganese	55-2	72962	72255	74138	73118	1.30	cps
Molybdenum	94-1	2977	2717	2980	2891	5.23	cps
Molybdenum	95-1	2134	1900	2120	2051	6.39	cps
Molybdenum	96-1	2397	2360	2434	2397	1.53	cps
Molybdenum	97-1	1177	1293	1257	1242	4.80	cps
Molybdenum	98-1	2930	3094	3147	3057	3.69	cps
Neodymium	150-1	153	163	163	160	3.61	cps
Neodymium	150-2	10	17	17	14	26.66	cps
Nickel	60-2	1213	1220	1260	1231	2.05	cps
Phosphorus	31-2	153	167	157	159	4.37	cps
Potassium	39-2	438487	435269	437854	437203	0.39	cps
Rhodium	103-1	14713649	14422515	14387635	14507933	1.23	cps
Rhodium	103-2	5292498	5969069	5379855	5547141	6.63	cps
Scandium	45-1	11332973	11443145	11358025	11378048	0.51	cps
Scandium	45-2	200216	227678	203473	210456	7.13	cps
Selenium	82-1	73	87	67	76	13.48	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	10	3	13	9	57.30	cps
Silicon	28-1	76015512	76820557	76276552	76370874	0.54	cps
Silver	107-1	860	710	680	750	12.86	cps
Silver	109-1	710	563	453	576	22.37	cps
Sodium	23-2	19254438	18986876	19300221	19180512	0.88	cps
Strontium	86-1	83452675	82467847	82608852	82843125	0.64	cps
Strontium	88-1	720793163	726004709	720747136	722515003	0.42	cps
Sulfur	34-1	20169763	20499608	20365060	20344811	0.82	cps
Terbium	159-1	22099161	21495151	21620955	21738422	1.47	cps
Terbium	159-2	6446451	7366854	6501908	6771738	7.62	cps
Thallium	203-1	803	697	760	753	7.12	cps
Thallium	205-1	1880	1830	1713	1808	4.73	cps
Tin	118-1	4664	4597	4694	4652	1.06	cps
Titanium	47-1	2330	2200	2290	2274	2.93	cps
Uranium	238-1	15049	14402	14568	14673	2.29	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-04	Instrumnet Name :	P8
Client Sample ID :	ME2978	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 15:59:37	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	453	420	467	447	5.38	cps
Ytterbium	172-1	157	190	223	190	17.54	cps
Ytterbium	172-2	67	87	77	77	13.04	cps
Ytterbium	176-1	2100	2064	1827	1997	7.43	cps
Ytterbium	176-2	277	457	353	362	24.94	cps
Yttrium	89-1	28574339	28607560	28037836	28406578	1.13	cps
Yttrium	89-2	1860582	2120039	1877425	1952682	7.43	cps
Zinc	66-2	403	417	373	398	5.58	cps
Zirconium	90-1	5308	5421	4954	5228	4.66	cps
Zirconium	91-1	1220	1050	1003	1091	10.45	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1233	1487	1283	1335	10.06	cps
Antimony	121-1	617	573	653	614	6.52	cps
Arsenic	75-2	50	40	53	48	14.52	cps
Barium	135-1	111346	112593	110815	111585	0.82	cps
Barium	137-1	192865	197839	193619	194774	1.38	cps
Beryllium	9-1	505	492	519	505	2.60	cps
Bismuth	209-1	13500929	13823199	13659807	13661312	1.18	cps
Bismuth	209-2	5604184	5178674	5087825	5290228	5.21	cps
Bromine	81-1	234618	253798	262901	250439	5.76	cps
Cadmium	108-1	57	47	53	52	9.75	cps
Cadmium	106-1	8219	8109	8339	8223	1.40	cps
Cadmium	111-1	5787	5720	5854	5787	1.15	cps
Calcium	43-1	17738915	18126928	17523984	17796609	1.72	cps
Calcium	44-1	285980422	289539249	281478676	285666116	1.41	cps
Carbon	12-1	6354129	6816566	7084568	6751755	5.47	cps
Carbon	12-2	49035	50005	50463	49834	1.46	cps
Chlorine	35-1	5952786	6494363	6670165	6372438	5.87	cps
Chlorine	35-2	26468	26932	27359	26920	1.66	cps
Chromium	52-2	1060	1173	1213	1149	6.92	cps
Cobalt	59-2	380	380	370	377	1.53	cps
Copper	63-2	2907	3040	2967	2971	2.25	cps
Dysprosium	156-1	230	190	247	222	13.11	cps
Dysprosium	156-2	57	37	53	49	21.91	cps
Erbium	164-1	303	317	313	311	2.23	cps
Erbium	164-2	93	113	103	103	9.68	cps
Gadolinium	160-1	293	250	287	277	8.43	cps
Gadolinium	160-2	77	97	87	87	11.54	cps
Holmium	165-1	22070046	21874154	22027696	21990632	0.47	cps
Holmium	165-2	7973824	7283097	7133532	7463484	6.01	cps
Indium	115-1	16572005	16982969	16686250	16747075	1.27	cps
Indium	115-2	1701397	1556638	1477646	1578560	7.19	cps
Iron	54-2	40995	41470	41630	41365	0.80	cps
Iron	56-2	758811	758656	764776	760747	0.46	cps
Iron	57-2	19597	19233	19450	19427	0.94	cps
Krypton	83-1	307	277	310	298	6.17	cps
Lead	206-1	3834	3611	3774	3739	3.09	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3360	3250	3110	3240	3.87	cps
Lead	208-1	15090	14653	14443	14729	2.24	cps
Lithium	6-1	8193955	8226748	8274209	8231638	0.49	cps
Magnesium	24-2	20477411	20517849	20777464	20590908	0.79	cps
Manganese	55-2	83955	82962	84897	83938	1.15	cps
Molybdenum	94-1	2700	2937	2800	2813	4.23	cps
Molybdenum	95-1	1523	1490	1437	1483	2.95	cps
Molybdenum	96-1	1663	1730	1620	1671	3.32	cps
Molybdenum	97-1	827	783	873	828	5.44	cps
Molybdenum	98-1	2217	2060	2244	2174	4.56	cps
Neodymium	150-1	223	190	200	204	8.37	cps
Neodymium	150-2	33	67	53	51	32.83	cps
Nickel	60-2	1787	1840	1680	1769	4.61	cps
Phosphorus	31-2	150	163	150	154	4.99	cps
Potassium	39-2	443524	446349	446697	445524	0.39	cps
Rhodium	103-1	15309942	15149916	15085682	15181847	0.76	cps
Rhodium	103-2	6272865	5723260	5633085	5876403	5.89	cps
Scandium	45-1	11826981	11611941	11837254	11758725	1.08	cps
Scandium	45-2	235622	221650	214595	223956	4.78	cps
Selenium	82-1	103	123	90	106	15.90	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	7	10	17	11	45.82	cps
Silicon	28-1	78237636	79425889	78178027	78613850	0.90	cps
Silver	107-1	407	450	407	421	5.94	cps
Silver	109-1	187	207	220	204	8.21	cps
Sodium	23-2	18512140	18487868	18813571	18604526	0.98	cps
Strontium	86-1	82874224	83648842	82196430	82906499	0.88	cps
Strontium	88-1	727644576	721847749	728475162	725989163	0.50	cps
Sulfur	34-1	21015154	21432600	21196385	21214713	0.99	cps
Terbium	159-1	22824116	22661757	22648847	22711574	0.43	cps
Terbium	159-2	7766059	7068636	6911789	7248828	6.27	cps
Thallium	203-1	670	717	600	662	8.87	cps
Thallium	205-1	1553	1600	1547	1567	1.86	cps
Tin	118-1	8883	8613	8476	8657	2.39	cps
Titanium	47-1	2600	2670	2724	2665	2.32	cps
Uranium	238-1	12313	12837	12430	12526	2.20	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-05	Instrumnet Name :	P8
Client Sample ID :	ME2979	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:03:11	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	557	440	467	488	12.53	cps
Ytterbium	172-1	273	230	203	236	15.00	cps
Ytterbium	172-2	107	70	80	86	22.16	cps
Ytterbium	176-1	2150	2177	2197	2175	1.08	cps
Ytterbium	176-2	340	417	407	388	10.75	cps
Yttrium	89-1	29814921	29421393	29844771	29693695	0.80	cps
Yttrium	89-2	2179385	2016692	1963130	2053069	5.49	cps
Zinc	66-2	870	897	857	874	2.33	cps
Zirconium	90-1	5391	5344	5458	5398	1.06	cps
Zirconium	91-1	1220	1113	1210	1181	4.99	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8996	9743	9356	9365	3.99	cps
Antimony	121-1	6445	6285	6031	6254	3.33	cps
Arsenic	75-2	2267	2437	2424	2376	3.98	cps
Barium	135-1	2625792	2641473	2662411	2643225	0.70	cps
Barium	137-1	4515713	4484149	4493190	4497684	0.36	cps
Beryllium	9-1	495	545	504	515	5.19	cps
Bismuth	209-1	13695925	13587101	13577562	13620196	0.48	cps
Bismuth	209-2	5049052	5099927	5044735	5064572	0.61	cps
Bromine	81-1	199683	209571	213073	207442	3.35	cps
Cadmium	108-1	80	97	73	83	14.43	cps
Cadmium	106-1	8533	8359	8346	8413	1.24	cps
Cadmium	111-1	6234	6084	6154	6157	1.22	cps
Calcium	43-1	19637856	19363112	19339184	19446717	0.85	cps
Calcium	44-1	318515862	315616182	309606329	314579458	1.44	cps
Carbon	12-1	61859732	77148341	84678125	74562066	15.59	cps
Carbon	12-2	610177	625587	632041	622602	1.80	cps
Chlorine	35-1	3898762	4238475	4273692	4136976	5.00	cps
Chlorine	35-2	17454	17270	17431	17385	0.57	cps
Chromium	52-2	4067	4127	3971	4055	1.95	cps
Cobalt	59-2	34281	35508	35250	35013	1.85	cps
Copper	63-2	10978	11195	11001	11058	1.08	cps
Dysprosium	156-1	1037	1060	1067	1054	1.49	cps
Dysprosium	156-2	303	337	397	346	13.69	cps
Erbium	164-1	1210	1063	1160	1145	6.52	cps
Erbium	164-2	343	363	357	354	2.87	cps
Gadolinium	160-1	1133	1227	1070	1143	6.89	cps
Gadolinium	160-2	347	437	410	398	11.62	cps
Holmium	165-1	22502348	22289816	22269227	22353797	0.58	cps
Holmium	165-2	7042134	7249589	7174539	7155421	1.47	cps
Indium	115-1	16673496	16492499	16592309	16586101	0.55	cps
Indium	115-2	1520915	1539000	1468482	1509465	2.43	cps
Iron	54-2	106423	106147	106137	106236	0.15	cps
Iron	56-2	2087937	2085242	2045492	2072890	1.15	cps
Iron	57-2	50145	49308	50452	49968	1.18	cps
Krypton	83-1	253	317	313	294	12.10	cps
Lead	206-1	12423	13053	12957	12811	2.65	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10578	10421	10501	10500	0.75	cps
Lead	208-1	49464	49888	49116	49489	0.78	cps
Lithium	6-1	8645108	8491799	8568725	8568544	0.89	cps
Magnesium	24-2	27478266	27909856	27828510	27738877	0.83	cps
Manganese	55-2	2855926	2835593	2819778	2837099	0.64	cps
Molybdenum	94-1	11498	11605	10994	11366	2.87	cps
Molybdenum	95-1	7262	7202	7325	7263	0.85	cps
Molybdenum	96-1	8649	8856	8783	8763	1.20	cps
Molybdenum	97-1	4477	4507	4441	4475	0.75	cps
Molybdenum	98-1	11635	12012	11845	11831	1.60	cps
Neodymium	150-1	1400	1333	1290	1341	4.13	cps
Neodymium	150-2	287	323	313	308	6.16	cps
Nickel	60-2	4721	4704	4671	4699	0.54	cps
Phosphorus	31-2	3114	3157	3017	3096	2.32	cps
Potassium	39-2	1374605	1355466	1344108	1358060	1.13	cps
Rhodium	103-1	15383177	14915438	15231962	15176859	1.57	cps
Rhodium	103-2	5629602	5678488	5541721	5616603	1.23	cps
Scandium	45-1	12072097	11858825	11928760	11953227	0.91	cps
Scandium	45-2	207617	216182	213823	212541	2.08	cps
Selenium	82-1	330	153	213	232	38.68	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	30	27	20	26	19.92	cps
Silicon	28-1	336520315	346738835	335241195	339500115	1.86	cps
Silver	107-1	673	527	583	594	12.44	cps
Silver	109-1	337	313	270	307	11.03	cps
Sodium	23-2	14682316	14640818	14668761	14663965	0.14	cps
Strontium	86-1	102455915	101269922	101603712	101776516	0.60	cps
Strontium	88-1	888951533	885587987	879906787	884815436	0.52	cps
Sulfur	34-1	2039309	2025284	1988723	2017772	1.29	cps
Terbium	159-1	23196485	22340541	22702283	22746436	1.89	cps
Terbium	159-2	6908778	6964053	6837937	6903589	0.92	cps
Thallium	203-1	830	743	793	789	5.52	cps
Thallium	205-1	1797	1850	1990	1879	5.31	cps
Tin	118-1	13126	13126	13263	13172	0.60	cps
Titanium	47-1	17564	15002	17453	16673	8.69	cps
Uranium	238-1	25369	25502	25476	25449	0.28	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-06	Instrumnet Name :	P8
Client Sample ID :	ME2989	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:06:26	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8493	8563	8346	8467	1.31	cps
Ytterbium	172-1	630	687	620	646	5.57	cps
Ytterbium	172-2	197	233	287	239	18.94	cps
Ytterbium	176-1	2360	2400	2420	2394	1.28	cps
Ytterbium	176-2	413	407	487	436	10.19	cps
Yttrium	89-1	29402855	29441591	29310014	29384820	0.23	cps
Yttrium	89-2	1974678	1987737	1960744	1974386	0.68	cps
Zinc	66-2	5698	5891	6261	5950	4.81	cps
Zirconium	90-1	19127	20135	20305	19856	3.21	cps
Zirconium	91-1	4277	4351	4441	4356	1.88	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2094	1964	1720	1926	9.84	cps
Antimony	121-1	280	270	257	269	4.35	cps
Arsenic	75-2	30	23	50	34	40.30	cps
Barium	135-1	76149	77087	76655	76631	0.61	cps
Barium	137-1	133464	131626	132747	132612	0.70	cps
Beryllium	9-1	457	514	525	499	7.25	cps
Bismuth	209-1	13458262	13617453	13377329	13484348	0.91	cps
Bismuth	209-2	4977382	4930764	4889272	4932472	0.89	cps
Bromine	81-1	119609	135655	141798	132354	8.66	cps
Cadmium	108-1	30	43	40	38	18.36	cps
Cadmium	106-1	8529	8639	8583	8584	0.64	cps
Cadmium	111-1	5993	6057	6057	6036	0.61	cps
Calcium	43-1	27056737	27117974	27281991	27152234	0.43	cps
Calcium	44-1	436161154	438755860	437975273	437630762	0.30	cps
Carbon	12-1	16363821	15657038	14879545	15633468	4.75	cps
Carbon	12-2	91100	88297	85393	88263	3.23	cps
Chlorine	35-1	5224428	5927324	6333838	5828530	9.63	cps
Chlorine	35-2	24838	26104	25546	25496	2.49	cps
Chromium	52-2	1587	1373	1513	1491	7.27	cps
Cobalt	59-2	483	437	393	438	10.28	cps
Copper	63-2	3320	3467	3437	3408	2.27	cps
Dysprosium	156-1	160	180	167	169	6.03	cps
Dysprosium	156-2	57	60	50	56	9.17	cps
Erbium	164-1	233	280	273	262	9.63	cps
Erbium	164-2	67	43	57	56	21.08	cps
Gadolinium	160-1	297	257	267	273	7.62	cps
Gadolinium	160-2	40	77	73	63	32.01	cps
Holmium	165-1	22324675	22093023	22226966	22214888	0.52	cps
Holmium	165-2	7035485	7086743	6960564	7027597	0.90	cps
Indium	115-1	16494061	16611770	16788756	16631529	0.89	cps
Indium	115-2	1455152	1468193	1447663	1457003	0.71	cps
Iron	54-2	6492	6625	6942	6686	3.46	cps
Iron	56-2	117055	118817	117795	117889	0.75	cps
Iron	57-2	3497	3791	3627	3638	4.04	cps
Krypton	83-1	350	270	383	334	17.41	cps
Lead	206-1	3367	3370	3507	3415	2.34	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2867	2970	2997	2945	2.33	cps
Lead	208-1	13406	13256	13433	13365	0.71	cps
Lithium	6-1	8393339	8405035	8070768	8289714	2.29	cps
Magnesium	24-2	30683795	30691034	30358097	30577642	0.62	cps
Manganese	55-2	16660	16136	16546	16447	1.68	cps
Molybdenum	94-1	1757	1757	1827	1780	2.27	cps
Molybdenum	95-1	1037	1023	1027	1029	0.67	cps
Molybdenum	96-1	1237	1063	1330	1210	11.19	cps
Molybdenum	97-1	607	530	573	570	6.74	cps
Molybdenum	98-1	1260	1227	1427	1305	8.22	cps
Neodymium	150-1	227	247	177	217	16.64	cps
Neodymium	150-2	43	30	27	33	26.45	cps
Nickel	60-2	1483	1623	1583	1563	4.61	cps
Phosphorus	31-2	103	107	120	110	8.02	cps
Potassium	39-2	453916	460639	453967	456174	0.85	cps
Rhodium	103-1	14963456	15028731	15196978	15063055	0.80	cps
Rhodium	103-2	5570670	5549089	5447153	5522304	1.19	cps
Scandium	45-1	11769480	11887891	11789157	11815510	0.54	cps
Scandium	45-2	212465	214767	210532	212588	1.00	cps
Selenium	82-1	43	153	7	68	112.61	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	3	0	27	10	145.32	cps
Silicon	28-1	71488296	72789757	72354931	72210994	0.92	cps
Silver	107-1	417	433	367	406	8.55	cps
Silver	109-1	133	163	260	186	35.68	cps
Sodium	23-2	18238954	18044852	17963740	18082515	0.78	cps
Strontium	86-1	72802196	72313852	72310824	72475624	0.39	cps
Strontium	88-1	629008311	626054111	628212417	627758280	0.24	cps
Sulfur	34-1	37207563	37850817	37595344	37551241	0.86	cps
Terbium	159-1	22371257	22918023	22478093	22589124	1.28	cps
Terbium	159-2	6820619	6772224	6712022	6768289	0.80	cps
Thallium	203-1	690	743	750	728	4.52	cps
Thallium	205-1	1904	1797	1777	1826	3.73	cps
Tin	118-1	3240	3240	3010	3164	4.20	cps
Titanium	47-1	2900	2960	2990	2950	1.55	cps
Uranium	238-1	2147	2150	2017	2105	3.61	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-07	Instrumnet Name :	P8
Client Sample ID :	ME2991	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:09:40	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	353	377	363	364	3.21	cps
Ytterbium	172-1	157	160	193	170	11.93	cps
Ytterbium	172-2	67	67	53	62	12.38	cps
Ytterbium	176-1	1997	2080	2067	2048	2.19	cps
Ytterbium	176-2	277	283	397	319	21.15	cps
Yttrium	89-1	29426295	29596225	29670124	29564215	0.42	cps
Yttrium	89-2	1949589	1943851	1926261	1939900	0.63	cps
Zinc	66-2	530	583	483	532	9.40	cps
Zirconium	90-1	3440	3524	3751	3572	4.49	cps
Zirconium	91-1	700	790	790	760	6.84	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6580413	6584825	6574966	6580068	0.08	cps
Antimony	121-1	28637	27962	29088	28562	1.98	cps
Arsenic	75-2	23056	22785	23192	23011	0.90	cps
Barium	135-1	7529794	7707270	7589024	7608696	1.19	cps
Barium	137-1	12844696	13080318	13020067	12981694	0.94	cps
Beryllium	9-1	33970	34126	34112	34069	0.25	cps
Bismuth	209-1	13079546	12907847	13164136	13050510	1.00	cps
Bismuth	209-2	4842497	4812200	4859291	4837996	0.49	cps
Bromine	81-1	894971	974183	1010596	959917	6.16	cps
Cadmium	108-1	2667	2874	2914	2818	4.70	cps
Cadmium	106-1	15883	16049	15515	15816	1.73	cps
Cadmium	111-1	25654	25970	25051	25558	1.83	cps
Calcium	43-1	44355393	45585488	46102944	45347942	1.98	cps
Calcium	44-1	717470469	736019082	740970469	731486674	1.69	cps
Carbon	12-1	64042737	69422284	71749204	68404742	5.78	cps
Carbon	12-2	469590	471199	473048	471279	0.37	cps
Chlorine	35-1	11723454	13543184	14236468	13167702	9.86	cps
Chlorine	35-2	59073	59214	58946	59078	0.23	cps
Chromium	52-2	847903	845864	844155	845974	0.22	cps
Cobalt	59-2	702008	704470	710366	705615	0.61	cps
Copper	63-2	2573913	2576224	2567293	2572477	0.18	cps
Dysprosium	156-1	557324	559251	555699	557425	0.32	cps
Dysprosium	156-2	173142	172201	173804	173049	0.47	cps
Erbium	164-1	491033	493921	495436	493463	0.45	cps
Erbium	164-2	151990	152411	153892	152764	0.65	cps
Gadolinium	160-1	538535	545589	539069	541064	0.73	cps
Gadolinium	160-2	207952	208281	206721	207651	0.40	cps
Holmium	165-1	22414209	21991348	22290017	22231858	0.98	cps
Holmium	165-2	7242828	7192364	7402165	7279119	1.50	cps
Indium	115-1	16220474	16025617	16105746	16117279	0.61	cps
Indium	115-2	1448161	1442567	1460746	1450491	0.64	cps
Iron	54-2	31987942	32212916	31878074	32026311	0.53	cps
Iron	56-2	587087205	588243565	589552138	588294302	0.21	cps
Iron	57-2	14779828	14627255	14885749	14764277	0.88	cps
Krypton	83-1	1017	903	953	958	5.93	cps
Lead	206-1	4239123	4199542	4222638	4220434	0.47	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3433994	3505557	3429482	3456344	1.23	cps
Lead	208-1	16146977	16283170	16344537	16258228	0.62	cps
Lithium	6-1	8274220	8374986	8333409	8327539	0.61	cps
Magnesium	24-2	71925289	71650689	71907016	71827664	0.21	cps
Manganese	55-2	11976470	12003344	11988414	11989410	0.11	cps
Molybdenum	94-1	583043	590574	591215	588277	0.77	cps
Molybdenum	95-1	360962	367531	368392	365628	1.11	cps
Molybdenum	96-1	452168	459260	462206	457878	1.13	cps
Molybdenum	97-1	228393	230395	229505	229431	0.44	cps
Molybdenum	98-1	594709	605009	599185	599635	0.86	cps
Neodymium	150-1	763132	777539	776720	772464	1.05	cps
Neodymium	150-2	173892	174215	173493	173867	0.21	cps
Nickel	60-2	499931	506157	503538	503209	0.62	cps
Phosphorus	31-2	17911	17617	17527	17685	1.14	cps
Potassium	39-2	2977375	2955157	2988355	2973629	0.57	cps
Rhodium	103-1	14195544	14390242	14361254	14315680	0.73	cps
Rhodium	103-2	5420426	5362474	5444930	5409277	0.78	cps
Scandium	45-1	13073614	13067537	13158482	13099878	0.39	cps
Scandium	45-2	234568	234906	236835	235436	0.52	cps
Selenium	82-1	1597	1730	1644	1657	4.08	cps
Selenium	77-2	823	853	900	859	4.50	cps
Selenium	78-2	600	497	507	534	10.66	cps
Silicon	28-1	908239666	933513293	928535266	923429408	1.45	cps
Silver	107-1	14955	15516	15275	15249	1.84	cps
Silver	109-1	14104	14428	14561	14364	1.64	cps
Sodium	23-2	36793453	37132805	36878703	36934987	0.48	cps
Strontium	86-1	31797020	32384266	32503695	32228327	1.17	cps
Strontium	88-1	275364683	280788516	280397382	278850194	1.08	cps
Sulfur	34-1	9115124	9266022	9314281	9231809	1.13	cps
Terbium	159-1	22947725	22780017	22595338	22774360	0.77	cps
Terbium	159-2	6941042	6990769	6919490	6950434	0.53	cps
Thallium	203-1	39787	40473	39831	40030	0.96	cps
Thallium	205-1	94527	95606	94786	94973	0.59	cps
Tin	118-1	253423	254036	255861	254440	0.50	cps
Titanium	47-1	2710329	2817444	2846634	2791469	2.57	cps
Uranium	238-1	1511415	1506815	1500311	1506180	0.37	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:12:54	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	648606	640678	646440	645242	0.64	cps
Ytterbium	172-1	146500	147747	148041	147429	0.55	cps
Ytterbium	172-2	56998	56677	56583	56753	0.38	cps
Ytterbium	176-1	96456	98682	96835	97324	1.22	cps
Ytterbium	176-2	37557	37660	37664	37627	0.16	cps
Yttrium	89-1	36422048	36179520	36777107	36459558	0.82	cps
Yttrium	89-2	2504728	2468007	2517130	2496622	1.02	cps
Zinc	66-2	670928	671446	670340	670905	0.08	cps
Zirconium	90-1	1033680	1053550	1055301	1047510	1.15	cps
Zirconium	91-1	228115	231400	230970	230162	0.78	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	713	753	793	753	5.31	cps
Antimony	121-1	333	330	317	327	2.70	cps
Arsenic	75-2	40	20	10	23	65.47	cps
Barium	135-1	298314	296298	297417	297343	0.34	cps
Barium	137-1	517324	520004	511323	516217	0.86	cps
Beryllium	9-1	562	527	469	520	9.12	cps
Bismuth	209-1	14283769	14232639	14538708	14351705	1.14	cps
Bismuth	209-2	5394514	5427176	5347581	5389757	0.74	cps
Bromine	81-1	203406	209656	212291	208451	2.19	cps
Cadmium	108-1	60	67	63	63	5.27	cps
Cadmium	106-1	8963	8993	8619	8858	2.34	cps
Cadmium	111-1	6329	6365	6086	6260	2.42	cps
Calcium	43-1	12041396	12084781	11923349	12016509	0.70	cps
Calcium	44-1	183799331	182140397	180356677	182098802	0.95	cps
Carbon	12-1	10126174	10241410	10361146	10242910	1.15	cps
Carbon	12-2	66158	65478	64280	65305	1.46	cps
Chlorine	35-1	5000436	5309177	5570119	5293244	5.39	cps
Chlorine	35-2	21342	21443	21169	21318	0.65	cps
Chromium	52-2	1483	1347	1267	1366	8.02	cps
Cobalt	59-2	297	260	257	271	8.19	cps
Copper	63-2	2884	2974	2874	2910	1.89	cps
Dysprosium	156-1	377	220	257	284	28.81	cps
Dysprosium	156-2	40	17	23	27	45.07	cps
Erbium	164-1	117	150	187	151	23.17	cps
Erbium	164-2	43	40	37	40	8.32	cps
Gadolinium	160-1	180	197	163	180	9.26	cps
Gadolinium	160-2	37	53	23	38	39.79	cps
Holmium	165-1	23073937	23082405	23595975	23250772	1.29	cps
Holmium	165-2	7467536	7611134	7508506	7529058	0.98	cps
Indium	115-1	18135709	17899913	18083089	18039570	0.69	cps
Indium	115-2	1633087	1644536	1642176	1639933	0.37	cps
Iron	54-2	20965	21326	20845	21046	1.19	cps
Iron	56-2	385038	383690	381526	383418	0.46	cps
Iron	57-2	9997	9477	9957	9810	2.95	cps
Krypton	83-1	270	313	280	288	7.88	cps
Lead	206-1	3677	3621	3447	3582	3.35	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2890	3164	2914	2989	5.07	cps
Lead	208-1	14473	14430	13586	14163	3.53	cps
Lithium	6-1	9040297	9032920	9112632	9061949	0.49	cps
Magnesium	24-2	15193279	15177271	15070295	15146948	0.44	cps
Manganese	55-2	15008	15131	15622	15254	2.13	cps
Molybdenum	94-1	3717	3707	3287	3570	6.88	cps
Molybdenum	95-1	3440	3324	3457	3407	2.13	cps
Molybdenum	96-1	3957	3794	3867	3873	2.11	cps
Molybdenum	97-1	2114	2217	2080	2137	3.34	cps
Molybdenum	98-1	5551	5414	5411	5459	1.46	cps
Neodymium	150-1	107	103	97	102	4.98	cps
Neodymium	150-2	23	13	7	14	58.06	cps
Nickel	60-2	1050	957	1023	1010	4.76	cps
Phosphorus	31-2	167	193	173	178	7.81	cps
Potassium	39-2	454740	455736	450340	453605	0.63	cps
Rhodium	103-1	16275053	16281900	16593837	16383597	1.11	cps
Rhodium	103-2	6074821	6142802	6007540	6075054	1.11	cps
Scandium	45-1	12955596	12739742	13077712	12924350	1.32	cps
Scandium	45-2	226368	227348	223463	225727	0.90	cps
Selenium	82-1	137	83	100	107	25.58	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	0	13	9	86.60	cps
Silicon	28-1	129459975	129444901	132129138	130344671	1.19	cps
Silver	107-1	733	713	710	719	1.76	cps
Silver	109-1	190	170	157	172	9.74	cps
Sodium	23-2	23431548	23279707	23291922	23334392	0.36	cps
Strontium	86-1	296122676	293654196	296562056	295446309	0.53	cps
Strontium	88-1	2611571694	2584120228	2618141668	2604611197	0.69	cps
Sulfur	34-1	5085985	5142652	5112773	5113803	0.55	cps
Terbium	159-1	23940187	23573712	24208801	23907567	1.33	cps
Terbium	159-2	7319864	7423242	7132506	7291870	2.02	cps
Thallium	203-1	627	600	520	582	9.53	cps
Thallium	205-1	1420	1540	1360	1440	6.36	cps
Tin	118-1	4571	4541	4587	4566	0.52	cps
Titanium	47-1	2910	2970	2957	2946	1.07	cps
Uranium	238-1	5161	5191	5281	5211	1.20	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-09	Instrumnet Name :	P8
Client Sample ID :	ME29A4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:16:01	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	253	217	253	241	8.78	cps
Ytterbium	172-1	143	117	153	138	13.76	cps
Ytterbium	172-2	63	53	57	58	8.81	cps
Ytterbium	176-1	2117	2047	2400	2188	8.55	cps
Ytterbium	176-2	377	417	323	372	12.58	cps
Yttrium	89-1	31836437	31107886	32189688	31711337	1.74	cps
Yttrium	89-2	2122297	2175512	2096743	2131517	1.89	cps
Zinc	66-2	883	853	940	892	4.93	cps
Zirconium	90-1	4607	4721	4694	4674	1.27	cps
Zirconium	91-1	1080	1007	1007	1031	4.11	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	607	663	683	651	6.11	cps
Antimony	121-1	230	280	187	232	20.11	cps
Arsenic	75-2	23	7	33	21	63.80	cps
Barium	135-1	62985	63689	63243	63306	0.56	cps
Barium	137-1	109546	110651	110329	110175	0.52	cps
Beryllium	9-1	451	464	430	448	3.81	cps
Bismuth	209-1	13402189	13327919	13549204	13426437	0.84	cps
Bismuth	209-2	4997862	4988617	4907308	4964595	1.00	cps
Bromine	81-1	123235	134773	136719	131576	5.54	cps
Cadmium	108-1	50	53	57	53	6.25	cps
Cadmium	106-1	8012	8636	8259	8303	3.78	cps
Cadmium	111-1	5644	6058	5788	5830	3.61	cps
Calcium	43-1	26922247	27236215	27271274	27143245	0.71	cps
Calcium	44-1	435323580	439532073	436215834	437023829	0.51	cps
Carbon	12-1	8147836	8659318	8930218	8579124	4.63	cps
Carbon	12-2	61374	62432	62341	62049	0.95	cps
Chlorine	35-1	4130542	4473694	4617469	4407235	5.68	cps
Chlorine	35-2	18562	18055	18575	18397	1.61	cps
Chromium	52-2	1110	1090	1163	1121	3.38	cps
Cobalt	59-2	440	333	360	378	14.69	cps
Copper	63-2	2530	2654	2537	2574	2.70	cps
Dysprosium	156-1	393	330	330	351	10.41	cps
Dysprosium	156-2	50	57	50	52	7.37	cps
Erbium	164-1	257	347	253	286	18.54	cps
Erbium	164-2	80	93	43	72	35.85	cps
Gadolinium	160-1	263	243	280	262	7.00	cps
Gadolinium	160-2	77	123	123	108	25.00	cps
Holmium	165-1	22113978	22559117	22120572	22264556	1.15	cps
Holmium	165-2	7164066	7044259	7050632	7086319	0.95	cps
Indium	115-1	16817072	17044451	16876911	16912812	0.70	cps
Indium	115-2	1483840	1477987	1445989	1469272	1.39	cps
Iron	54-2	5521	5344	5434	5433	1.63	cps
Iron	56-2	98047	97863	98222	98044	0.18	cps
Iron	57-2	3067	3240	3084	3130	3.06	cps
Krypton	83-1	323	337	300	320	5.80	cps
Lead	206-1	3294	3017	3110	3140	4.48	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2847	2780	2650	2759	3.63	cps
Lead	208-1	12829	12669	12623	12707	0.85	cps
Lithium	6-1	8604637	8666101	8359055	8543264	1.90	cps
Magnesium	24-2	33838042	33142716	33846098	33608952	1.20	cps
Manganese	55-2	32654	32821	33259	32911	0.95	cps
Molybdenum	94-1	3120	2947	3127	3065	3.33	cps
Molybdenum	95-1	3434	3614	3420	3489	3.10	cps
Molybdenum	96-1	3654	3951	3684	3763	4.34	cps
Molybdenum	97-1	2197	1970	2257	2141	7.06	cps
Molybdenum	98-1	5364	5585	5645	5531	2.67	cps
Neodymium	150-1	297	273	273	281	4.79	cps
Neodymium	150-2	77	87	60	74	18.10	cps
Nickel	60-2	930	873	917	907	3.27	cps
Phosphorus	31-2	143	133	157	144	8.10	cps
Potassium	39-2	663763	662143	651089	658998	1.05	cps
Rhodium	103-1	15232536	15408863	15288114	15309838	0.59	cps
Rhodium	103-2	5705337	5668686	5563792	5645938	1.30	cps
Scandium	45-1	12130566	12066820	12062904	12086763	0.31	cps
Scandium	45-2	217937	215715	212543	215398	1.26	cps
Selenium	82-1	77	143	133	118	30.53	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	7	17	9	78.08	cps
Silicon	28-1	77844544	80898000	80064734	79602426	1.98	cps
Silver	107-1	377	403	550	443	21.06	cps
Silver	109-1	120	137	240	166	39.27	cps
Sodium	23-2	14984181	14490447	14755353	14743327	1.68	cps
Strontium	86-1	71779217	71048404	72005462	71611028	0.70	cps
Strontium	88-1	627619271	618590924	630277737	625495977	0.98	cps
Sulfur	34-1	39397448	40079136	39873928	39783504	0.88	cps
Terbium	159-1	22539399	22811731	22961777	22770969	0.94	cps
Terbium	159-2	6992101	6901497	6612330	6835309	2.90	cps
Thallium	203-1	627	593	563	594	5.33	cps
Thallium	205-1	1347	1333	1320	1333	1.00	cps
Tin	118-1	7062	7122	7255	7146	1.39	cps
Titanium	47-1	2157	2187	2050	2131	3.37	cps
Uranium	238-1	5124	5108	4808	5013	3.56	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-10	Instrumnet Name :	P8
Client Sample ID :	ME29A5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:19:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	377	383	427	396	6.86	cps
Ytterbium	172-1	190	153	177	173	10.71	cps
Ytterbium	172-2	70	57	63	63	10.52	cps
Ytterbium	176-1	2070	2097	2300	2156	5.84	cps
Ytterbium	176-2	323	320	363	336	7.19	cps
Yttrium	89-1	29861860	30165109	30308661	30111877	0.76	cps
Yttrium	89-2	1968841	2010153	1961214	1980069	1.33	cps
Zinc	66-2	580	593	663	612	7.31	cps
Zirconium	90-1	3270	3234	3444	3316	3.38	cps
Zirconium	91-1	677	763	650	697	8.51	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	400	377	431	17.40	cps
Antimony	121-1	297	243	300	280	11.36	cps
Arsenic	75-2	53	33	40	42	24.12	cps
Barium	135-1	167930	167711	168554	168065	0.26	cps
Barium	137-1	291445	290815	290868	291042	0.12	cps
Beryllium	9-1	549	550	612	570	6.39	cps
Bismuth	209-1	13685722	13610730	13379400	13558617	1.18	cps
Bismuth	209-2	5014616	5085834	4904450	5001633	1.83	cps
Bromine	81-1	134472	163956	179782	159403	14.43	cps
Cadmium	108-1	50	33	57	47	25.76	cps
Cadmium	106-1	8182	8316	8019	8172	1.82	cps
Cadmium	111-1	5779	5901	5650	5777	2.17	cps
Calcium	43-1	16634564	16460309	16621545	16572139	0.59	cps
Calcium	44-1	263985516	264247483	266303183	264845394	0.48	cps
Carbon	12-1	8244348	8741243	9125364	8703651	5.07	cps
Carbon	12-2	61518	61364	61287	61390	0.19	cps
Chlorine	35-1	21719414	23702144	24469523	23297027	6.09	cps
Chlorine	35-2	97683	97691	98301	97892	0.36	cps
Chromium	52-2	1287	1507	1460	1418	8.18	cps
Cobalt	59-2	393	433	447	424	6.54	cps
Copper	63-2	2927	2984	2974	2961	1.02	cps
Dysprosium	156-1	183	180	163	176	6.10	cps
Dysprosium	156-2	47	37	23	36	32.93	cps
Erbium	164-1	227	200	237	221	8.57	cps
Erbium	164-2	53	47	50	50	6.66	cps
Gadolinium	160-1	220	193	137	183	23.21	cps
Gadolinium	160-2	40	53	53	49	15.74	cps
Holmium	165-1	22362802	22419847	22206783	22329811	0.49	cps
Holmium	165-2	7283004	7213089	7129099	7208398	1.07	cps
Indium	115-1	16915894	16608530	16753065	16759163	0.92	cps
Indium	115-2	1492131	1503790	1471087	1489003	1.11	cps
Iron	54-2	302922	302044	301261	302076	0.28	cps
Iron	56-2	5905298	5801802	5754579	5820560	1.32	cps
Iron	57-2	142925	139872	139670	140822	1.30	cps
Krypton	83-1	343	270	353	322	14.12	cps
Lead	206-1	3010	3227	3110	3116	3.48	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2637	2654	2640	2644	0.33	cps
Lead	208-1	11959	12492	12129	12193	2.24	cps
Lithium	6-1	8456628	8385722	8411952	8418101	0.43	cps
Magnesium	24-2	24606643	24192156	24289218	24362672	0.89	cps
Manganese	55-2	137299	136801	135744	136615	0.58	cps
Molybdenum	94-1	15092	15135	15225	15151	0.45	cps
Molybdenum	95-1	20125	19968	20288	20127	0.80	cps
Molybdenum	96-1	22078	22138	22188	22134	0.25	cps
Molybdenum	97-1	12359	12512	12966	12612	2.50	cps
Molybdenum	98-1	32608	32966	33076	32883	0.74	cps
Neodymium	150-1	140	197	137	158	21.37	cps
Neodymium	150-2	33	30	33	32	5.97	cps
Nickel	60-2	1203	1160	1203	1189	2.10	cps
Phosphorus	31-2	133	147	170	150	12.37	cps
Potassium	39-2	791320	795439	788933	791897	0.42	cps
Rhodium	103-1	15211994	14978766	14867610	15019457	1.17	cps
Rhodium	103-2	5650623	5635851	5568255	5618243	0.78	cps
Scandium	45-1	12052392	12242366	11895667	12063475	1.44	cps
Scandium	45-2	218438	219934	216673	218348	0.75	cps
Selenium	82-1	37	143	133	104	56.40	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	7	10	7	50.03	cps
Silicon	28-1	135826155	136147498	136342611	136105421	0.19	cps
Silver	107-1	513	517	487	506	3.25	cps
Silver	109-1	177	210	173	187	10.86	cps
Sodium	23-2	85173742	85250905	83828572	84751073	0.94	cps
Strontium	86-1	127824691	132133918	131251685	130403431	1.75	cps
Strontium	88-1	1132101050	1134982223	1144508703	1137197325	0.57	cps
Sulfur	34-1	17658241	17712819	17785280	17718780	0.36	cps
Terbium	159-1	22871858	22817171	22397024	22695351	1.14	cps
Terbium	159-2	6924746	6984200	6795819	6901588	1.40	cps
Thallium	203-1	530	513	457	500	7.69	cps
Thallium	205-1	1290	1087	1093	1157	9.99	cps
Tin	118-1	6051	5775	5965	5930	2.39	cps
Titanium	47-1	2967	3017	2887	2957	2.22	cps
Uranium	238-1	26651	26197	26815	26555	1.21	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-11	Instrumnet Name :	P8
Client Sample ID :	ME29A7	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:22:33	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	433	480	447	453	5.30	cps
Ytterbium	172-1	180	157	173	170	7.07	cps
Ytterbium	172-2	33	43	63	47	32.74	cps
Ytterbium	176-1	2047	2157	2007	2070	3.75	cps
Ytterbium	176-2	323	383	357	354	8.48	cps
Yttrium	89-1	29925085	29873045	29632047	29810059	0.52	cps
Yttrium	89-2	1988282	2011634	2001603	2000506	0.59	cps
Zinc	66-2	1323	1490	1320	1378	7.06	cps
Zirconium	90-1	10164	9760	9934	9953	2.03	cps
Zirconium	91-1	2357	2374	2304	2345	1.56	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	463	420	387	423	9.08	cps
Antimony	121-1	1300	1230	1247	1259	2.90	cps
Arsenic	75-2	73	67	57	66	12.79	cps
Barium	135-1	695954	696656	691634	694748	0.39	cps
Barium	137-1	1210511	1210164	1202296	1207657	0.38	cps
Beryllium	9-1	399	477	426	434	9.21	cps
Bismuth	209-1	14257598	14174944	14025193	14152578	0.83	cps
Bismuth	209-2	5241573	5376951	5237986	5285503	1.50	cps
Bromine	81-1	74711	75207	74392	74770	0.55	cps
Cadmium	108-1	70	70	63	68	5.68	cps
Cadmium	106-1	9163	8756	8519	8813	3.69	cps
Cadmium	111-1	6579	6264	6103	6315	3.83	cps
Calcium	43-1	9590496	9318519	9540252	9483089	1.53	cps
Calcium	44-1	150847928	148821514	152096011	150588484	1.10	cps
Carbon	12-1	7489478	7873772	8151206	7838152	4.24	cps
Carbon	12-2	55902	55829	56766	56166	0.93	cps
Chlorine	35-1	4568576	4632343	4728605	4643175	1.74	cps
Chlorine	35-2	17798	17634	18305	17912	1.95	cps
Chromium	52-2	1183	1347	1407	1312	8.81	cps
Cobalt	59-2	1463	1453	1647	1521	7.16	cps
Copper	63-2	6251	6405	6315	6324	1.22	cps
Dysprosium	156-1	170	127	140	146	15.25	cps
Dysprosium	156-2	63	37	20	40	54.64	cps
Erbium	164-1	173	220	207	200	12.02	cps
Erbium	164-2	60	57	83	67	21.79	cps
Gadolinium	160-1	190	200	183	191	4.39	cps
Gadolinium	160-2	30	30	23	28	13.86	cps
Holmium	165-1	22841625	22794790	22550706	22729040	0.69	cps
Holmium	165-2	7422188	7368232	7270296	7353572	1.05	cps
Indium	115-1	17371502	17165455	17072200	17203052	0.89	cps
Indium	115-2	1585056	1615315	1597958	1599443	0.95	cps
Iron	54-2	7682	7549	7732	7654	1.24	cps
Iron	56-2	138474	137841	137845	138053	0.26	cps
Iron	57-2	3851	3657	3644	3717	3.11	cps
Krypton	83-1	267	347	233	282	20.64	cps
Lead	206-1	4037	4197	4051	4095	2.17	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3437	3260	3517	3405	3.86	cps
Lead	208-1	15794	16011	15917	15907	0.68	cps
Lithium	6-1	8903013	8816613	8566148	8761925	2.00	cps
Magnesium	24-2	7390263	7377327	7359102	7375564	0.21	cps
Manganese	55-2	76544	77810	76905	77086	0.85	cps
Molybdenum	94-1	13617	13440	13250	13435	1.37	cps
Molybdenum	95-1	22191	22168	22061	22140	0.31	cps
Molybdenum	96-1	23573	23864	24004	23814	0.92	cps
Molybdenum	97-1	13824	13570	13643	13679	0.95	cps
Molybdenum	98-1	35579	35950	35569	35699	0.61	cps
Neodymium	150-1	147	93	170	137	28.76	cps
Neodymium	150-2	23	7	40	23	71.42	cps
Nickel	60-2	4594	4647	4461	4567	2.11	cps
Phosphorus	31-2	127	123	130	127	2.63	cps
Potassium	39-2	126673	126659	125023	126119	0.75	cps
Rhodium	103-1	15911535	15860076	15790351	15853987	0.38	cps
Rhodium	103-2	6056881	5971835	5954227	5994314	0.92	cps
Scandium	45-1	12409926	12231980	12519902	12387270	1.17	cps
Scandium	45-2	223758	220515	221315	221863	0.76	cps
Selenium	82-1	53	-33	113	44	165.92	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	20	23	16	68.90	cps
Silicon	28-1	64468331	62119962	64097541	63561945	1.99	cps
Silver	107-1	490	400	477	456	10.66	cps
Silver	109-1	110	87	80	92	17.08	cps
Sodium	23-2	11732595	11734694	11646557	11704616	0.43	cps
Strontium	86-1	110045988	108086182	108266608	108799593	1.00	cps
Strontium	88-1	945929666	938225159	935586066	939913630	0.57	cps
Sulfur	34-1	4655475	4517691	4592634	4588600	1.50	cps
Terbium	159-1	23482668	23100327	23154362	23245786	0.89	cps
Terbium	159-2	7070223	7081081	7061190	7070832	0.14	cps
Thallium	203-1	1030	993	973	999	2.88	cps
Thallium	205-1	2620	2510	2550	2560	2.18	cps
Tin	118-1	10864	10381	10377	10541	2.66	cps
Titanium	47-1	1597	1377	1620	1531	8.77	cps
Uranium	238-1	156608	154742	156339	155897	0.65	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-12	Instrumnet Name :	P8
Client Sample ID :	ME29A8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:25:49	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	407	357	360	374	7.47	cps
Ytterbium	172-1	160	200	160	173	13.32	cps
Ytterbium	172-2	57	63	83	68	20.47	cps
Ytterbium	176-1	2404	2260	2324	2329	3.08	cps
Ytterbium	176-2	333	317	427	359	16.52	cps
Yttrium	89-1	30277430	30833713	30533341	30548161	0.91	cps
Yttrium	89-2	2035018	2061586	2017689	2038098	1.08	cps
Zinc	66-2	5381	5338	5511	5410	1.67	cps
Zirconium	90-1	3264	3134	3030	3143	3.72	cps
Zirconium	91-1	623	677	683	661	4.97	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	71816	72271	72724	72270	0.63	cps
Antimony	121-1	4664	4851	4581	4699	2.94	cps
Arsenic	75-2	2114	2387	2167	2222	6.52	cps
Barium	135-1	139113	141200	138830	139714	0.93	cps
Barium	137-1	247407	240697	245785	244630	1.43	cps
Beryllium	9-1	600	499	534	544	9.45	cps
Bismuth	209-1	14578931	14136890	14063305	14259709	1.96	cps
Bismuth	209-2	5384836	5265463	5303901	5318067	1.15	cps
Bromine	81-1	336268	363667	384765	361567	6.73	cps
Cadmium	108-1	897	817	803	839	6.02	cps
Cadmium	106-1	8730	8796	9267	8931	3.28	cps
Cadmium	111-1	6370	6596	6891	6619	3.95	cps
Calcium	43-1	5493246	5459345	5379977	5444189	1.07	cps
Calcium	44-1	88485479	88619472	87189845	88098265	0.90	cps
Carbon	12-1	11624466	12050471	12399959	12024966	3.23	cps
Carbon	12-2	82500	82396	83036	82644	0.42	cps
Chlorine	35-1	4896320	5337713	5496441	5243491	5.93	cps
Chlorine	35-2	21967	21957	22341	22088	0.99	cps
Chromium	52-2	10364	10217	10527	10369	1.50	cps
Cobalt	59-2	4444	4287	4311	4347	1.94	cps
Copper	63-2	9503	9630	9713	9616	1.10	cps
Dysprosium	156-1	2174	2117	2210	2167	2.17	cps
Dysprosium	156-2	653	563	660	626	8.63	cps
Erbium	164-1	1733	1817	1647	1732	4.91	cps
Erbium	164-2	573	583	517	558	6.45	cps
Gadolinium	160-1	2150	2117	2220	2162	2.44	cps
Gadolinium	160-2	743	753	787	761	2.98	cps
Holmium	165-1	23188266	22777527	22832368	22932720	0.97	cps
Holmium	165-2	7370264	7374346	7363356	7369322	0.08	cps
Indium	115-1	17522263	17333050	17065925	17307079	1.32	cps
Indium	115-2	1595757	1514349	1513977	1541361	3.06	cps
Iron	54-2	133393	133581	133927	133634	0.20	cps
Iron	56-2	2612026	2536284	2547755	2565355	1.59	cps
Iron	57-2	62654	61957	60769	61793	1.54	cps
Krypton	83-1	273	300	243	272	10.41	cps
Lead	206-1	16674	16935	17255	16955	1.72	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14241	13841	14048	14043	1.43	cps
Lead	208-1	66073	64987	65809	65623	0.86	cps
Lithium	6-1	9033296	8666069	8731466	8810277	2.22	cps
Magnesium	24-2	212246	211062	210382	211230	0.45	cps
Manganese	55-2	28165	27163	27380	27569	1.91	cps
Molybdenum	94-1	1058211	1064408	1041078	1054565	1.15	cps
Molybdenum	95-1	1935845	1979893	1941297	1952345	1.23	cps
Molybdenum	96-1	2109811	2165328	2091005	2122048	1.82	cps
Molybdenum	97-1	1160571	1163011	1151824	1158469	0.51	cps
Molybdenum	98-1	3176152	3143362	3206336	3175284	0.99	cps
Neodymium	150-1	3054	3077	2904	3011	3.12	cps
Neodymium	150-2	630	703	857	730	15.85	cps
Nickel	60-2	109339	110572	111492	110468	0.98	cps
Phosphorus	31-2	563	530	543	546	3.07	cps
Potassium	39-2	12815184	12492742	12659654	12655860	1.27	cps
Rhodium	103-1	16074273	15552779	15945129	15857394	1.71	cps
Rhodium	103-2	5959355	5848492	5847582	5885143	1.09	cps
Scandium	45-1	12693203	12397253	12165189	12418548	2.13	cps
Scandium	45-2	217103	216622	215756	216494	0.32	cps
Selenium	82-1	463	497	510	490	4.90	cps
Selenium	77-2	10	7	13	10	33.30	cps
Selenium	78-2	27	17	13	19	36.75	cps
Silicon	28-1	60319457	61125784	60611702	60685648	0.67	cps
Silver	107-1	480	427	443	450	6.06	cps
Silver	109-1	193	297	240	243	21.27	cps
Sodium	23-2	31297891	31839700	31382142	31506578	0.93	cps
Strontium	86-1	5222111	5218640	5226960	5222571	0.08	cps
Strontium	88-1	44638661	45551111	45251683	45147152	1.03	cps
Sulfur	34-1	3638562	3610978	3565057	3604865	1.03	cps
Terbium	159-1	23514962	23265605	23609143	23463237	0.76	cps
Terbium	159-2	7069001	6936279	6973597	6992959	0.98	cps
Thallium	203-1	847	897	863	869	2.93	cps
Thallium	205-1	2147	2117	2044	2102	2.53	cps
Tin	118-1	4437	4407	4661	4502	3.08	cps
Titanium	47-1	30772	30383	30463	30539	0.67	cps
Uranium	238-1	8253	8033	8410	8232	2.30	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-13	Instrumnet Name :	P8
Client Sample ID :	ME29B0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:29:04	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14958	14791	15031	14927	0.82	cps
Ytterbium	172-1	610	570	533	571	6.71	cps
Ytterbium	172-2	193	207	230	210	8.84	cps
Ytterbium	176-1	2627	2487	2574	2563	2.76	cps
Ytterbium	176-2	493	490	453	479	4.63	cps
Yttrium	89-1	30818106	30240027	30628539	30562224	0.96	cps
Yttrium	89-2	2047201	1992204	1997956	2012454	1.50	cps
Zinc	66-2	3544	3424	3520	3496	1.82	cps
Zirconium	90-1	15669	16953	15356	15993	5.29	cps
Zirconium	91-1	3370	3427	3374	3390	0.94	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	23990	24384	23746	24040	1.34	cps
Antimony	121-1	12636	12743	12316	12565	1.77	cps
Arsenic	75-2	1167	1180	1193	1180	1.13	cps
Barium	135-1	50905	51615	50219	50913	1.37	cps
Barium	137-1	88168	87229	88064	87820	0.59	cps
Beryllium	9-1	414	399	479	430	9.88	cps
Bismuth	209-1	14646653	14184599	14129854	14320369	1.98	cps
Bismuth	209-2	5301003	5335459	5286456	5307639	0.47	cps
Bromine	81-1	163201	165743	170134	166359	2.11	cps
Cadmium	108-1	253	327	343	308	15.56	cps
Cadmium	106-1	8946	9093	8679	8906	2.35	cps
Cadmium	111-1	6495	6523	6385	6468	1.13	cps
Calcium	43-1	2691895	2692272	2700472	2694880	0.18	cps
Calcium	44-1	43573198	42926245	43563408	43354284	0.86	cps
Carbon	12-1	10801118	11228328	11283262	11104236	2.38	cps
Carbon	12-2	74544	75167	74527	74746	0.49	cps
Chlorine	35-1	2858015	3060035	3170677	3029576	5.23	cps
Chlorine	35-2	12599	12229	12192	12340	1.82	cps
Chromium	52-2	1707	1767	1767	1747	1.98	cps
Cobalt	59-2	1493	1327	1377	1399	6.11	cps
Copper	63-2	33376	33486	33322	33395	0.25	cps
Dysprosium	156-1	170	150	133	151	12.15	cps
Dysprosium	156-2	20	43	37	33	36.05	cps
Erbium	164-1	170	203	187	187	8.93	cps
Erbium	164-2	60	63	30	51	35.92	cps
Gadolinium	160-1	187	197	197	193	2.99	cps
Gadolinium	160-2	50	60	83	64	26.54	cps
Holmium	165-1	23383608	22841955	22720335	22981966	1.54	cps
Holmium	165-2	7287918	7432144	7193121	7304394	1.65	cps
Indium	115-1	17625669	17193560	17508200	17442476	1.28	cps
Indium	115-2	1489503	1573090	1529603	1530732	2.73	cps
Iron	54-2	6088	5801	5698	5862	3.45	cps
Iron	56-2	104499	105880	105319	105233	0.66	cps
Iron	57-2	2714	2857	2590	2720	4.91	cps
Krypton	83-1	237	230	290	252	13.04	cps
Lead	206-1	11959	12079	11662	11900	1.80	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9834	10044	9957	9945	1.06	cps
Lead	208-1	47051	46904	46353	46769	0.79	cps
Lithium	6-1	8850532	8634477	8519323	8668111	1.94	cps
Magnesium	24-2	51353	52481	52447	52094	1.23	cps
Manganese	55-2	4821	4874	4741	4812	1.40	cps
Molybdenum	94-1	283256	282312	279587	281718	0.68	cps
Molybdenum	95-1	492918	493231	484700	490283	0.99	cps
Molybdenum	96-1	525461	524728	530201	526797	0.56	cps
Molybdenum	97-1	310703	311996	306832	309843	0.87	cps
Molybdenum	98-1	804085	805062	785949	798365	1.35	cps
Neodymium	150-1	150	107	153	137	19.05	cps
Neodymium	150-2	30	40	20	30	33.33	cps
Nickel	60-2	62798	62620	63537	62985	0.77	cps
Phosphorus	31-2	317	443	373	378	16.80	cps
Potassium	39-2	6908401	6901816	6847422	6885880	0.49	cps
Rhodium	103-1	16359324	15851178	15853698	16021400	1.83	cps
Rhodium	103-2	5843136	5871631	5818370	5844379	0.46	cps
Scandium	45-1	12313775	12129808	11840987	12094857	1.97	cps
Scandium	45-2	213454	218280	209646	213793	2.02	cps
Selenium	82-1	1037	903	840	927	10.83	cps
Selenium	77-2	7	27	13	16	65.47	cps
Selenium	78-2	53	57	60	57	5.89	cps
Silicon	28-1	88987665	89340785	90343005	89557152	0.79	cps
Silver	107-1	2587	2520	2697	2601	3.43	cps
Silver	109-1	2227	2237	2360	2275	3.27	cps
Sodium	23-2	20564498	20365555	20332278	20420777	0.61	cps
Strontium	86-1	2225151	2211029	2160373	2198851	1.55	cps
Strontium	88-1	19034070	18748811	18891023	18891301	0.76	cps
Sulfur	34-1	2442142	2447644	2423691	2437826	0.51	cps
Terbium	159-1	23523485	23227690	23226584	23325920	0.73	cps
Terbium	159-2	6986298	7017339	6836331	6946656	1.39	cps
Thallium	203-1	650	720	753	708	7.45	cps
Thallium	205-1	1660	1730	1790	1727	3.77	cps
Tin	118-1	4821	4781	4651	4751	1.87	cps
Titanium	47-1	2807	2817	2864	2829	1.07	cps
Uranium	238-1	423	473	373	423	11.81	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-14	Instrumnet Name :	P8
Client Sample ID :	ME29B1	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:32:13	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	70321	70921	70573	70605	0.43	cps
Ytterbium	172-1	110	127	133	123	9.75	cps
Ytterbium	172-2	47	33	33	38	20.39	cps
Ytterbium	176-1	2204	2374	2257	2278	3.82	cps
Ytterbium	176-2	290	340	323	318	8.01	cps
Yttrium	89-1	30898253	30416485	29940919	30418552	1.57	cps
Yttrium	89-2	1924432	1995111	1952217	1957253	1.82	cps
Zinc	66-2	1183	1143	1180	1169	1.90	cps
Zirconium	90-1	1773	1717	1723	1738	1.78	cps
Zirconium	91-1	313	407	433	384	16.39	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4567	4394	4567	4510	2.22	cps
Antimony	121-1	5438	5158	5354	5317	2.71	cps
Arsenic	75-2	73	67	80	73	9.09	cps
Barium	135-1	379031	378976	375381	377796	0.55	cps
Barium	137-1	661296	654081	657588	657655	0.55	cps
Beryllium	9-1	435	404	456	432	6.12	cps
Bismuth	209-1	13836079	13916251	13535913	13762748	1.46	cps
Bismuth	209-2	5029873	5197164	5035668	5087568	1.87	cps
Bromine	81-1	140709	169836	185524	165357	13.75	cps
Cadmium	108-1	90	83	97	90	7.41	cps
Cadmium	106-1	8506	8619	8449	8525	1.02	cps
Cadmium	111-1	6171	6279	6197	6216	0.90	cps
Calcium	43-1	6677510	6672286	6572063	6640620	0.89	cps
Calcium	44-1	108669905	108568532	107635845	108291427	0.53	cps
Carbon	12-1	7554901	8003709	8114237	7890949	3.75	cps
Carbon	12-2	55608	56374	55263	55749	1.02	cps
Chlorine	35-1	10876392	12391926	13014059	12094126	9.09	cps
Chlorine	35-2	53033	53773	52682	53163	1.05	cps
Chromium	52-2	1183	1213	1213	1203	1.44	cps
Cobalt	59-2	2500	2427	2567	2498	2.80	cps
Copper	63-2	9980	10407	10404	10264	2.39	cps
Dysprosium	156-1	533	573	583	563	4.70	cps
Dysprosium	156-2	147	190	133	157	18.91	cps
Erbium	164-1	540	557	490	529	6.56	cps
Erbium	164-2	150	137	147	144	4.80	cps
Gadolinium	160-1	580	523	507	537	7.16	cps
Gadolinium	160-2	197	240	190	209	13.00	cps
Holmium	165-1	22032726	22001248	21950281	21994752	0.19	cps
Holmium	165-2	6996214	7216266	7085876	7099452	1.56	cps
Indium	115-1	16842265	16617390	16760301	16739985	0.68	cps
Indium	115-2	1446508	1529078	1449983	1475190	3.17	cps
Iron	54-2	13697	13977	13860	13845	1.02	cps
Iron	56-2	257883	254163	253090	255045	0.99	cps
Iron	57-2	6341	6855	6632	6609	3.90	cps
Krypton	83-1	290	273	300	288	4.68	cps
Lead	206-1	5635	5871	5761	5756	2.06	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4828	4704	4494	4675	3.61	cps
Lead	208-1	21934	22011	21761	21902	0.58	cps
Lithium	6-1	8657837	8529714	8442616	8543389	1.27	cps
Magnesium	24-2	7817634	7929199	7890328	7879054	0.72	cps
Manganese	55-2	23807	23436	23379	23541	0.99	cps
Molybdenum	94-1	43083	42140	43394	42872	1.52	cps
Molybdenum	95-1	72287	72310	71091	71896	0.97	cps
Molybdenum	96-1	77109	78068	76684	77287	0.92	cps
Molybdenum	97-1	44956	45130	44769	44951	0.40	cps
Molybdenum	98-1	118165	117261	117149	117525	0.47	cps
Neodymium	150-1	620	647	673	647	4.12	cps
Neodymium	150-2	113	83	107	101	15.58	cps
Nickel	60-2	12853	13306	13183	13114	1.79	cps
Phosphorus	31-2	277	247	277	267	6.50	cps
Potassium	39-2	214226	210709	213296	212744	0.86	cps
Rhodium	103-1	15508028	15212776	15277321	15332708	1.01	cps
Rhodium	103-2	5587893	5768592	5647700	5668062	1.62	cps
Scandium	45-1	11905589	11772793	11656796	11778393	1.06	cps
Scandium	45-2	209399	214439	207489	210442	1.71	cps
Selenium	82-1	330	353	390	358	8.45	cps
Selenium	77-2	13	3	0	6	124.93	cps
Selenium	78-2	33	13	40	29	48.05	cps
Silicon	28-1	53206833	53260323	53340038	53269064	0.13	cps
Silver	107-1	230	297	283	270	13.07	cps
Silver	109-1	147	110	110	122	17.32	cps
Sodium	23-2	47544486	47117709	47622004	47428067	0.57	cps
Strontium	86-1	9454785	9270340	9224170	9316432	1.31	cps
Strontium	88-1	80590172	81117802	81075690	80927888	0.36	cps
Sulfur	34-1	2861430	2829679	2856838	2849316	0.60	cps
Terbium	159-1	22944044	22643606	22669572	22752407	0.73	cps
Terbium	159-2	6759633	6920238	6741840	6807237	1.44	cps
Thallium	203-1	1503	1453	1580	1512	4.22	cps
Thallium	205-1	3537	3694	3607	3613	2.17	cps
Tin	118-1	3357	3824	3557	3579	6.54	cps
Titanium	47-1	4531	4407	4331	4423	2.28	cps
Uranium	238-1	533133	536718	532598	534149	0.42	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-15	Instrumnet Name :	P8
Client Sample ID :	ME29A9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:35:30	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	723	723	660	702	5.21	cps
Ytterbium	172-1	263	257	323	281	13.06	cps
Ytterbium	172-2	133	90	117	113	19.29	cps
Ytterbium	176-1	2217	2290	2160	2222	2.93	cps
Ytterbium	176-2	383	330	353	356	7.52	cps
Yttrium	89-1	29633167	29260740	29136120	29343342	0.88	cps
Yttrium	89-2	1878126	1979159	1892310	1916532	2.85	cps
Zinc	66-2	5418	5541	5424	5461	1.27	cps
Zirconium	90-1	4931	4744	4784	4820	2.04	cps
Zirconium	91-1	1060	997	990	1016	3.80	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1983	1787	1950	1907	5.52	cps
Antimony	121-1	1783	1857	1853	1831	2.26	cps
Arsenic	75-2	663	730	760	718	6.89	cps
Barium	135-1	301460	301733	303004	302066	0.27	cps
Barium	137-1	530650	524510	527799	527653	0.58	cps
Beryllium	9-1	401	459	446	435	6.94	cps
Bismuth	209-1	13699541	13637448	13593980	13643656	0.39	cps
Bismuth	209-2	5106491	4957591	5087056	5050379	1.60	cps
Bromine	81-1	228944	253290	264651	248962	7.33	cps
Cadmium	108-1	57	57	70	61	12.59	cps
Cadmium	106-1	8176	8092	7996	8088	1.11	cps
Cadmium	111-1	5753	5668	5618	5680	1.20	cps
Calcium	43-1	17109069	17332925	17172261	17204752	0.67	cps
Calcium	44-1	273368696	281742122	274616723	276575847	1.63	cps
Carbon	12-1	7503469	8108943	8343461	7985291	5.43	cps
Carbon	12-2	58288	57669	57934	57964	0.54	cps
Chlorine	35-1	5879160	6498349	6578005	6318504	6.05	cps
Chlorine	35-2	25716	26548	26815	26360	2.17	cps
Chromium	52-2	11255	11695	11408	11452	1.95	cps
Cobalt	59-2	4001	3847	4154	4001	3.83	cps
Copper	63-2	3917	3967	4104	3996	2.42	cps
Dysprosium	156-1	370	337	393	367	7.77	cps
Dysprosium	156-2	127	70	87	94	30.84	cps
Erbium	164-1	473	550	537	520	7.88	cps
Erbium	164-2	193	133	137	154	21.83	cps
Gadolinium	160-1	470	440	467	459	3.58	cps
Gadolinium	160-2	120	163	153	146	15.59	cps
Holmium	165-1	21895532	22379606	22158058	22144399	1.09	cps
Holmium	165-2	7077212	7179231	7118939	7125127	0.72	cps
Indium	115-1	16388954	16637631	16721582	16582722	1.04	cps
Indium	115-2	1455630	1471449	1473704	1466928	0.67	cps
Iron	54-2	153181	155175	153716	154024	0.67	cps
Iron	56-2	2973783	2977256	2965642	2972227	0.20	cps
Iron	57-2	72054	71672	71622	71783	0.33	cps
Krypton	83-1	317	297	317	310	3.72	cps
Lead	206-1	6502	6158	6145	6268	3.23	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5061	5104	5118	5094	0.58	cps
Lead	208-1	24766	23959	23542	24089	2.58	cps
Lithium	6-1	8384283	8416188	8332188	8377553	0.51	cps
Magnesium	24-2	19534412	19744760	19161166	19480113	1.52	cps
Manganese	55-2	868442	870607	878594	872548	0.61	cps
Molybdenum	94-1	4561	4721	5138	4806	6.20	cps
Molybdenum	95-1	2527	2497	2690	2571	4.05	cps
Molybdenum	96-1	3350	3227	3217	3265	2.28	cps
Molybdenum	97-1	1563	1660	1637	1620	3.11	cps
Molybdenum	98-1	3864	3957	3987	3936	1.63	cps
Neodymium	150-1	460	393	497	450	11.64	cps
Neodymium	150-2	87	87	113	96	16.11	cps
Nickel	60-2	4424	4567	4511	4501	1.60	cps
Phosphorus	31-2	477	567	560	534	9.38	cps
Potassium	39-2	526333	527022	533353	528903	0.73	cps
Rhodium	103-1	14922771	14851309	14947710	14907263	0.34	cps
Rhodium	103-2	5565962	5640909	5734934	5647268	1.50	cps
Scandium	45-1	11530161	11639477	11644656	11604764	0.56	cps
Scandium	45-2	211821	214805	214176	213601	0.74	cps
Selenium	82-1	87	150	103	113	28.97	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	17	0	7	8	107.84	cps
Silicon	28-1	115341802	115596705	115870728	115603078	0.23	cps
Silver	107-1	317	818	410	515	51.75	cps
Silver	109-1	83	93	100	92	9.10	cps
Sodium	23-2	19758383	19789477	19617995	19721952	0.46	cps
Strontium	86-1	72499957	71890042	71935924	72108641	0.47	cps
Strontium	88-1	633481164	620682857	619198884	624454302	1.26	cps
Sulfur	34-1	19820970	19891473	19692171	19801538	0.51	cps
Terbium	159-1	22145000	22524985	22428991	22366325	0.88	cps
Terbium	159-2	6837700	6856095	6943815	6879203	0.82	cps
Thallium	203-1	597	567	587	583	2.62	cps
Thallium	205-1	1273	1220	1203	1232	2.97	cps
Tin	118-1	13123	13257	12913	13097	1.32	cps
Titanium	47-1	3891	4197	4147	4078	4.04	cps
Uranium	238-1	36171	35386	35082	35546	1.58	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-16	Instrumnet Name :	P8
Client Sample ID :	ME29B2	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:38:43	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1533	1530	1443	1502	3.40	cps
Ytterbium	172-1	367	347	427	380	10.96	cps
Ytterbium	172-2	123	120	133	126	5.53	cps
Ytterbium	176-1	2047	2197	2374	2206	7.41	cps
Ytterbium	176-2	360	393	333	362	8.30	cps
Yttrium	89-1	29472690	29081746	29418070	29324169	0.72	cps
Yttrium	89-2	1949170	1944173	1961223	1951522	0.45	cps
Zinc	66-2	1827	1843	1647	1772	6.15	cps
Zirconium	90-1	8906	9113	9050	9023	1.17	cps
Zirconium	91-1	2074	1803	1980	1952	7.02	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	150805	152746	150563	151371	0.79	cps
Antimony	121-1	3751	3987	3874	3871	3.06	cps
Arsenic	75-2	2084	2097	2054	2078	1.07	cps
Barium	135-1	817714	815546	810086	814449	0.48	cps
Barium	137-1	1442313	1416247	1402466	1420342	1.42	cps
Beryllium	9-1	512	507	507	509	0.57	cps
Bismuth	209-1	13610730	12970742	13487794	13356422	2.54	cps
Bismuth	209-2	4853890	4927591	4858463	4879981	0.85	cps
Bromine	81-1	1278955	1543930	1671448	1498111	13.36	cps
Cadmium	108-1	373	427	420	407	7.15	cps
Cadmium	106-1	8683	8493	8283	8486	2.36	cps
Cadmium	111-1	7083	6860	6774	6906	2.31	cps
Calcium	43-1	11901670	11628324	11642390	11724128	1.31	cps
Calcium	44-1	193472417	186242964	184490451	188068611	2.53	cps
Carbon	12-1	23898766	26441124	27365246	25901712	6.93	cps
Carbon	12-2	185292	188212	189106	187536	1.06	cps
Chlorine	35-1	31218160	33071910	33486422	32592164	3.71	cps
Chlorine	35-2	133031	134215	133067	133438	0.50	cps
Chromium	52-2	25004	23656	24157	24273	2.81	cps
Cobalt	59-2	5038	5178	5158	5124	1.48	cps
Copper	63-2	10174	10207	9823	10068	2.11	cps
Dysprosium	156-1	1023	963	933	973	4.71	cps
Dysprosium	156-2	303	340	283	309	9.30	cps
Erbium	164-1	900	837	890	876	3.89	cps
Erbium	164-2	323	357	273	318	13.20	cps
Gadolinium	160-1	920	1090	943	984	9.36	cps
Gadolinium	160-2	373	360	320	351	7.90	cps
Holmium	165-1	22363353	21800047	22037301	22066900	1.28	cps
Holmium	165-2	6945861	7043021	7048064	7012315	0.82	cps
Indium	115-1	16824824	16275163	16061821	16387269	2.40	cps
Indium	115-2	1413611	1433431	1439847	1428963	0.96	cps
Iron	54-2	221385	224222	221426	222345	0.73	cps
Iron	56-2	4199705	4351284	4287953	4279647	1.78	cps
Iron	57-2	102743	102582	102958	102761	0.18	cps
Krypton	83-1	307	340	300	316	6.79	cps
Lead	206-1	140219	140242	139794	140085	0.18	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	114463	115435	114060	114653	0.62	cps
Lead	208-1	540096	536898	539364	538786	0.31	cps
Lithium	6-1	8621779	8536538	8471183	8543167	0.88	cps
Magnesium	24-2	143154	140984	141559	141899	0.79	cps
Manganese	55-2	135489	138208	135937	136545	1.07	cps
Molybdenum	94-1	404933	400526	397760	401073	0.90	cps
Molybdenum	95-1	696859	686078	683688	688875	1.02	cps
Molybdenum	96-1	759632	745486	735045	746721	1.65	cps
Molybdenum	97-1	442319	437605	436970	438965	0.67	cps
Molybdenum	98-1	1141990	1128791	1122071	1130951	0.90	cps
Neodymium	150-1	1357	1450	1280	1362	6.25	cps
Neodymium	150-2	267	287	300	284	5.90	cps
Nickel	60-2	356181	356248	350646	354358	0.91	cps
Phosphorus	31-2	760	747	787	764	2.66	cps
Potassium	39-2	16524342	16510279	16339346	16457989	0.63	cps
Rhodium	103-1	15130121	14736607	14650824	14839184	1.72	cps
Rhodium	103-2	5408244	5450461	5490140	5449615	0.75	cps
Scandium	45-1	11937658	11699910	11629919	11755829	1.37	cps
Scandium	45-2	206637	209566	210523	208909	0.97	cps
Selenium	82-1	793	677	780	750	8.51	cps
Selenium	77-2	10	7	0	6	91.64	cps
Selenium	78-2	30	13	33	26	41.94	cps
Silicon	28-1	32049021	32656426	32972883	32559443	1.44	cps
Silver	107-1	1230	1353	1553	1379	11.83	cps
Silver	109-1	1050	1313	1213	1192	11.15	cps
Sodium	23-2	149402954	150924508	148987744	149771736	0.68	cps
Strontium	86-1	27185774	26346302	26237490	26589855	1.95	cps
Strontium	88-1	237994676	232364223	229402563	233253821	1.87	cps
Sulfur	34-1	1586200	1542069	1542865	1557045	1.62	cps
Terbium	159-1	23010898	22637279	21998599	22548925	2.27	cps
Terbium	159-2	6638827	6819725	6771823	6743458	1.39	cps
Thallium	203-1	843	797	803	814	3.10	cps
Thallium	205-1	2064	1957	2037	2019	2.75	cps
Tin	118-1	7499	7609	7025	7378	4.20	cps
Titanium	47-1	24400	23633	23132	23722	2.69	cps
Uranium	238-1	2140	2077	2210	2142	3.11	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-17	Instrumnet Name :	P8
Client Sample ID :	ME29B3	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:42:00	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9954	10417	9997	10123	2.53	cps
Ytterbium	172-1	357	477	387	407	15.36	cps
Ytterbium	172-2	137	170	137	148	13.02	cps
Ytterbium	176-1	2267	2330	2457	2351	4.12	cps
Ytterbium	176-2	453	457	400	437	7.28	cps
Yttrium	89-1	30400400	29160791	28873806	29478332	2.75	cps
Yttrium	89-2	1913340	1919828	1961690	1931619	1.36	cps
Zinc	66-2	31168	31822	30950	31313	1.45	cps
Zirconium	90-1	11649	10681	10517	10949	5.58	cps
Zirconium	91-1	2594	2450	2460	2501	3.20	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	19917	19804	19810	19844	0.32	cps
Antimony	121-1	14151	13620	13490	13754	2.54	cps
Arsenic	75-2	5338	5348	5474	5387	1.42	cps
Barium	135-1	70395	69547	70163	70035	0.63	cps
Barium	137-1	121856	122438	123554	122616	0.70	cps
Beryllium	9-1	456	392	426	425	7.50	cps
Bismuth	209-1	13943926	13865299	13753914	13854380	0.69	cps
Bismuth	209-2	5071168	5006653	4975095	5017639	0.98	cps
Bromine	81-1	422030	415086	407096	414737	1.80	cps
Cadmium	108-1	453	483	497	478	4.64	cps
Cadmium	106-1	8279	7886	8329	8165	2.98	cps
Cadmium	111-1	6181	6068	6309	6186	1.95	cps
Calcium	43-1	2115519	2127490	2137715	2126908	0.52	cps
Calcium	44-1	34097499	34048375	33709356	33951744	0.62	cps
Carbon	12-1	15804872	16332180	16590295	16242449	2.46	cps
Carbon	12-2	110061	109134	111425	110207	1.05	cps
Chlorine	35-1	4494507	4549091	4470503	4504700	0.89	cps
Chlorine	35-2	17000	16760	16263	16674	2.26	cps
Chromium	52-2	9944	10187	10010	10047	1.25	cps
Cobalt	59-2	2014	2254	2277	2181	6.68	cps
Copper	63-2	14191	14381	13910	14160	1.67	cps
Dysprosium	156-1	750	730	757	746	1.86	cps
Dysprosium	156-2	217	207	203	209	3.32	cps
Erbium	164-1	590	643	693	642	8.05	cps
Erbium	164-2	193	190	183	189	2.70	cps
Gadolinium	160-1	823	730	770	774	6.05	cps
Gadolinium	160-2	240	297	270	269	10.54	cps
Holmium	165-1	22111499	22617155	22077798	22268817	1.36	cps
Holmium	165-2	7034044	6949370	7023792	7002402	0.66	cps
Indium	115-1	16610666	16850807	16457136	16639536	1.19	cps
Indium	115-2	1453813	1450448	1446718	1450326	0.24	cps
Iron	54-2	138359	138446	137249	138018	0.48	cps
Iron	56-2	2649259	2643094	2609254	2633869	0.82	cps
Iron	57-2	63719	63474	64046	63746	0.45	cps
Krypton	83-1	223	250	253	242	6.79	cps
Lead	206-1	142530	142833	139464	141609	1.32	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	115479	114413	113861	114584	0.72	cps
Lead	208-1	541809	541356	536917	540027	0.50	cps
Lithium	6-1	8503224	8264173	8362497	8376631	1.43	cps
Magnesium	24-2	38173	38752	38491	38472	0.75	cps
Manganese	55-2	55467	56484	55420	55791	1.08	cps
Molybdenum	94-1	573643	576382	576607	575544	0.29	cps
Molybdenum	95-1	998811	994038	1001154	998001	0.36	cps
Molybdenum	96-1	1070842	1078163	1066801	1071935	0.54	cps
Molybdenum	97-1	625549	627479	631679	628236	0.50	cps
Molybdenum	98-1	1725657	1742631	1717112	1728467	0.75	cps
Neodymium	150-1	913	1030	927	957	6.67	cps
Neodymium	150-2	193	220	160	191	15.73	cps
Nickel	60-2	99763	100173	100703	100213	0.47	cps
Phosphorus	31-2	1190	1323	1173	1229	6.69	cps
Potassium	39-2	12338063	12454516	12515667	12436082	0.73	cps
Rhodium	103-1	15312983	15156276	15100837	15190032	0.72	cps
Rhodium	103-2	5542578	5572158	5609159	5574632	0.60	cps
Scandium	45-1	11730001	11722591	11560475	11671022	0.82	cps
Scandium	45-2	208967	205876	203580	206141	1.31	cps
Selenium	82-1	477	293	463	411	24.86	cps
Selenium	77-2	0	3	13	6	124.93	cps
Selenium	78-2	23	23	27	24	7.89	cps
Silicon	28-1	403999874	400535354	408169794	404235007	0.95	cps
Silver	107-1	1143	1220	1210	1191	3.50	cps
Silver	109-1	1047	970	933	983	5.88	cps
Sodium	23-2	46813719	46365926	45833548	46337731	1.06	cps
Strontium	86-1	4294903	4405244	4373723	4357957	1.30	cps
Strontium	88-1	37473291	37187082	37906515	37522296	0.97	cps
Sulfur	34-1	3756322	3788053	3739516	3761297	0.66	cps
Terbium	159-1	22685166	23027345	22502954	22738488	1.17	cps
Terbium	159-2	6744413	6730709	6778045	6751056	0.36	cps
Thallium	203-1	493	543	543	527	5.48	cps
Thallium	205-1	1320	1297	1283	1300	1.43	cps
Tin	118-1	4417	4391	4331	4380	1.01	cps
Titanium	47-1	16676	16787	16603	16689	0.55	cps
Uranium	238-1	1053	983	1020	1019	3.44	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-18	Instrumnet Name :	P8
Client Sample ID :	ME29B4	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:45:16	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	57361	57501	56718	57194	0.73	cps
Ytterbium	172-1	220	270	313	268	17.44	cps
Ytterbium	172-2	133	113	97	114	16.04	cps
Ytterbium	176-1	2194	2174	2220	2196	1.07	cps
Ytterbium	176-2	313	303	377	331	12.01	cps
Yttrium	89-1	29197631	29560485	29492744	29416953	0.66	cps
Yttrium	89-2	1918396	1905864	1885792	1903351	0.86	cps
Zinc	66-2	34195	33530	34218	33981	1.15	cps
Zirconium	90-1	3571	3534	4168	3757	9.47	cps
Zirconium	91-1	763	930	957	883	11.86	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	25476	24441	25059	24992	2.08	cps
Antimony	121-1	48519	48395	48449	48454	0.13	cps
Arsenic	75-2	3874	3887	3901	3887	0.34	cps
Barium	135-1	60953	60809	59838	60533	1.00	cps
Barium	137-1	104674	105672	105235	105194	0.48	cps
Beryllium	9-1	575	501	576	551	7.80	cps
Bismuth	209-1	13392397	13108922	13295730	13265683	1.09	cps
Bismuth	209-2	4786635	5015129	4875533	4892432	2.35	cps
Bromine	81-1	491139	526999	543021	520386	5.10	cps
Cadmium	108-1	1007	883	993	961	7.04	cps
Cadmium	106-1	8022	8082	8319	8141	1.93	cps
Cadmium	111-1	6444	6499	6635	6526	1.50	cps
Calcium	43-1	393448	391556	391919	392308	0.26	cps
Calcium	44-1	6614732	6601812	6516455	6577666	0.81	cps
Carbon	12-1	28756844	30776612	31247476	30260311	4.37	cps
Carbon	12-2	202306	201970	203830	202702	0.49	cps
Chlorine	35-1	9711146	10652751	11016324	10460074	6.44	cps
Chlorine	35-2	44735	44973	45401	45036	0.75	cps
Chromium	52-2	8146	7882	8256	8095	2.37	cps
Cobalt	59-2	4174	4117	4127	4140	0.73	cps
Copper	63-2	33018	33750	33927	33565	1.44	cps
Dysprosium	156-1	1423	1577	1490	1497	5.14	cps
Dysprosium	156-2	420	477	473	457	6.96	cps
Erbium	164-1	1423	1557	1473	1485	4.54	cps
Erbium	164-2	507	510	430	482	9.38	cps
Gadolinium	160-1	1627	1410	1573	1537	7.35	cps
Gadolinium	160-2	560	467	493	507	9.49	cps
Holmium	165-1	22370406	21944422	21864456	22059761	1.23	cps
Holmium	165-2	6776199	7160852	6925376	6954142	2.79	cps
Indium	115-1	16422378	16210797	15859993	16164389	1.76	cps
Indium	115-2	1397015	1460125	1423471	1426871	2.22	cps
Iron	54-2	150706	149476	149596	149926	0.45	cps
Iron	56-2	2824976	3062095	2936502	2941191	4.03	cps
Iron	57-2	68698	68792	68209	68566	0.46	cps
Krypton	83-1	260	180	287	242	22.92	cps
Lead	206-1	295682	296009	296569	296087	0.15	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	237981	242078	242716	240925	1.07	cps
Lead	208-1	1129288	1127279	1131356	1129307	0.18	cps
Lithium	6-1	8333201	8308129	8231067	8290799	0.64	cps
Magnesium	24-2	1825664	1810218	1834917	1823600	0.68	cps
Manganese	55-2	98296	98564	98248	98369	0.17	cps
Molybdenum	94-1	1101139	1112770	1102132	1105347	0.58	cps
Molybdenum	95-1	2039996	2033753	2031999	2035249	0.21	cps
Molybdenum	96-1	2260534	2239038	2202553	2234042	1.31	cps
Molybdenum	97-1	1216300	1223923	1209699	1216641	0.59	cps
Molybdenum	98-1	3303370	3359483	3320211	3327688	0.87	cps
Neodymium	150-1	2067	2084	2010	2054	1.87	cps
Neodymium	150-2	497	420	533	483	11.97	cps
Nickel	60-2	113908	113811	113172	113630	0.35	cps
Phosphorus	31-2	1460	1450	1207	1372	10.46	cps
Potassium	39-2	25192135	25192845	24717035	25034005	1.10	cps
Rhodium	103-1	14763475	14727135	14408803	14633138	1.33	cps
Rhodium	103-2	5390444	5591411	5447451	5476435	1.89	cps
Scandium	45-1	11516673	11527438	11307514	11450542	1.08	cps
Scandium	45-2	201424	209835	203516	204925	2.14	cps
Selenium	82-1	440	493	383	439	12.53	cps
Selenium	77-2	3	7	10	7	50.03	cps
Selenium	78-2	33	30	13	26	41.94	cps
Silicon	28-1	152292068	154040741	152843584	153058798	0.58	cps
Silver	107-1	4431	4581	4271	4427	3.50	cps
Silver	109-1	4177	4094	3991	4087	2.29	cps
Sodium	23-2	91022162	90070529	90811715	90634802	0.55	cps
Strontium	86-1	691200	686947	679956	686034	0.83	cps
Strontium	88-1	6072331	6140183	6076352	6096289	0.62	cps
Sulfur	34-1	4375802	4407801	4363183	4382262	0.52	cps
Terbium	159-1	22146959	22210567	22214266	22190597	0.17	cps
Terbium	159-2	6567950	6755308	6672678	6665312	1.41	cps
Thallium	203-1	1583	1487	1533	1535	3.15	cps
Thallium	205-1	3651	3877	3877	3802	3.44	cps
Tin	118-1	5821	5905	5955	5894	1.14	cps
Titanium	47-1	25237	24763	24525	24841	1.46	cps
Uranium	238-1	101992	103225	102385	102534	0.61	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-19	Instrumnet Name :	P8
Client Sample ID :	ME29B5	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:48:30	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	64615	65084	64987	64895	0.38	cps
Ytterbium	172-1	603	597	620	607	1.98	cps
Ytterbium	172-2	200	240	203	214	10.35	cps
Ytterbium	176-1	2524	2447	2507	2492	1.62	cps
Ytterbium	176-2	447	440	507	464	7.91	cps
Yttrium	89-1	28828346	28642081	28324887	28598438	0.89	cps
Yttrium	89-2	1851499	1931688	1895089	1892759	2.12	cps
Zinc	66-2	13173	12759	13276	13069	2.09	cps
Zirconium	90-1	12309	11985	12573	12289	2.39	cps
Zirconium	91-1	2547	2597	2700	2615	2.99	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	813	723	600	712	15.04	cps
Antimony	121-1	413	430	397	413	4.03	cps
Arsenic	75-2	37	27	10	24	55.11	cps
Barium	135-1	38592	38321	38515	38476	0.36	cps
Barium	137-1	67769	67775	67816	67786	0.04	cps
Beryllium	9-1	449	417	431	432	3.62	cps
Bismuth	209-1	12490648	12417649	12547483	12485260	0.52	cps
Bismuth	209-2	4620211	4562812	4626046	4603023	0.76	cps
Bromine	81-1	168183	185931	193781	182632	7.18	cps
Cadmium	108-1	43	33	37	38	13.48	cps
Cadmium	106-1	8032	7969	8426	8142	3.04	cps
Cadmium	111-1	5636	5612	5939	5729	3.19	cps
Calcium	43-1	30179355	30457426	29666332	30101038	1.33	cps
Calcium	44-1	486207433	497675553	476814060	486899015	2.15	cps
Carbon	12-1	6577349	6880098	7156912	6871453	4.22	cps
Carbon	12-2	52627	52654	53821	53034	1.29	cps
Chlorine	35-1	56167983	61650797	63161347	60326709	6.10	cps
Chlorine	35-2	261044	261099	266473	262872	1.19	cps
Chromium	52-2	877	977	977	943	6.12	cps
Cobalt	59-2	217	270	273	253	12.55	cps
Copper	63-2	2807	2820	2970	2866	3.17	cps
Dysprosium	156-1	117	90	113	107	13.62	cps
Dysprosium	156-2	33	30	17	27	33.06	cps
Erbium	164-1	130	157	147	144	9.33	cps
Erbium	164-2	33	33	37	34	5.60	cps
Gadolinium	160-1	183	183	187	184	1.04	cps
Gadolinium	160-2	50	67	40	52	25.80	cps
Holmium	165-1	21168088	21043622	21024998	21078903	0.37	cps
Holmium	165-2	6764322	6793341	6821048	6792903	0.42	cps
Indium	115-1	15779965	15608468	15320092	15569508	1.49	cps
Indium	115-2	1383462	1382517	1385108	1383696	0.09	cps
Iron	54-2	428699	426810	428077	427862	0.23	cps
Iron	56-2	8044885	8113266	8218100	8125417	1.07	cps
Iron	57-2	198654	197698	199293	198548	0.40	cps
Krypton	83-1	357	307	433	366	17.45	cps
Lead	206-1	3260	3210	3164	3212	1.51	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2717	2760	2900	2793	3.43	cps
Lead	208-1	12546	12716	12926	12729	1.50	cps
Lithium	6-1	7773028	7761687	7842807	7792507	0.56	cps
Magnesium	24-2	42506631	42290458	41880974	42226021	0.75	cps
Manganese	55-2	109834	106701	107128	107888	1.57	cps
Molybdenum	94-1	2727	2847	2577	2717	4.98	cps
Molybdenum	95-1	3797	3871	3837	3835	0.96	cps
Molybdenum	96-1	3991	3967	3831	3929	2.20	cps
Molybdenum	97-1	2584	2180	2240	2335	9.32	cps
Molybdenum	98-1	5998	5678	5845	5840	2.74	cps
Neodymium	150-1	63	97	113	91	27.95	cps
Neodymium	150-2	20	10	17	16	32.73	cps
Nickel	60-2	813	903	857	858	5.25	cps
Phosphorus	31-2	117	143	113	124	13.21	cps
Potassium	39-2	675275	674220	677846	675780	0.28	cps
Rhodium	103-1	13912822	13824536	13910701	13882687	0.36	cps
Rhodium	103-2	5174477	5165445	5181075	5173666	0.15	cps
Scandium	45-1	11266477	11182044	11118929	11189150	0.66	cps
Scandium	45-2	203264	204668	202898	203610	0.46	cps
Selenium	82-1	90	120	30	80	57.28	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	10	7	23	13	66.12	cps
Silicon	28-1	120621878	121668552	121714482	121334970	0.51	cps
Silver	107-1	723	707	783	738	5.47	cps
Silver	109-1	470	497	477	481	2.88	cps
Sodium	23-2	149464981	146976574	149007934	148483163	0.89	cps
Strontium	86-1	84208107	84731099	84211740	84383649	0.36	cps
Strontium	88-1	738929402	738934016	730805562	736222993	0.64	cps
Sulfur	34-1	36921690	36915864	36399657	36745737	0.82	cps
Terbium	159-1	21531724	21635605	21433845	21533724	0.47	cps
Terbium	159-2	6483769	6536051	6463550	6494457	0.58	cps
Thallium	203-1	567	787	830	728	19.40	cps
Thallium	205-1	1310	1874	2174	1786	24.55	cps
Tin	118-1	3827	3721	3587	3712	3.24	cps
Titanium	47-1	3104	3004	3020	3043	1.76	cps
Uranium	238-1	8850	8540	8623	8671	1.85	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:51:41	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	160	93	97	117	32.20	cps
Ytterbium	172-1	157	110	163	143	20.28	cps
Ytterbium	172-2	47	30	53	43	27.73	cps
Ytterbium	176-1	2264	2114	2154	2177	3.57	cps
Ytterbium	176-2	313	300	267	293	8.20	cps
Yttrium	89-1	28068886	28417827	28001113	28162609	0.79	cps
Yttrium	89-2	1870021	1888928	1868766	1875905	0.60	cps
Zinc	66-2	463	507	487	486	4.47	cps
Zirconium	90-1	1980	2287	2220	2162	7.46	cps
Zirconium	91-1	430	427	310	389	17.57	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21703	22237	21823	21921	1.28	cps
Antimony	121-1	613	680	643	646	5.17	cps
Arsenic	75-2	387	363	313	354	10.57	cps
Barium	135-1	73273	73136	72372	72927	0.67	cps
Barium	137-1	126286	127823	126555	126888	0.65	cps
Beryllium	9-1	532	640	556	576	9.80	cps
Bismuth	209-1	13691488	13680192	13566969	13646216	0.50	cps
Bismuth	209-2	4945094	4991455	4968255	4968268	0.47	cps
Bromine	81-1	96103	99238	98647	97996	1.70	cps
Cadmium	108-1	83	47	57	62	30.46	cps
Cadmium	106-1	9090	8226	8436	8584	5.25	cps
Cadmium	111-1	6421	5835	5972	6076	5.04	cps
Calcium	43-1	12718399	12609697	12718260	12682119	0.49	cps
Calcium	44-1	200382004	200369850	203042217	201264690	0.76	cps
Carbon	12-1	6850950	7347094	7711557	7303200	5.91	cps
Carbon	12-2	53326	54420	54695	54147	1.34	cps
Chlorine	35-1	5619416	5308044	5058680	5328714	5.27	cps
Chlorine	35-2	17985	17237	16953	17392	3.06	cps
Chromium	52-2	3444	3761	3510	3572	4.68	cps
Cobalt	59-2	2174	2377	1990	2180	8.87	cps
Copper	63-2	8042	7726	7896	7888	2.01	cps
Dysprosium	156-1	2127	2104	1970	2067	4.09	cps
Dysprosium	156-2	643	603	607	618	3.59	cps
Erbium	164-1	1780	1900	1830	1837	3.28	cps
Erbium	164-2	560	580	540	560	3.57	cps
Gadolinium	160-1	2187	2144	2210	2180	1.55	cps
Gadolinium	160-2	730	743	783	752	3.69	cps
Holmium	165-1	22158866	21730568	21691357	21860264	1.19	cps
Holmium	165-2	6918559	6898943	6744354	6853952	1.39	cps
Indium	115-1	16815265	16466934	16805047	16695749	1.19	cps
Indium	115-2	1430529	1419952	1398926	1416469	1.14	cps
Iron	54-2	168697	167334	166208	167413	0.74	cps
Iron	56-2	3215825	3204068	3182129	3200674	0.53	cps
Iron	57-2	77975	76055	77207	77079	1.25	cps
Krypton	83-1	327	260	300	296	11.35	cps
Lead	206-1	10704	10491	9914	10370	3.94	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8683	8623	8503	8603	1.07	cps
Lead	208-1	40625	40301	39454	40127	1.51	cps
Lithium	6-1	8509661	8344552	8513804	8456006	1.14	cps
Magnesium	24-2	15966547	15832119	15727245	15841970	0.76	cps
Manganese	55-2	144668	144031	142937	143878	0.61	cps
Molybdenum	94-1	9016	9347	9685	9349	3.57	cps
Molybdenum	95-1	7932	7822	7836	7863	0.76	cps
Molybdenum	96-1	9050	8930	9100	9026	0.97	cps
Molybdenum	97-1	4718	4954	5014	4895	3.21	cps
Molybdenum	98-1	12496	12723	12406	12541	1.30	cps
Neodymium	150-1	2910	2784	2774	2823	2.70	cps
Neodymium	150-2	603	527	610	580	7.98	cps
Nickel	60-2	2354	2157	2384	2298	5.36	cps
Phosphorus	31-2	157	187	150	164	11.88	cps
Potassium	39-2	431604	428196	428399	429400	0.45	cps
Rhodium	103-1	15102836	14929445	15326974	15119751	1.32	cps
Rhodium	103-2	5623371	5506855	5414178	5514801	1.90	cps
Scandium	45-1	11849366	11632221	11874811	11785466	1.13	cps
Scandium	45-2	206367	206701	204072	205714	0.70	cps
Selenium	82-1	47	83	90	73	31.81	cps
Selenium	77-2	3	3	10	6	69.34	cps
Selenium	78-2	13	17	13	14	13.35	cps
Silicon	28-1	80330035	79969667	80498190	80265964	0.34	cps
Silver	107-1	453	487	510	483	5.89	cps
Silver	109-1	237	207	163	202	18.23	cps
Sodium	23-2	10693513	10640512	10761614	10698546	0.57	cps
Strontium	86-1	98786852	99958375	100870485	99871904	1.05	cps
Strontium	88-1	847554707	862030840	868744680	859443409	1.26	cps
Sulfur	34-1	15706307	15444784	15522819	15557970	0.86	cps
Terbium	159-1	22681413	22159361	22677351	22506042	1.33	cps
Terbium	159-2	6635214	6788356	6539573	6654381	1.89	cps
Thallium	203-1	1157	867	997	1007	14.43	cps
Thallium	205-1	2344	2337	2127	2269	5.43	cps
Tin	118-1	4561	4457	4567	4529	1.36	cps
Titanium	47-1	22281	22996	24327	23201	4.48	cps
Uranium	238-1	13574	13544	13781	13633	0.95	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-21	Instrumnet Name :	P8
Client Sample ID :	ME29B9	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:54:59	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2810	2877	3014	2900	3.57	cps
Ytterbium	172-1	573	673	650	632	8.28	cps
Ytterbium	172-2	240	207	217	221	7.74	cps
Ytterbium	176-1	2687	2580	2654	2640	2.07	cps
Ytterbium	176-2	413	440	440	431	3.57	cps
Yttrium	89-1	29443679	29068919	28629107	29047235	1.40	cps
Yttrium	89-2	1914525	1890446	1859166	1888046	1.47	cps
Zinc	66-2	2127	2040	2117	2095	2.26	cps
Zirconium	90-1	12533	12659	12846	12679	1.24	cps
Zirconium	91-1	2854	2847	2967	2889	2.33	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	673	730	707	703	4.05	cps
Antimony	121-1	14047	14501	14565	14371	1.96	cps
Arsenic	75-2	363	370	413	382	7.10	cps
Barium	135-1	316540	321452	321533	319841	0.89	cps
Barium	137-1	557387	560021	558787	558732	0.24	cps
Beryllium	9-1	367	345	381	365	5.02	cps
Bismuth	209-1	12853005	12459494	12434691	12582397	1.87	cps
Bismuth	209-2	4648004	4669017	4714432	4677151	0.73	cps
Bromine	81-1	158688	193448	209588	187242	13.89	cps
Cadmium	108-1	80	67	57	68	17.27	cps
Cadmium	106-1	8106	7922	8419	8149	3.08	cps
Cadmium	111-1	5708	5576	5924	5736	3.06	cps
Calcium	43-1	28387135	28675055	28809957	28624049	0.75	cps
Calcium	44-1	464458326	462847060	454675700	460660362	1.14	cps
Carbon	12-1	6965517	7376729	7592398	7311548	4.36	cps
Carbon	12-2	55002	55039	55253	55098	0.25	cps
Chlorine	35-1	49531171	54320408	56141154	53330911	6.40	cps
Chlorine	35-2	231489	233887	234533	233303	0.69	cps
Chromium	52-2	1087	1183	1110	1127	4.48	cps
Cobalt	59-2	970	1093	1177	1080	9.63	cps
Copper	63-2	4454	4634	4347	4479	3.24	cps
Dysprosium	156-1	80	53	30	54	45.95	cps
Dysprosium	156-2	0	23	3	9	142.00	cps
Erbium	164-1	120	130	90	113	18.37	cps
Erbium	164-2	23	30	33	29	17.63	cps
Gadolinium	160-1	93	180	123	132	33.29	cps
Gadolinium	160-2	47	37	20	34	39.11	cps
Holmium	165-1	21540222	21599619	21146490	21428777	1.15	cps
Holmium	165-2	6838744	6790551	6731036	6786777	0.79	cps
Indium	115-1	15977453	15778831	15802215	15852833	0.68	cps
Indium	115-2	1398011	1399260	1389781	1395684	0.37	cps
Iron	54-2	10684	10744	10928	10785	1.18	cps
Iron	56-2	202450	200580	198852	200627	0.90	cps
Iron	57-2	5638	5561	5928	5709	3.39	cps
Krypton	83-1	437	267	353	352	24.13	cps
Lead	206-1	2900	2890	2937	2909	0.84	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2524	2657	2330	2504	6.56	cps
Lead	208-1	11512	11919	11362	11598	2.48	cps
Lithium	6-1	8216909	8168008	8104082	8162999	0.69	cps
Magnesium	24-2	40296686	41379874	40133100	40603220	1.67	cps
Manganese	55-2	58911	60507	60296	59905	1.45	cps
Molybdenum	94-1	38787	38510	37540	38279	1.71	cps
Molybdenum	95-1	65748	66682	66347	66259	0.71	cps
Molybdenum	96-1	70213	70846	71027	70695	0.60	cps
Molybdenum	97-1	41248	42585	41676	41836	1.63	cps
Molybdenum	98-1	105548	106280	107526	106451	0.94	cps
Neodymium	150-1	57	50	103	70	41.52	cps
Neodymium	150-2	7	10	0	6	91.64	cps
Nickel	60-2	2810	2797	2767	2791	0.80	cps
Phosphorus	31-2	120	130	103	118	11.44	cps
Potassium	39-2	1017588	1013077	1021418	1017361	0.41	cps
Rhodium	103-1	14055000	13785364	14113637	13984667	1.25	cps
Rhodium	103-2	5267259	5267032	5257475	5263922	0.11	cps
Scandium	45-1	11351541	11505375	11438205	11431707	0.67	cps
Scandium	45-2	208615	206356	205359	206777	0.81	cps
Selenium	82-1	63	253	157	158	60.22	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	17	3	10	10	66.70	cps
Silicon	28-1	98104692	100662712	100260252	99675885	1.38	cps
Silver	107-1	487	577	550	538	8.60	cps
Silver	109-1	300	210	300	270	19.25	cps
Sodium	23-2	135514608	136119868	135709268	135781248	0.23	cps
Strontium	86-1	79277269	79367324	79435914	79360169	0.10	cps
Strontium	88-1	677917897	695169470	695922003	689669790	1.48	cps
Sulfur	34-1	35893658	36807054	36863849	36521521	1.49	cps
Terbium	159-1	21892342	21435368	21840230	21722647	1.15	cps
Terbium	159-2	6592713	6572895	6575979	6580529	0.16	cps
Thallium	203-1	1693	1593	1750	1679	4.73	cps
Thallium	205-1	3847	3861	3764	3824	1.37	cps
Tin	118-1	4247	3781	3961	3996	5.89	cps
Titanium	47-1	2737	2590	2460	2596	5.33	cps
Uranium	238-1	405221	410457	412008	409229	0.87	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-22	Instrumnet Name :	P8
Client Sample ID :	ME29C0	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 16:58:13	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1073	1080	1117	1090	2.14	cps
Ytterbium	172-1	137	140	93	123	21.11	cps
Ytterbium	172-2	23	47	43	38	33.41	cps
Ytterbium	176-1	2204	1994	2037	2078	5.34	cps
Ytterbium	176-2	273	223	327	274	18.83	cps
Yttrium	89-1	28287221	28305165	28290905	28294431	0.03	cps
Yttrium	89-2	1875870	1889913	1888705	1884829	0.41	cps
Zinc	66-2	380	467	447	431	10.53	cps
Zirconium	90-1	1850	1907	1963	1907	2.97	cps
Zirconium	91-1	367	390	407	388	5.18	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1314140	1287678	1313090	1304969	1.15	cps
Antimony	121-1	5811	5755	5898	5821	1.24	cps
Arsenic	75-2	4671	4307	4394	4457	4.26	cps
Barium	135-1	1444121	1454380	1463133	1453878	0.65	cps
Barium	137-1	2631343	2667845	2613403	2637530	1.05	cps
Beryllium	9-1	7282	7197	7381	7287	1.26	cps
Bismuth	209-1	13898622	13787335	13578462	13754806	1.18	cps
Bismuth	209-2	5061116	5116800	5057055	5078324	0.66	cps
Bromine	81-1	206835	220498	225250	217528	4.39	cps
Cadmium	108-1	620	590	553	588	5.68	cps
Cadmium	106-1	9917	9914	9683	9838	1.36	cps
Cadmium	111-1	10028	10034	9795	9952	1.37	cps
Calcium	43-1	8804959	9016691	8859924	8893858	1.24	cps
Calcium	44-1	143513295	144910835	144422468	144282199	0.49	cps
Carbon	12-1	14414276	15219444	15347045	14993588	3.37	cps
Carbon	12-2	101964	104840	103105	103303	1.40	cps
Chlorine	35-1	5756328	5729133	5551286	5678915	1.96	cps
Chlorine	35-2	20782	19954	19550	20095	3.12	cps
Chromium	52-2	166452	166513	164834	165933	0.57	cps
Cobalt	59-2	140603	141717	142026	141449	0.53	cps
Copper	63-2	512126	507904	509545	509858	0.42	cps
Dysprosium	156-1	111564	113060	111204	111943	0.88	cps
Dysprosium	156-2	33612	33910	33565	33696	0.55	cps
Erbium	164-1	96651	98787	98018	97818	1.11	cps
Erbium	164-2	29563	30041	29503	29702	0.99	cps
Gadolinium	160-1	106070	107092	106790	106651	0.49	cps
Gadolinium	160-2	40294	40963	40180	40479	1.04	cps
Holmium	165-1	22095613	22448406	21682724	22075581	1.74	cps
Holmium	165-2	7144227	7042042	7039733	7075334	0.84	cps
Indium	115-1	16366004	16545177	16319008	16410063	0.73	cps
Indium	115-2	1446931	1455298	1436051	1446093	0.67	cps
Iron	54-2	6350490	6214978	6241063	6268843	1.15	cps
Iron	56-2	115228582	115663938	115951488	115614669	0.31	cps
Iron	57-2	2922155	2961888	2966973	2950339	0.83	cps
Krypton	83-1	470	380	490	447	13.12	cps
Lead	206-1	827760	835115	829752	830876	0.46	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	670703	683691	686524	680306	1.24	cps
Lead	208-1	3289982	3283462	3313907	3295784	0.49	cps
Lithium	6-1	8405087	8466655	8431567	8434436	0.37	cps
Magnesium	24-2	14432691	14453886	14249809	14378795	0.78	cps
Manganese	55-2	2405029	2372263	2338516	2371936	1.40	cps
Molybdenum	94-1	114550	116327	117034	115970	1.10	cps
Molybdenum	95-1	72457	72508	72086	72350	0.32	cps
Molybdenum	96-1	90670	91307	91012	90996	0.35	cps
Molybdenum	97-1	46106	46013	45979	46033	0.14	cps
Molybdenum	98-1	118161	119987	118574	118907	0.80	cps
Neodymium	150-1	154656	155819	154133	154870	0.56	cps
Neodymium	150-2	34123	34006	33933	34021	0.28	cps
Nickel	60-2	104158	103704	102654	103505	0.75	cps
Phosphorus	31-2	3677	3604	3427	3569	3.60	cps
Potassium	39-2	553372	555008	550316	552898	0.43	cps
Rhodium	103-1	15264200	14810572	15006486	15027086	1.51	cps
Rhodium	103-2	5608564	5560519	5622741	5597275	0.58	cps
Scandium	45-1	11946599	11972745	11632656	11850667	1.60	cps
Scandium	45-2	213885	214956	212629	213823	0.54	cps
Selenium	82-1	313	247	380	313	21.28	cps
Selenium	77-2	170	170	173	171	1.13	cps
Selenium	78-2	97	93	103	98	5.21	cps
Silicon	28-1	179880151	182325384	179863971	180689835	0.78	cps
Silver	107-1	3370	3450	3454	3425	1.38	cps
Silver	109-1	3057	3220	3144	3140	2.60	cps
Sodium	23-2	7403881	7394418	7399403	7399234	0.06	cps
Strontium	86-1	6397538	6331656	6334595	6354596	0.59	cps
Strontium	88-1	54934634	55388853	54700419	55007969	0.64	cps
Sulfur	34-1	2475766	2504642	2470843	2483750	0.74	cps
Terbium	159-1	22612491	22464911	22699111	22592171	0.52	cps
Terbium	159-2	6754158	6871697	6707588	6777814	1.25	cps
Thallium	203-1	8216	8870	8746	8611	4.03	cps
Thallium	205-1	20229	21087	20596	20638	2.09	cps
Tin	118-1	54756	54863	54197	54605	0.66	cps
Titanium	47-1	523315	521833	528300	524483	0.65	cps
Uranium	238-1	299008	303548	301898	301484	0.76	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DL2X5	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:01:33	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	124398	124293	122888	123860	0.68	cps
Ytterbium	172-1	29232	29199	29379	29270	0.33	cps
Ytterbium	172-2	11065	10684	11292	11014	2.79	cps
Ytterbium	176-1	20616	21177	21170	20988	1.53	cps
Ytterbium	176-2	7726	7616	7309	7550	2.86	cps
Yttrium	89-1	30910193	30700017	30279040	30629750	1.05	cps
Yttrium	89-2	1983431	1994647	2021668	1999915	0.98	cps
Zinc	66-2	138195	137102	137254	137517	0.43	cps
Zirconium	90-1	202161	205127	205271	204187	0.86	cps
Zirconium	91-1	45079	44628	44922	44876	0.51	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	463	550	507	507	8.55	cps
Antimony	121-1	167	137	110	138	20.58	cps
Arsenic	75-2	17	17	23	19	20.36	cps
Barium	135-1	22485	23404	22923	22937	2.00	cps
Barium	137-1	38899	40404	39905	39736	1.93	cps
Beryllium	9-1	469	446	411	442	6.55	cps
Bismuth	209-1	13371191	13274934	13278550	13308225	0.41	cps
Bismuth	209-2	4865165	5583881	5030642	5159896	7.29	cps
Bromine	81-1	85191	97234	104402	95609	10.15	cps
Cadmium	108-1	33	33	33	33	0.00	cps
Cadmium	106-1	8379	8423	8303	8368	0.73	cps
Cadmium	111-1	5879	5896	5828	5868	0.60	cps
Calcium	43-1	16236033	16533182	16910550	16559922	2.04	cps
Calcium	44-1	264736116	265989589	271172369	267299358	1.28	cps
Carbon	12-1	5075935	5299410	5486147	5287164	3.88	cps
Carbon	12-2	38611	38163	37651	38142	1.26	cps
Chlorine	35-1	32891445	35482320	37294172	35222646	6.28	cps
Chlorine	35-2	148254	147677	148957	148296	0.43	cps
Chromium	52-2	807	910	903	873	6.62	cps
Cobalt	59-2	203	190	177	190	7.02	cps
Copper	63-2	2997	3110	3090	3066	1.97	cps
Dysprosium	156-1	107	83	77	89	17.72	cps
Dysprosium	156-2	20	0	20	13	86.60	cps
Erbium	164-1	167	123	143	144	15.01	cps
Erbium	164-2	33	30	47	37	24.06	cps
Gadolinium	160-1	173	183	180	179	2.85	cps
Gadolinium	160-2	40	50	50	47	12.37	cps
Holmium	165-1	21695985	21943743	21651282	21763670	0.72	cps
Holmium	165-2	7139720	7964163	7305909	7469931	5.84	cps
Indium	115-1	16543824	16577485	16680923	16600744	0.43	cps
Indium	115-2	1449695	1688396	1510757	1549616	8.00	cps
Iron	54-2	236653	234423	235740	235605	0.48	cps
Iron	56-2	4525981	4460691	4484668	4490447	0.74	cps
Iron	57-2	110961	108220	107834	109005	1.56	cps
Krypton	83-1	313	400	370	361	12.19	cps
Lead	206-1	2760	2797	2460	2673	6.91	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2390	2280	2274	2315	2.83	cps
Lead	208-1	11119	10578	10265	10654	4.05	cps
Lithium	6-1	8222793	8447373	8567859	8412675	2.08	cps
Magnesium	24-2	23456995	23278752	23289429	23341725	0.43	cps
Manganese	55-2	58800	58924	59506	59077	0.64	cps
Molybdenum	94-1	1813	1663	1643	1707	5.44	cps
Molybdenum	95-1	2104	2124	2087	2105	0.87	cps
Molybdenum	96-1	2177	2230	2260	2222	1.90	cps
Molybdenum	97-1	1283	1213	1243	1247	2.82	cps
Molybdenum	98-1	3070	3154	3164	3129	1.64	cps
Neodymium	150-1	40	63	83	62	34.85	cps
Neodymium	150-2	3	10	17	10	66.70	cps
Nickel	60-2	927	933	1047	969	6.96	cps
Phosphorus	31-2	73	107	83	88	19.49	cps
Potassium	39-2	380947	372415	379885	377749	1.23	cps
Rhodium	103-1	14988099	14920599	14906087	14938262	0.29	cps
Rhodium	103-2	5523763	6218292	5719794	5820616	6.15	cps
Scandium	45-1	11654592	12056084	11809535	11840070	1.71	cps
Scandium	45-2	213094	242487	220235	225272	6.81	cps
Selenium	82-1	73	-20	3	19	257.15	cps
Selenium	77-2	0	3	7	3	100.05	cps
Selenium	78-2	7	17	17	13	43.29	cps
Silicon	28-1	64314571	64782427	66202122	65099707	1.51	cps
Silver	107-1	347	420	407	391	9.99	cps
Silver	109-1	183	163	200	182	10.07	cps
Sodium	23-2	81801307	80984842	81758864	81515004	0.56	cps
Strontium	86-1	44922604	45619246	46173796	45571882	1.38	cps
Strontium	88-1	390265288	398557127	403871647	397564687	1.72	cps
Sulfur	34-1	20157123	20203084	20624236	20328148	1.27	cps
Terbium	159-1	22548031	22458456	22690678	22565722	0.52	cps
Terbium	159-2	6786513	7514941	6840711	7047388	5.76	cps
Thallium	203-1	480	390	423	431	10.55	cps
Thallium	205-1	1087	1010	1093	1063	4.36	cps
Tin	118-1	4567	4054	3500	4041	13.21	cps
Titanium	47-1	1600	1647	1673	1640	2.26	cps
Uranium	238-1	4698	4501	4718	4639	2.58	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-20DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29B8	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:04:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63	93	107	88	25.29	cps
Ytterbium	172-1	133	83	170	129	33.75	cps
Ytterbium	172-2	47	47	67	53	21.65	cps
Ytterbium	176-1	1954	2154	2194	2100	6.12	cps
Ytterbium	176-2	240	337	330	302	17.86	cps
Yttrium	89-1	29144063	28987766	29574975	29235602	1.04	cps
Yttrium	89-2	2003453	2206733	2006665	2072284	5.62	cps
Zinc	66-2	317	477	367	387	21.17	cps
Zirconium	90-1	1723	1637	1813	1725	5.12	cps
Zirconium	91-1	320	303	283	302	6.07	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	460	417	470	449	6.31	cps
Antimony	121-1	7739	7716	7972	7809	1.82	cps
Arsenic	75-2	157	193	247	199	22.75	cps
Barium	135-1	172557	171929	172314	172267	0.18	cps
Barium	137-1	292368	295405	298362	295378	1.01	cps
Beryllium	9-1	381	386	396	388	1.97	cps
Bismuth	209-1	13359250	13477260	13513828	13450113	0.60	cps
Bismuth	209-2	5072923	5035412	4913556	5007297	1.66	cps
Bromine	81-1	94077	111805	119322	108401	11.96	cps
Cadmium	108-1	60	63	100	74	29.81	cps
Cadmium	106-1	8566	8396	8543	8502	1.08	cps
Cadmium	111-1	6011	5883	5993	5962	1.16	cps
Calcium	43-1	15162175	15121779	15430744	15238232	1.10	cps
Calcium	44-1	244854643	247871590	249522223	247416152	0.96	cps
Carbon	12-1	5211554	5437598	5530847	5393333	3.04	cps
Carbon	12-2	39062	38340	39135	38846	1.13	cps
Chlorine	35-1	27996844	30251587	31254484	29834305	5.59	cps
Chlorine	35-2	123508	123444	124695	123882	0.57	cps
Chromium	52-2	1190	1320	1203	1238	5.78	cps
Cobalt	59-2	613	653	657	641	3.76	cps
Copper	63-2	3824	3734	3801	3786	1.23	cps
Dysprosium	156-1	43	47	57	49	14.20	cps
Dysprosium	156-2	10	7	13	10	33.30	cps
Erbium	164-1	130	130	93	118	17.98	cps
Erbium	164-2	17	37	50	34	48.70	cps
Gadolinium	160-1	143	173	117	144	19.63	cps
Gadolinium	160-2	23	33	30	29	17.63	cps
Holmium	165-1	22115081	21984811	22076071	22058654	0.30	cps
Holmium	165-2	7166504	7221494	6915290	7101096	2.30	cps
Indium	115-1	16687923	16556992	17025592	16756836	1.44	cps
Indium	115-2	1498126	1494333	1443797	1478752	2.05	cps
Iron	54-2	5718	6288	6281	6096	5.37	cps
Iron	56-2	110097	111804	112966	111622	1.29	cps
Iron	57-2	3090	3290	3367	3249	4.40	cps
Krypton	83-1	300	337	237	291	17.38	cps
Lead	206-1	2500	2267	2397	2388	4.90	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2187	1873	2040	2034	7.71	cps
Lead	208-1	9908	9005	9408	9440	4.79	cps
Lithium	6-1	8587516	8607830	8678276	8624541	0.55	cps
Magnesium	24-2	21381437	20937076	21319281	21212598	1.13	cps
Manganese	55-2	31608	32363	32216	32063	1.25	cps
Molybdenum	94-1	19781	21256	21006	20681	3.82	cps
Molybdenum	95-1	35064	34817	35452	35111	0.91	cps
Molybdenum	96-1	37280	37026	38102	37469	1.50	cps
Molybdenum	97-1	22181	22358	22689	22409	1.15	cps
Molybdenum	98-1	57696	56996	57830	57507	0.78	cps
Neodymium	150-1	37	23	57	39	43.15	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	2254	2190	2314	2252	2.74	cps
Phosphorus	31-2	120	100	100	107	10.83	cps
Potassium	39-2	542517	547809	546233	545520	0.50	cps
Rhodium	103-1	15129026	14973500	15303685	15135404	1.09	cps
Rhodium	103-2	5742198	5634520	5533617	5636778	1.85	cps
Scandium	45-1	12175575	11987636	12318308	12160506	1.36	cps
Scandium	45-2	220566	219253	212544	217455	1.98	cps
Selenium	82-1	103	93	170	122	34.10	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	13	13	17	14	13.35	cps
Silicon	28-1	53290446	53088136	53168373	53182318	0.19	cps
Silver	107-1	400	407	473	427	9.50	cps
Silver	109-1	107	177	150	144	24.46	cps
Sodium	23-2	71407407	71614499	72512479	71844795	0.82	cps
Strontium	86-1	41795155	41458022	42377104	41876760	1.11	cps
Strontium	88-1	367684861	364751088	363244048	365226666	0.62	cps
Sulfur	34-1	19716798	19772895	19824257	19771317	0.27	cps
Terbium	159-1	22502536	22366724	22462228	22443829	0.31	cps
Terbium	159-2	6922848	6983688	6616619	6841052	2.88	cps
Thallium	203-1	930	997	940	956	3.76	cps
Thallium	205-1	2470	2307	2477	2418	3.98	cps
Tin	118-1	3804	3641	3691	3712	2.26	cps
Titanium	47-1	1417	1487	1430	1445	2.57	cps
Uranium	238-1	211422	215109	210685	212405	1.12	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1204-08DLX2	Instrumnet Name :	P8
Client Sample ID :	ME2996	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 17:07:58	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	520	527	497	514	3.06	cps
Ytterbium	172-1	147	130	127	134	7.97	cps
Ytterbium	172-2	57	60	50	56	9.17	cps
Ytterbium	176-1	2224	2287	2287	2266	1.61	cps
Ytterbium	176-2	277	300	323	300	7.78	cps
Yttrium	89-1	29713542	29207467	29756008	29559006	1.03	cps
Yttrium	89-2	2025380	1990345	1939136	1984953	2.19	cps
Zinc	66-2	347	360	353	353	1.89	cps
Zirconium	90-1	1423	1530	1480	1478	3.61	cps
Zirconium	91-1	300	253	290	281	8.74	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3557315	3596443	3603572	3585776	0.69	cps
Antimony	121-1	8587809	8658908	8644549	8630422	0.44	cps
Arsenic	75-2	158447	159828	160492	159589	0.65	cps
Barium	135-1	10491369	10685929	10499292	10558864	1.04	cps
Barium	137-1	18337302	18109656	18113723	18186894	0.72	cps
Beryllium	9-1	2848651	2889889	2810928	2849823	1.39	cps
Bismuth	209-1	12371035	12640222	12581863	12531040	1.13	cps
Bismuth	209-2	4686106	4667420	4652893	4668806	0.36	cps
Bromine	81-1	31225	29912	27811	29649	5.81	cps
Cadmium	108-1	168350	167109	166843	167434	0.48	cps
Cadmium	106-1	242027	241161	240117	241102	0.40	cps
Cadmium	111-1	2048353	2159485	2097993	2101944	2.65	cps
Calcium	43-1	14079614	14120444	14053089	14084382	0.24	cps
Calcium	44-1	230473223	230721563	229814417	230336401	0.20	cps
Carbon	12-1	4943247	5102918	5235631	5093932	2.87	cps
Carbon	12-2	40586	40706	40629	40640	0.15	cps
Chlorine	35-1	2968396	2786824	2645367	2800196	5.78	cps
Chlorine	35-2	9153	8446	8322	8640	5.19	cps
Chromium	52-2	1858530	1813096	1855422	1842349	1.38	cps
Cobalt	59-2	3394557	3434118	3385505	3404727	0.76	cps
Copper	63-2	25483118	25205195	25386874	25358396	0.56	cps
Dysprosium	156-1	443	563	513	507	11.90	cps
Dysprosium	156-2	97	120	140	119	18.24	cps
Erbium	164-1	467	517	483	489	5.21	cps
Erbium	164-2	157	170	173	167	5.29	cps
Gadolinium	160-1	420	360	447	409	10.86	cps
Gadolinium	160-2	180	143	137	153	15.22	cps
Holmium	165-1	21054421	21229506	21305357	21196428	0.61	cps
Holmium	165-2	6922974	6911485	6827735	6887398	0.75	cps
Indium	115-1	15326364	15362655	15378001	15355674	0.17	cps
Indium	115-2	1367655	1369154	1366985	1367931	0.08	cps
Iron	54-2	18395984	18254085	18465475	18371848	0.59	cps
Iron	56-2	339765128	336906488	335281535	337317717	0.67	cps
Iron	57-2	8417226	8477251	8457715	8450731	0.36	cps
Krypton	83-1	337	390	327	351	9.70	cps
Lead	206-1	34773472	35292991	35358282	35141582	0.91	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30107792	30048521	30252025	30136113	0.35	cps
Lead	208-1	138761335	139435378	140174404	139457039	0.51	cps
Lithium	6-1	7731816	7896404	7846740	7824987	1.08	cps
Magnesium	24-2	64074134	64618554	63403356	64032015	0.95	cps
Manganese	55-2	7402098	7366993	7393029	7387373	0.25	cps
Molybdenum	94-1	30042047	30338613	30395611	30258757	0.63	cps
Molybdenum	95-1	43003280	43575958	43275700	43284979	0.66	cps
Molybdenum	96-1	47989948	47639331	48120216	47916498	0.52	cps
Molybdenum	97-1	27274511	26828260	27456013	27186262	1.19	cps
Molybdenum	98-1	71537232	70510084	71810769	71286028	0.96	cps
Neodymium	150-1	817	773	790	793	2.76	cps
Neodymium	150-2	63	47	53	54	15.40	cps
Nickel	60-2	874415	883619	878565	878867	0.52	cps
Phosphorus	31-2	32306	32750	32817	32624	0.85	cps
Potassium	39-2	17167525	17293530	17403974	17288343	0.68	cps
Rhodium	103-1	14070050	13850136	14187585	14035924	1.22	cps
Rhodium	103-2	5276238	5364242	5233619	5291366	1.26	cps
Scandium	45-1	11136389	11144824	11112446	11131219	0.15	cps
Scandium	45-2	208504	207946	207391	207947	0.27	cps
Selenium	82-1	123979	123488	124049	123838	0.25	cps
Selenium	77-2	1953	1977	1963	1965	0.60	cps
Selenium	78-2	6718	6615	6658	6664	0.78	cps
Silicon	28-1	7550075	7671984	7720178	7647413	1.15	cps
Silver	107-1	10254612	10501675	10261156	10339148	1.36	cps
Silver	109-1	9645640	9955336	9846575	9815850	1.60	cps
Sodium	23-2	128624038	129350891	125988618	127987849	1.38	cps
Strontium	86-1	2840832	2789746	2859200	2829926	1.27	cps
Strontium	88-1	24462708	24512788	24256683	24410726	0.56	cps
Sulfur	34-1	1554035	1535408	1526751	1538731	0.91	cps
Terbium	159-1	21430327	22151981	21717146	21766485	1.67	cps
Terbium	159-2	6593425	6589282	6622239	6601649	0.27	cps
Thallium	203-1	8652592	8814667	8654762	8707340	1.07	cps
Thallium	205-1	20351853	20770831	20777874	20633519	1.18	cps
Tin	118-1	6874649	6834931	6949648	6886409	0.85	cps
Titanium	47-1	13291334	13149444	13351878	13264219	0.78	cps
Uranium	238-1	29261483	28985337	29192476	29146432	0.49	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV002	Instrumnet Name :	P8
Client Sample ID :	CCV002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:11:13	DataFile Name :	047CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1476119	1452106	1482568	1470264	1.09	cps
Ytterbium	172-1	560	573	530	554	4.00	cps
Ytterbium	172-2	220	203	207	210	4.20	cps
Ytterbium	176-1	43645	42759	44140	43515	1.61	cps
Ytterbium	176-2	13647	13794	13704	13715	0.54	cps
Yttrium	89-1	28393025	27881443	28006142	28093537	0.95	cps
Yttrium	89-2	1873972	1873315	1887413	1878233	0.42	cps
Zinc	66-2	2747691	2749778	2791382	2762950	0.89	cps
Zirconium	90-1	15258063	15350481	15432141	15346895	0.57	cps
Zirconium	91-1	3379962	3411146	3404667	3398592	0.48	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	167	183	163	171	6.26	cps
Antimony	121-1	1887	1737	1633	1752	7.27	cps
Arsenic	75-2	20	7	3	10	88.20	cps
Barium	135-1	447	417	380	414	8.06	cps
Barium	137-1	743	693	657	698	6.23	cps
Beryllium	9-1	1051	1056	1075	1061	1.18	cps
Bismuth	209-1	14484374	14564116	14350630	14466373	0.75	cps
Bismuth	209-2	5421006	5339283	5298776	5353021	1.16	cps
Bromine	81-1	16300	16233	15939	16157	1.19	cps
Cadmium	108-1	43	50	57	50	13.34	cps
Cadmium	106-1	8516	8399	8649	8522	1.47	cps
Cadmium	111-1	6058	5995	6125	6059	1.08	cps
Calcium	43-1	963	1107	810	960	15.45	cps
Calcium	44-1	37632	36423	36797	36951	1.68	cps
Carbon	12-1	4033687	3999600	3998543	4010610	0.50	cps
Carbon	12-2	25853	26267	25405	25842	1.67	cps
Chlorine	35-1	1476595	1415191	1357421	1416402	4.21	cps
Chlorine	35-2	4884	4434	4601	4640	4.90	cps
Chromium	52-2	980	983	1043	1002	3.56	cps
Cobalt	59-2	190	200	177	189	6.20	cps
Copper	63-2	3601	3514	3540	3552	1.25	cps
Dysprosium	156-1	20	40	30	30	33.33	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	60	123	97	93	34.07	cps
Erbium	164-2	30	20	40	30	33.33	cps
Gadolinium	160-1	130	113	153	132	15.20	cps
Gadolinium	160-2	30	20	17	22	31.22	cps
Holmium	165-1	22321406	21951659	22276684	22183249	0.91	cps
Holmium	165-2	7302566	7134936	7101909	7179804	1.50	cps
Indium	115-1	17005373	17513066	17328852	17282430	1.49	cps
Indium	115-2	1609952	1512206	1562580	1561579	3.13	cps
Iron	54-2	920	977	1083	993	8.35	cps
Iron	56-2	16223	16757	16820	16600	1.98	cps
Iron	57-2	423	430	400	418	3.77	cps
Krypton	83-1	340	343	367	350	4.15	cps
Lead	206-1	4487	4297	4017	4267	5.54	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3641	3831	3577	3683	3.58	cps
Lead	208-1	17555	17195	16298	17016	3.81	cps
Lithium	6-1	8730851	8616270	8674948	8674023	0.66	cps
Magnesium	24-2	3774	4037	4021	3944	3.74	cps
Manganese	55-2	410	433	390	411	5.27	cps
Molybdenum	94-1	1483	1463	1377	1441	3.93	cps
Molybdenum	95-1	1543	1453	1433	1477	3.97	cps
Molybdenum	96-1	1817	1670	1733	1740	4.23	cps
Molybdenum	97-1	1070	907	923	967	9.30	cps
Molybdenum	98-1	2430	2420	2367	2406	1.42	cps
Neodymium	150-1	13	17	17	16	12.40	cps
Neodymium	150-2	3	3	10	6	69.34	cps
Nickel	60-2	1037	1000	1070	1036	3.38	cps
Phosphorus	31-2	73	100	153	109	37.41	cps
Potassium	39-2	16006	16349	16196	16184	1.06	cps
Rhodium	103-1	16175384	16165947	16360471	16233934	0.68	cps
Rhodium	103-2	6143887	6013369	6082505	6079920	1.07	cps
Scandium	45-1	12031354	12115324	11905996	12017558	0.88	cps
Scandium	45-2	217305	216231	217355	216964	0.29	cps
Selenium	82-1	-30	-23	-30	-28	-13.86	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	7	7	8	24.71	cps
Silicon	28-1	803595	780281	765284	783053	2.47	cps
Silver	107-1	1007	1113	887	1002	11.32	cps
Silver	109-1	887	880	690	819	13.64	cps
Sodium	23-2	108905	108482	106575	107988	1.15	cps
Strontium	86-1	1083	863	933	960	11.71	cps
Strontium	88-1	5031	5001	4524	4852	5.86	cps
Sulfur	34-1	778468	779965	784151	780861	0.38	cps
Terbium	159-1	22819945	23002829	22851622	22891465	0.43	cps
Terbium	159-2	7037029	6896898	6907300	6947076	1.12	cps
Thallium	203-1	1260	1280	1237	1259	1.72	cps
Thallium	205-1	3044	2614	2907	2855	7.70	cps
Tin	118-1	3724	3587	3871	3727	3.80	cps
Titanium	47-1	657	507	550	571	13.52	cps
Uranium	238-1	740	677	617	678	9.10	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB002	Instrumnet Name :	P8
Client Sample ID :	CCB002	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:14:38	DataFile Name :	048CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	30	47	34	31.11	cps
Ytterbium	172-1	140	123	103	122	15.02	cps
Ytterbium	172-2	47	47	37	43	13.32	cps
Ytterbium	176-1	2267	1994	2174	2145	6.48	cps
Ytterbium	176-2	303	287	323	304	6.03	cps
Yttrium	89-1	30177280	30366731	30191475	30245162	0.35	cps
Yttrium	89-2	2010049	1937266	1943660	1963658	2.05	cps
Zinc	66-2	363	420	287	357	18.76	cps
Zirconium	90-1	1473	1547	1463	1495	3.04	cps
Zirconium	91-1	307	393	287	329	17.24	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	110	137	103	117	15.12	cps
Antimony	121-1	523	483	543	517	5.91	cps
Arsenic	75-2	7	13	7	9	43.25	cps
Barium	135-1	247	210	260	239	10.84	cps
Barium	137-1	290	323	300	304	5.62	cps
Beryllium	9-1	734	760	712	735	3.24	cps
Bismuth	209-1	14334506	14437271	14376331	14382703	0.36	cps
Bismuth	209-2	5206527	5409396	5275319	5297081	1.95	cps
Bromine	81-1	12612	12062	12055	12243	2.61	cps
Cadmium	108-1	27	37	40	34	20.14	cps
Cadmium	106-1	8069	8760	8613	8480	4.29	cps
Cadmium	111-1	5650	6166	6031	5949	4.50	cps
Calcium	43-1	600	620	633	618	2.72	cps
Calcium	44-1	30295	29424	29280	29666	1.85	cps
Carbon	12-1	3617750	3513574	3546678	3559334	1.50	cps
Carbon	12-2	22504	22971	22878	22784	1.09	cps
Chlorine	35-1	895129	867117	831840	864695	3.67	cps
Chlorine	35-2	3104	2997	2877	2993	3.79	cps
Chromium	52-2	733	750	750	744	1.29	cps
Cobalt	59-2	137	140	167	148	11.13	cps
Copper	63-2	3024	3040	3050	3038	0.44	cps
Dysprosium	156-1	20	20	63	34	72.63	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	97	133	143	124	19.74	cps
Erbium	164-2	33	37	37	36	5.42	cps
Gadolinium	160-1	107	133	110	117	12.46	cps
Gadolinium	160-2	27	23	33	28	18.33	cps
Holmium	165-1	22405724	21998786	22126119	22176876	0.94	cps
Holmium	165-2	7038089	7319818	7054640	7137516	2.21	cps
Indium	115-1	17172408	17183661	16967685	17107918	0.71	cps
Indium	115-2	1482007	1611476	1509545	1534343	4.45	cps
Iron	54-2	580	603	637	607	4.69	cps
Iron	56-2	8336	8256	8836	8476	3.71	cps
Iron	57-2	200	207	173	193	9.12	cps
Krypton	83-1	290	320	260	290	10.34	cps
Lead	206-1	2960	2814	2877	2884	2.55	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2750	2507	2490	2583	5.64	cps
Lead	208-1	12119	11572	11599	11763	2.62	cps
Lithium	6-1	8701073	8585200	8448855	8578376	1.47	cps
Magnesium	24-2	2740	2610	2577	2642	3.27	cps
Manganese	55-2	227	297	210	244	18.81	cps
Molybdenum	94-1	620	653	597	623	4.57	cps
Molybdenum	95-1	393	413	393	400	2.89	cps
Molybdenum	96-1	477	570	563	537	9.70	cps
Molybdenum	97-1	307	267	233	269	13.65	cps
Molybdenum	98-1	573	683	653	637	8.93	cps
Neodymium	150-1	13	27	13	18	43.33	cps
Neodymium	150-2	7	7	3	6	34.70	cps
Nickel	60-2	1020	1000	1223	1081	11.43	cps
Phosphorus	31-2	87	90	87	88	2.19	cps
Potassium	39-2	14838	14924	14594	14785	1.16	cps
Rhodium	103-1	16147282	16070953	16273628	16163954	0.63	cps
Rhodium	103-2	5956799	6221162	6037593	6071851	2.23	cps
Scandium	45-1	12114874	11979412	12039270	12044519	0.56	cps
Scandium	45-2	211247	222046	212555	215283	2.74	cps
Selenium	82-1	47	-10	83	40	117.55	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	7	13	8	65.47	cps
Silicon	28-1	686523	673987	674765	678425	1.04	cps
Silver	107-1	490	387	437	438	11.80	cps
Silver	109-1	247	300	277	274	9.74	cps
Sodium	23-2	99815	99093	99076	99328	0.42	cps
Strontium	86-1	733	793	800	776	4.73	cps
Strontium	88-1	3094	2714	2747	2851	7.38	cps
Sulfur	34-1	779873	786011	778615	781500	0.51	cps
Terbium	159-1	22483497	22790190	22185291	22486326	1.35	cps
Terbium	159-2	6763702	6933085	6847335	6848041	1.24	cps
Thallium	203-1	877	887	873	879	0.79	cps
Thallium	205-1	1954	1907	1957	1939	1.44	cps
Tin	118-1	3591	3344	3400	3445	3.75	cps
Titanium	47-1	987	957	950	964	2.03	cps
Uranium	238-1	183	140	110	144	25.53	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BL	Instrumnet Name :	P8
Client Sample ID :	PBW535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:18:01	DataFile Name :	049CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	13	13	17	34.65	cps
Ytterbium	172-1	133	130	133	132	1.46	cps
Ytterbium	172-2	33	60	50	48	28.20	cps
Ytterbium	176-1	2090	2117	2070	2092	1.12	cps
Ytterbium	176-2	337	277	297	303	10.07	cps
Yttrium	89-1	30414710	29353058	29655765	29807844	1.83	cps
Yttrium	89-2	1905017	2004139	1968715	1959291	2.56	cps
Zinc	66-2	267	237	220	241	9.81	cps
Zirconium	90-1	1120	1050	1153	1108	4.76	cps
Zirconium	91-1	223	230	267	240	9.72	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3017	3080	3060	3053	1.06	cps
Antimony	121-1	76030	77153	76683	76622	0.74	cps
Arsenic	75-2	743	740	757	747	1.18	cps
Barium	135-1	91262	89849	90892	90667	0.81	cps
Barium	137-1	159599	158361	155900	157953	1.19	cps
Beryllium	9-1	13598	13566	13423	13529	0.69	cps
Bismuth	209-1	14300948	14202795	14429571	14311105	0.79	cps
Bismuth	209-2	5380992	5311391	5337331	5343238	0.66	cps
Bromine	81-1	9994	9710	9870	9858	1.44	cps
Cadmium	108-1	780	793	830	801	3.23	cps
Cadmium	106-1	9727	9593	9467	9596	1.36	cps
Cadmium	111-1	16283	15660	15249	15731	3.31	cps
Calcium	43-1	63124	61444	63556	62708	1.78	cps
Calcium	44-1	1033659	1043113	1033130	1036634	0.54	cps
Carbon	12-1	3604362	3531150	3555326	3563613	1.05	cps
Carbon	12-2	23432	23275	22734	23147	1.58	cps
Chlorine	35-1	2362766	2562077	2649014	2524619	5.81	cps
Chlorine	35-2	10671	10577	10817	10688	1.13	cps
Chromium	52-2	16346	15512	16286	16048	2.90	cps
Cobalt	59-2	16303	15692	15609	15868	2.39	cps
Copper	63-2	28859	29083	29180	29041	0.57	cps
Dysprosium	156-1	60	63	33	52	31.49	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	100	87	120	102	16.41	cps
Erbium	164-2	30	27	27	28	6.92	cps
Gadolinium	160-1	113	123	133	123	8.11	cps
Gadolinium	160-2	17	23	20	20	16.65	cps
Holmium	165-1	21963909	22131022	22440821	22178584	1.09	cps
Holmium	165-2	7144855	7031421	7177088	7117788	1.07	cps
Indium	115-1	16985021	17315722	17167751	17156165	0.97	cps
Indium	115-2	1500642	1499904	1538790	1513112	1.47	cps
Iron	54-2	66648	66628	66531	66602	0.09	cps
Iron	56-2	1198722	1210349	1202160	1203744	0.50	cps
Iron	57-2	30496	29654	30032	30061	1.40	cps
Krypton	83-1	243	293	317	284	13.17	cps
Lead	206-1	33864	33674	33958	33832	0.43	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29494	30038	29701	29744	0.92	cps
Lead	208-1	134988	136183	134343	135171	0.69	cps
Lithium	6-1	8834090	8936056	8528577	8766241	2.42	cps
Magnesium	24-2	273224	267802	273138	271388	1.14	cps
Manganese	55-2	3554	3430	3414	3466	2.21	cps
Molybdenum	94-1	76656	76975	76073	76568	0.60	cps
Molybdenum	95-1	91817	92304	93388	92503	0.87	cps
Molybdenum	96-1	102948	105221	102790	103653	1.31	cps
Molybdenum	97-1	58536	59078	58007	58540	0.91	cps
Molybdenum	98-1	150596	150893	149899	150463	0.34	cps
Neodymium	150-1	37	37	23	32	23.90	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	5214	5208	5198	5207	0.16	cps
Phosphorus	31-2	243	307	350	300	17.88	cps
Potassium	39-2	161889	160558	160959	161136	0.42	cps
Rhodium	103-1	15977263	16141617	15966418	16028433	0.61	cps
Rhodium	103-2	6040761	5973777	6010358	6008299	0.56	cps
Scandium	45-1	12079395	11966247	11606523	11884055	2.08	cps
Scandium	45-2	214287	213064	215618	214323	0.60	cps
Selenium	82-1	2997	2994	2854	2948	2.78	cps
Selenium	77-2	63	47	47	52	18.42	cps
Selenium	78-2	207	157	190	184	13.80	cps
Silicon	28-1	968748	971282	969889	969973	0.13	cps
Silver	107-1	47876	46963	48475	47771	1.59	cps
Silver	109-1	44672	45368	45261	45100	0.83	cps
Sodium	23-2	648203	647888	646460	647517	0.14	cps
Strontium	86-1	12779	12666	12853	12766	0.74	cps
Strontium	88-1	106603	108501	107114	107406	0.91	cps
Sulfur	34-1	780976	779638	775679	778764	0.35	cps
Terbium	159-1	22809446	22539163	22351456	22566689	1.02	cps
Terbium	159-2	6852025	6734997	6786495	6791172	0.86	cps
Thallium	203-1	38905	39262	39700	39289	1.01	cps
Thallium	205-1	92809	94326	93134	93423	0.86	cps
Tin	118-1	157097	156807	157524	157143	0.23	cps
Titanium	47-1	7896	7462	7969	7776	3.52	cps
Uranium	238-1	121292	120556	122389	121413	0.76	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	PB166535BS	Instrumnet Name :	P8
Client Sample ID :	LCS535	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:22:08	DataFile Name :	050LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	31471	31391	31505	31456	0.19	cps
Ytterbium	172-1	117	130	127	124	5.57	cps
Ytterbium	172-2	17	37	50	34	48.70	cps
Ytterbium	176-1	2224	2304	2434	2320	4.57	cps
Ytterbium	176-2	270	347	390	336	18.11	cps
Yttrium	89-1	29797109	29740201	30045295	29860868	0.54	cps
Yttrium	89-2	1961591	1959524	1942555	1954557	0.53	cps
Zinc	66-2	6285	6512	6568	6455	2.32	cps
Zirconium	90-1	64505	64230	64783	64506	0.43	cps
Zirconium	91-1	14324	14464	14341	14376	0.53	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	92103	93055	92807	92655	0.53	cps
Antimony	121-1	10981768	10929026	10965100	10958631	0.25	cps
Arsenic	75-2	211298	210871	210702	210957	0.15	cps
Barium	135-1	5501133	5455725	5599409	5518756	1.33	cps
Barium	137-1	9418740	9504321	9357246	9426769	0.78	cps
Beryllium	9-1	882706	884362	881058	882709	0.19	cps
Bismuth	209-1	14602346	14348832	14320922	14424033	1.07	cps
Bismuth	209-2	5217387	5241179	5313401	5257323	0.95	cps
Bromine	81-1	8790	8549	8719	8686	1.42	cps
Cadmium	108-1	199735	204437	203083	202418	1.20	cps
Cadmium	106-1	282632	281778	282186	282199	0.15	cps
Cadmium	111-1	3209607	3194887	3193714	3199403	0.28	cps
Calcium	43-1	3660	3654	3911	3742	3.91	cps
Calcium	44-1	61932	62552	63580	62688	1.33	cps
Carbon	12-1	4742147	4834421	4894987	4823852	1.60	cps
Carbon	12-2	32202	32001	32259	32154	0.42	cps
Chlorine	35-1	664794	641821	627517	644711	2.92	cps
Chlorine	35-2	2280	2217	2154	2217	2.86	cps
Chromium	52-2	1139755	1135637	1142027	1139140	0.28	cps
Cobalt	59-2	1871392	1802993	1817612	1830666	1.97	cps
Copper	63-2	4992766	4928563	4974331	4965220	0.67	cps
Dysprosium	156-1	97	73	117	96	22.70	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	130	87	87	101	24.74	cps
Erbium	164-2	17	13	40	23	62.27	cps
Gadolinium	160-1	117	130	147	131	11.46	cps
Gadolinium	160-2	20	33	33	29	26.64	cps
Holmium	165-1	22002111	22365116	22284048	22217092	0.86	cps
Holmium	165-2	7094409	7086116	7042523	7074349	0.39	cps
Indium	115-1	17136444	17280666	17243323	17220145	0.43	cps
Indium	115-2	1487758	1494217	1492862	1491612	0.23	cps
Iron	54-2	339428	341560	338739	339909	0.43	cps
Iron	56-2	5741722	5688636	5679363	5703240	0.59	cps
Iron	57-2	138246	138969	139855	139023	0.58	cps
Krypton	83-1	293	353	283	310	12.21	cps
Lead	206-1	11661946	11753405	11846339	11753897	0.78	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9609077	9882139	9619464	9703560	1.59	cps
Lead	208-1	45816464	45738653	45720506	45758541	0.11	cps
Lithium	6-1	8696316	8776299	8627424	8700013	0.86	cps
Magnesium	24-2	2424	2134	2327	2295	6.44	cps
Manganese	55-2	1145672	1146564	1145884	1146040	0.04	cps
Molybdenum	94-1	2585965	2557529	2522885	2555460	1.24	cps
Molybdenum	95-1	4427270	4479780	4373532	4426861	1.20	cps
Molybdenum	96-1	4808611	4869935	4768524	4815690	1.06	cps
Molybdenum	97-1	2800071	2827797	2817038	2814969	0.50	cps
Molybdenum	98-1	7255582	7334358	7299770	7296570	0.54	cps
Neodymium	150-1	320	343	337	333	3.61	cps
Neodymium	150-2	7	10	7	8	24.71	cps
Nickel	60-2	1066575	1065491	1073795	1068620	0.42	cps
Phosphorus	31-2	83	107	90	93	12.88	cps
Potassium	39-2	14114	14057	13963	14045	0.54	cps
Rhodium	103-1	16489371	16088193	16296377	16291314	1.23	cps
Rhodium	103-2	5959215	5923860	5996269	5959781	0.61	cps
Scandium	45-1	11961349	11842770	11865324	11889814	0.53	cps
Scandium	45-2	210671	211790	209538	210666	0.53	cps
Selenium	82-1	68414	69362	69375	69050	0.80	cps
Selenium	77-2	1000	1147	1013	1053	7.70	cps
Selenium	78-2	3557	3490	3520	3523	0.95	cps
Silicon	28-1	625737	618642	617164	620514	0.74	cps
Silver	107-1	17569543	17656601	17205172	17477106	1.37	cps
Silver	109-1	16482270	16711902	16363330	16519167	1.07	cps
Sodium	23-2	94530	95288	95144	94987	0.42	cps
Strontium	86-1	347121	349926	348504	348517	0.40	cps
Strontium	88-1	3119337	3179429	3101648	3133471	1.30	cps
Sulfur	34-1	744427	727649	716124	729400	1.95	cps
Terbium	159-1	22993074	22801650	22795465	22863396	0.49	cps
Terbium	159-2	6755016	6828612	6762261	6781963	0.60	cps
Thallium	203-1	14115366	14248514	14390613	14251498	0.97	cps
Thallium	205-1	34002759	33542965	34037445	33861056	0.82	cps
Tin	118-1	3467	3314	3444	3408	2.42	cps
Titanium	47-1	1117	1137	1010	1088	6.26	cps
Uranium	238-1	73	47	43	54	30.20	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:25:28	DataFile Name :	051AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4972294	4850952	4976568	4933271	1.45	cps
Ytterbium	172-1	130	153	110	131	16.54	cps
Ytterbium	172-2	53	37	43	44	18.87	cps
Ytterbium	176-1	2114	2070	2130	2105	1.47	cps
Ytterbium	176-2	350	327	323	333	4.36	cps
Yttrium	89-1	30325485	29735100	29710219	29923601	1.16	cps
Yttrium	89-2	1926492	1918882	1943976	1929783	0.67	cps
Zinc	66-2	594584	596726	596457	595922	0.20	cps
Zirconium	90-1	1643	1643	1643	1643	0.00	cps
Zirconium	91-1	2557	2524	2257	2446	6.72	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	247813	248627	246240	247560	0.49	cps
Antimony	121-1	15024561	15413517	15108436	15182171	1.35	cps
Arsenic	75-2	107372	107264	106855	107164	0.25	cps
Barium	135-1	2737364	2718845	2683637	2713282	1.01	cps
Barium	137-1	4726307	4602039	4657779	4662042	1.34	cps
Beryllium	9-1	926952	930442	930338	929244	0.21	cps
Bismuth	209-1	14418274	14637526	14562435	14539412	0.77	cps
Bismuth	209-2	5247861	5276719	5303033	5275871	0.52	cps
Bromine	81-1	7819	8059	8149	8009	2.13	cps
Cadmium	108-1	87696	87713	88750	88053	0.69	cps
Cadmium	106-1	125801	124617	123092	124503	1.09	cps
Cadmium	111-1	1305011	1317412	1316581	1313001	0.53	cps
Calcium	43-1	3584	3734	3584	3634	2.38	cps
Calcium	44-1	58408	59512	59235	59052	0.97	cps
Carbon	12-1	5626045	5672496	5639458	5646000	0.42	cps
Carbon	12-2	36960	36913	37337	37070	0.63	cps
Chlorine	35-1	516431	512236	504631	511099	1.17	cps
Chlorine	35-2	1910	1843	1920	1891	2.20	cps
Chromium	52-2	1417788	1372191	1406284	1398754	1.70	cps
Cobalt	59-2	5810186	5800638	5796492	5802439	0.12	cps
Copper	63-2	1303054	1303282	1298815	1301717	0.19	cps
Dysprosium	156-1	63	73	63	67	8.66	cps
Dysprosium	156-2	10	0	10	7	86.60	cps
Erbium	164-1	117	83	183	128	39.85	cps
Erbium	164-2	27	20	33	27	24.99	cps
Gadolinium	160-1	127	147	127	133	8.66	cps
Gadolinium	160-2	23	23	23	23	0.00	cps
Holmium	165-1	22501466	22008760	22643381	22384536	1.49	cps
Holmium	165-2	7056117	7150249	7064614	7090327	0.73	cps
Indium	115-1	17368770	17081079	17289857	17246569	0.86	cps
Indium	115-2	1486566	1489653	1484913	1487044	0.16	cps
Iron	54-2	482428	483420	482132	482660	0.14	cps
Iron	56-2	8292058	8321182	8387954	8333731	0.59	cps
Iron	57-2	202862	201439	203214	202505	0.46	cps
Krypton	83-1	333	300	293	309	6.94	cps
Lead	206-1	15103930	15617526	15372522	15364659	1.67	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12624880	12726301	12937682	12762955	1.25	cps
Lead	208-1	59263501	60145655	60592632	60000596	1.13	cps
Lithium	6-1	8701992	8495524	8834841	8677452	1.97	cps
Magnesium	24-2	2430	2560	2544	2511	2.82	cps
Manganese	55-2	974182	969586	979222	974330	0.49	cps
Molybdenum	94-1	3033248	3088940	3055716	3059301	0.92	cps
Molybdenum	95-1	5333430	5274245	5394055	5333910	1.12	cps
Molybdenum	96-1	5856213	5822459	5821110	5833261	0.34	cps
Molybdenum	97-1	3349405	3386020	3337768	3357731	0.75	cps
Molybdenum	98-1	8632008	8827560	8734798	8731455	1.12	cps
Neodymium	150-1	220	257	177	218	18.39	cps
Neodymium	150-2	3	13	7	8	65.47	cps
Nickel	60-2	3833732	3725840	3817296	3792289	1.53	cps
Phosphorus	31-2	83	80	87	83	4.00	cps
Potassium	39-2	13647	14027	13980	13885	1.49	cps
Rhodium	103-1	16098464	16307100	16021805	16142456	0.91	cps
Rhodium	103-2	5949518	5889589	5890902	5910003	0.58	cps
Scandium	45-1	12095409	11710605	11757593	11854535	1.77	cps
Scandium	45-2	209596	210543	211625	210588	0.48	cps
Selenium	82-1	188470	187220	185933	187207	0.68	cps
Selenium	77-2	2857	2970	2614	2814	6.48	cps
Selenium	78-2	9513	9617	9413	9514	1.07	cps
Silicon	28-1	605000	604402	605061	604821	0.06	cps
Silver	107-1	22960994	22483975	22500992	22648654	1.19	cps
Silver	109-1	21522031	21668995	21846421	21679149	0.75	cps
Sodium	23-2	96150	95100	95439	95563	0.56	cps
Strontium	86-1	437088	440469	440750	439436	0.46	cps
Strontium	88-1	3939634	3971775	3956155	3955855	0.41	cps
Sulfur	34-1	712580	704414	698489	705161	1.00	cps
Terbium	159-1	22787977	23026056	22678766	22830933	0.78	cps
Terbium	159-2	6717369	6849671	6829379	6798806	1.05	cps
Thallium	203-1	3476615	3550108	3452046	3492923	1.46	cps
Thallium	205-1	8154620	8261013	8156371	8190668	0.74	cps
Tin	118-1	3777	3614	3827	3739	2.98	cps
Titanium	47-1	1097	1067	1167	1110	4.62	cps
Uranium	238-1	40	63	30	44	38.48	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:28:31	DataFile Name :	052AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	242487	239282	245400	242389	1.26	cps
Ytterbium	172-1	150	177	147	158	10.42	cps
Ytterbium	172-2	50	40	57	49	17.16	cps
Ytterbium	176-1	2324	2290	2100	2238	5.38	cps
Ytterbium	176-2	253	293	333	293	13.64	cps
Yttrium	89-1	29873061	29740036	29789855	29800984	0.23	cps
Yttrium	89-2	1922027	1922228	1900480	1914912	0.65	cps
Zinc	66-2	733383	734246	734882	734170	0.10	cps
Zirconium	90-1	1240	1227	1367	1278	6.05	cps
Zirconium	91-1	1233	1240	1263	1246	1.26	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	240053	243330	246745	243376	1.37	cps
Antimony	121-1	8122	7746	7385	7751	4.76	cps
Arsenic	75-2	4157	4284	4064	4168	2.65	cps
Barium	135-1	90251	91117	90342	90570	0.53	cps
Barium	137-1	158753	157371	156871	157665	0.62	cps
Beryllium	9-1	1987	2017	1895	1967	3.25	cps
Bismuth	209-1	13942109	13867331	13956201	13921880	0.34	cps
Bismuth	209-2	5158312	5152044	5175560	5161972	0.24	cps
Bromine	81-1	22004	23981	24718	23568	5.96	cps
Cadmium	108-1	103	80	103	96	14.10	cps
Cadmium	106-1	8192	8359	8476	8343	1.71	cps
Cadmium	111-1	6142	6276	6421	6280	2.22	cps
Calcium	43-1	1821612	1808411	1787166	1805730	0.96	cps
Calcium	44-1	29244605	28731189	28904020	28959938	0.90	cps
Carbon	12-1	10929833	11788036	12231823	11649897	5.68	cps
Carbon	12-2	84474	85202	86693	85456	1.32	cps
Chlorine	35-1	1611457	1722230	1805951	1713213	5.69	cps
Chlorine	35-2	7062	7382	7555	7333	3.41	cps
Chromium	52-2	24281	24601	25095	24659	1.66	cps
Cobalt	59-2	14804	15005	15058	14956	0.89	cps
Copper	63-2	18586	19283	19146	19005	1.94	cps
Dysprosium	156-1	11175	10828	11238	11080	1.99	cps
Dysprosium	156-2	3064	3350	3460	3292	6.22	cps
Erbium	164-1	9714	9577	9797	9696	1.15	cps
Erbium	164-2	2984	2997	3157	3046	3.17	cps
Gadolinium	160-1	11118	10734	10945	10932	1.76	cps
Gadolinium	160-2	3947	3934	4064	3982	1.80	cps
Holmium	165-1	21642210	21451808	21900345	21664787	1.04	cps
Holmium	165-2	6955854	6990193	7061437	7002495	0.77	cps
Indium	115-1	16569808	16175606	16660099	16468504	1.56	cps
Indium	115-2	1442136	1463093	1476238	1460489	1.18	cps
Iron	54-2	1131926	1122183	1144983	1133031	1.01	cps
Iron	56-2	21570888	21563512	21750731	21628377	0.49	cps
Iron	57-2	520124	515614	528011	521249	1.20	cps
Krypton	83-1	273	273	287	278	2.77	cps
Lead	206-1	136530	134152	135344	135342	0.88	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	112963	110853	112517	112111	0.99	cps
Lead	208-1	529565	522905	525266	525912	0.64	cps
Lithium	6-1	8369123	8481575	8335955	8395551	0.91	cps
Magnesium	24-2	2709299	2729971	2770511	2736593	1.14	cps
Manganese	55-2	220880	217918	222982	220593	1.15	cps
Molybdenum	94-1	5841	5595	5878	5771	2.67	cps
Molybdenum	95-1	2077	1903	2000	1993	4.36	cps
Molybdenum	96-1	2960	2897	2987	2948	1.57	cps
Molybdenum	97-1	1260	1273	1213	1249	2.52	cps
Molybdenum	98-1	3334	3090	3030	3152	5.10	cps
Neodymium	150-1	17708	17505	17104	17439	1.76	cps
Neodymium	150-2	3997	4014	3937	3983	1.01	cps
Nickel	60-2	14244	14531	14748	14508	1.74	cps
Phosphorus	31-2	1040	947	1087	1024	6.96	cps
Potassium	39-2	133450	134809	136929	135063	1.30	cps
Rhodium	103-1	15530186	15328885	15392006	15417026	0.67	cps
Rhodium	103-2	5721527	5726515	5882710	5776917	1.59	cps
Scandium	45-1	11741411	11467285	11649792	11619496	1.20	cps
Scandium	45-2	206688	208794	213900	209794	1.77	cps
Selenium	82-1	117	163	183	154	22.15	cps
Selenium	77-2	17	13	33	21	50.75	cps
Selenium	78-2	37	27	37	33	17.32	cps
Silicon	28-1	99405529	98144652	97133165	98227782	1.16	cps
Silver	107-1	3394	3250	3030	3225	5.68	cps
Silver	109-1	3350	2937	3004	3097	7.17	cps
Sodium	23-2	2704139	2746120	2707012	2719090	0.86	cps
Strontium	86-1	630453	623697	625300	626483	0.56	cps
Strontium	88-1	5635766	5649266	5530750	5605261	1.16	cps
Sulfur	34-1	1053076	1035172	1067068	1051772	1.52	cps
Terbium	159-1	22623262	22158546	22411167	22397658	1.04	cps
Terbium	159-2	6625068	6790546	6796641	6737418	1.44	cps
Thallium	203-1	2234	2284	2244	2254	1.17	cps
Thallium	205-1	5498	5515	5198	5403	3.30	cps
Tin	118-1	4084	3701	3791	3858	5.20	cps
Titanium	47-1	387924	378321	385718	383988	1.31	cps
Uranium	238-1	40615	39789	41136	40513	1.68	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-05	Instrumnet Name :	P8
Client Sample ID :	A6327	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:31:33	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20401	20375	20702	20493	0.89	cps
Ytterbium	172-1	3344	3220	3270	3278	1.89	cps
Ytterbium	172-2	1230	1297	1237	1255	2.93	cps
Ytterbium	176-1	4101	4144	3971	4072	2.22	cps
Ytterbium	176-2	977	1013	990	993	1.87	cps
Yttrium	89-1	29289125	29089575	29638429	29339043	0.95	cps
Yttrium	89-2	1883087	1886795	1965224	1911702	2.43	cps
Zinc	66-2	12939	12372	12889	12734	2.47	cps
Zirconium	90-1	12162	14959	12462	13194	11.64	cps
Zirconium	91-1	2934	2450	2644	2676	9.09	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1413	1280	1277	1323	5.89	cps
Antimony	121-1	3244	3234	3164	3214	1.36	cps
Arsenic	75-2	410	493	493	466	10.33	cps
Barium	135-1	28530	28560	28700	28597	0.32	cps
Barium	137-1	51237	49905	50373	50505	1.34	cps
Beryllium	9-1	711	670	674	685	3.33	cps
Bismuth	209-1	13719906	13819076	13579204	13706062	0.88	cps
Bismuth	209-2	5103653	5126281	5049308	5093081	0.78	cps
Bromine	81-1	32895	39930	44487	39104	14.93	cps
Cadmium	108-1	60	33	70	54	34.82	cps
Cadmium	106-1	8746	8499	8303	8516	2.61	cps
Cadmium	111-1	6160	6016	5863	6013	2.47	cps
Calcium	43-1	3218390	3336073	3366650	3307038	2.37	cps
Calcium	44-1	53018966	54181543	53377364	53525958	1.11	cps
Carbon	12-1	8154733	9026664	9397726	8859708	7.20	cps
Carbon	12-2	64343	66011	66955	65770	2.01	cps
Chlorine	35-1	7237218	8261684	8774008	8090970	9.67	cps
Chlorine	35-2	35233	35905	36282	35807	1.48	cps
Chromium	52-2	3477	3300	3374	3384	2.62	cps
Cobalt	59-2	993	893	923	937	5.48	cps
Copper	63-2	5314	4898	5201	5138	4.19	cps
Dysprosium	156-1	123	133	133	130	4.44	cps
Dysprosium	156-2	23	43	20	29	43.68	cps
Erbium	164-1	183	197	177	186	5.49	cps
Erbium	164-2	43	57	47	49	14.20	cps
Gadolinium	160-1	190	160	227	192	17.37	cps
Gadolinium	160-2	43	73	63	60	25.46	cps
Holmium	165-1	22214312	22135651	22154164	22168042	0.19	cps
Holmium	165-2	6995383	7034026	6948890	6992766	0.61	cps
Indium	115-1	16792483	16779655	16673028	16748388	0.39	cps
Indium	115-2	1429667	1473942	1441722	1448444	1.58	cps
Iron	54-2	19887	19367	19884	19713	1.52	cps
Iron	56-2	359746	361392	359978	360372	0.25	cps
Iron	57-2	8830	8893	9143	8955	1.85	cps
Krypton	83-1	363	290	300	318	12.51	cps
Lead	206-1	3874	3751	3707	3777	2.29	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3384	3224	3204	3270	3.02	cps
Lead	208-1	15497	14977	14927	15134	2.09	cps
Lithium	6-1	8455209	8363531	8288305	8369015	1.00	cps
Magnesium	24-2	4789075	4859335	4816488	4821632	0.73	cps
Manganese	55-2	97684	97852	99356	98297	0.94	cps
Molybdenum	94-1	1507	1523	1480	1503	1.45	cps
Molybdenum	95-1	1720	1630	1667	1672	2.71	cps
Molybdenum	96-1	1913	1850	1977	1913	3.31	cps
Molybdenum	97-1	1043	947	1013	1001	4.94	cps
Molybdenum	98-1	2620	2570	2607	2599	1.00	cps
Neodymium	150-1	123	160	190	158	21.16	cps
Neodymium	150-2	20	30	30	27	21.65	cps
Nickel	60-2	2014	2010	2177	2067	4.61	cps
Phosphorus	31-2	337	320	293	317	6.90	cps
Potassium	39-2	549824	555389	554320	553178	0.53	cps
Rhodium	103-1	15460219	15384794	15213957	15352990	0.82	cps
Rhodium	103-2	5605606	5734216	5728686	5689503	1.28	cps
Scandium	45-1	11637961	11901294	11648558	11729271	1.27	cps
Scandium	45-2	206389	211236	207347	208324	1.23	cps
Selenium	82-1	-13	103	10	33	185.19	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	17	13	13	14	13.35	cps
Silicon	28-1	101219305	101176678	100130822	100842268	0.61	cps
Silver	107-1	957	1003	997	986	2.56	cps
Silver	109-1	790	793	810	798	1.34	cps
Sodium	23-2	30601425	30469846	30284543	30451938	0.52	cps
Strontium	86-1	1573569	1580525	1594888	1582994	0.69	cps
Strontium	88-1	13504237	13773341	13413156	13563578	1.38	cps
Sulfur	34-1	1678011	1701210	1682552	1687258	0.73	cps
Terbium	159-1	22368972	22357041	22316045	22347353	0.12	cps
Terbium	159-2	6671218	6874653	6690106	6745326	1.67	cps
Thallium	203-1	990	907	913	937	4.94	cps
Thallium	205-1	2314	2247	2207	2256	2.39	cps
Tin	118-1	7332	7272	7275	7293	0.46	cps
Titanium	47-1	3307	3464	3490	3420	2.90	cps
Uranium	238-1	22857	23408	23589	23285	1.64	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-06	Instrumnet Name :	P8
Client Sample ID :	A6328	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:34:51	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	780	780	737	766	3.27	cps
Ytterbium	172-1	163	110	153	142	19.94	cps
Ytterbium	172-2	77	83	73	78	6.55	cps
Ytterbium	176-1	2027	2340	2014	2127	8.69	cps
Ytterbium	176-2	237	260	317	271	15.18	cps
Yttrium	89-1	29157352	29631833	29221215	29336800	0.88	cps
Yttrium	89-2	1901632	1944295	1910821	1918916	1.17	cps
Zinc	66-2	1060	1110	1103	1091	2.49	cps
Zirconium	90-1	1460	1527	1573	1520	3.75	cps
Zirconium	91-1	323	333	357	338	5.06	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1150	1097	1297	1181	8.77	cps
Antimony	121-1	2374	2544	2407	2441	3.69	cps
Arsenic	75-2	393	423	443	420	5.99	cps
Barium	135-1	26546	26105	26870	26507	1.45	cps
Barium	137-1	45205	45710	46329	45748	1.23	cps
Beryllium	9-1	646	597	631	625	4.00	cps
Bismuth	209-1	13810710	13977152	13639109	13808990	1.22	cps
Bismuth	209-2	5038408	5031174	5007934	5025839	0.32	cps
Bromine	81-1	33767	38753	40923	37815	9.70	cps
Cadmium	108-1	47	30	43	40	22.05	cps
Cadmium	106-1	8426	8586	7962	8325	3.89	cps
Cadmium	111-1	5929	6026	5600	5852	3.81	cps
Calcium	43-1	3075075	3122525	3064696	3087432	1.00	cps
Calcium	44-1	49410688	50131623	49123874	49555395	1.05	cps
Carbon	12-1	7706907	8341767	8536277	8194984	5.29	cps
Carbon	12-2	58958	59208	58783	58983	0.36	cps
Chlorine	35-1	7331995	8326323	8537617	8065312	7.98	cps
Chlorine	35-2	33916	33763	35146	34275	2.21	cps
Chromium	52-2	2330	2244	2257	2277	2.05	cps
Cobalt	59-2	883	873	877	878	0.58	cps
Copper	63-2	4928	4878	4811	4872	1.20	cps
Dysprosium	156-1	140	117	103	120	15.47	cps
Dysprosium	156-2	37	27	10	24	55.11	cps
Erbium	164-1	163	173	173	170	3.40	cps
Erbium	164-2	67	60	90	72	21.81	cps
Gadolinium	160-1	147	173	227	182	22.35	cps
Gadolinium	160-2	53	70	53	59	16.34	cps
Holmium	165-1	22117395	22146561	21607424	21957126	1.38	cps
Holmium	165-2	7030571	6926447	6764783	6907267	1.94	cps
Indium	115-1	16913108	16495407	16691460	16699992	1.25	cps
Indium	115-2	1439533	1438287	1417113	1431644	0.88	cps
Iron	54-2	14694	15011	15222	14976	1.77	cps
Iron	56-2	270371	265349	268415	268045	0.94	cps
Iron	57-2	6778	7162	6812	6917	3.07	cps
Krypton	83-1	260	307	240	269	12.72	cps
Lead	206-1	3317	3224	3134	3225	2.84	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2800	2827	2790	2806	0.68	cps
Lead	208-1	12723	12699	12559	12660	0.70	cps
Lithium	6-1	8411336	8320847	8413277	8381820	0.63	cps
Magnesium	24-2	4398075	4363232	4353037	4371448	0.54	cps
Manganese	55-2	81658	80958	81950	81522	0.63	cps
Molybdenum	94-1	1250	1387	1270	1302	5.67	cps
Molybdenum	95-1	1463	1243	1287	1331	8.76	cps
Molybdenum	96-1	1570	1440	1410	1473	5.77	cps
Molybdenum	97-1	827	850	793	823	3.46	cps
Molybdenum	98-1	2207	2280	2200	2229	1.99	cps
Neodymium	150-1	147	133	133	138	5.59	cps
Neodymium	150-2	33	23	17	24	34.31	cps
Nickel	60-2	1820	1833	1820	1825	0.42	cps
Phosphorus	31-2	230	253	293	259	12.37	cps
Potassium	39-2	496993	493239	495022	495085	0.38	cps
Rhodium	103-1	15579474	15122022	15177896	15293130	1.63	cps
Rhodium	103-2	5704864	5622864	5512403	5613377	1.72	cps
Scandium	45-1	11819809	11793606	11479776	11697730	1.62	cps
Scandium	45-2	209448	207474	202800	206574	1.65	cps
Selenium	82-1	53	17	67	46	56.83	cps
Selenium	77-2	3	3	3	3	0.00	cps
Selenium	78-2	7	10	7	8	24.71	cps
Silicon	28-1	92762092	94027385	90580955	92456811	1.89	cps
Silver	107-1	477	453	497	476	4.56	cps
Silver	109-1	357	347	447	383	14.37	cps
Sodium	23-2	28056950	27210560	27523030	27596847	1.55	cps
Strontium	86-1	1370163	1401424	1411191	1394259	1.54	cps
Strontium	88-1	12507451	12514844	12534852	12519049	0.11	cps
Sulfur	34-1	1643467	1614167	1641978	1633204	1.01	cps
Terbium	159-1	22706309	22483442	22005798	22398516	1.60	cps
Terbium	159-2	6796896	6632969	6613115	6680994	1.51	cps
Thallium	203-1	943	843	730	839	12.72	cps
Thallium	205-1	1997	1897	1917	1937	2.73	cps
Tin	118-1	5324	4984	4704	5004	6.21	cps
Titanium	47-1	3250	3160	2830	3080	7.18	cps
Uranium	238-1	21047	21662	21238	21316	1.48	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-07	Instrumnet Name :	P8
Client Sample ID :	A6329	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:38:06	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	700	770	630	700	10.00	cps
Ytterbium	172-1	193	160	150	168	13.53	cps
Ytterbium	172-2	70	77	60	69	12.18	cps
Ytterbium	176-1	2094	2250	2097	2147	4.17	cps
Ytterbium	176-2	313	320	300	311	3.27	cps
Yttrium	89-1	29307084	29261824	28733235	29100714	1.10	cps
Yttrium	89-2	1878184	1835704	1860995	1858294	1.15	cps
Zinc	66-2	790	877	710	792	10.52	cps
Zirconium	90-1	1463	1667	1540	1557	6.60	cps
Zirconium	91-1	257	307	323	296	11.74	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10764	10417	10994	10725	2.71	cps
Antimony	121-1	4908	5248	4994	5050	3.50	cps
Arsenic	75-2	2050	2087	2017	2051	1.71	cps
Barium	135-1	37987	37211	37164	37454	1.23	cps
Barium	137-1	65474	64764	64590	64943	0.72	cps
Beryllium	9-1	574	664	642	627	7.51	cps
Bismuth	209-1	14190619	14127821	13980357	14099599	0.77	cps
Bismuth	209-2	5109507	5049624	5100933	5086688	0.64	cps
Bromine	81-1	33691	36898	38840	36476	7.13	cps
Cadmium	108-1	47	67	20	44	52.68	cps
Cadmium	106-1	8149	8196	8249	8198	0.61	cps
Cadmium	111-1	5802	5854	5920	5859	1.02	cps
Calcium	43-1	2376951	2394747	2392400	2388032	0.40	cps
Calcium	44-1	38002236	38274614	38855992	38377614	1.14	cps
Carbon	12-1	10145749	10722009	11219845	10695868	5.03	cps
Carbon	12-2	73533	76179	74065	74592	1.88	cps
Chlorine	35-1	3873338	4136742	4282419	4097500	5.06	cps
Chlorine	35-2	16790	16566	16723	16693	0.69	cps
Chromium	52-2	5358	5244	5418	5340	1.65	cps
Cobalt	59-2	2937	2937	2974	2949	0.72	cps
Copper	63-2	9443	9450	9510	9468	0.39	cps
Dysprosium	156-1	863	863	853	860	0.67	cps
Dysprosium	156-2	237	203	243	228	9.41	cps
Erbium	164-1	830	767	790	796	4.03	cps
Erbium	164-2	227	227	197	217	7.99	cps
Gadolinium	160-1	863	933	790	862	8.31	cps
Gadolinium	160-2	310	287	283	293	4.95	cps
Holmium	165-1	22146211	21706564	21874926	21909234	1.01	cps
Holmium	165-2	6978241	6896357	6898702	6924433	0.67	cps
Indium	115-1	16861363	16377343	16426408	16555038	1.61	cps
Indium	115-2	1432669	1431918	1429229	1431272	0.13	cps
Iron	54-2	568281	569926	570949	569719	0.24	cps
Iron	56-2	10845182	10881173	10691325	10805893	0.93	cps
Iron	57-2	262907	263190	261508	262535	0.34	cps
Krypton	83-1	250	313	293	286	11.34	cps
Lead	206-1	10364	10174	10327	10289	0.98	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9040	8550	8359	8650	4.06	cps
Lead	208-1	40852	39761	39577	40063	1.72	cps
Lithium	6-1	8377615	8318364	8211567	8302515	1.01	cps
Magnesium	24-2	4479410	4388339	4405480	4424410	1.09	cps
Manganese	55-2	740632	744881	743170	742895	0.29	cps
Molybdenum	94-1	2074	2124	2124	2107	1.37	cps
Molybdenum	95-1	2200	2194	1957	2117	6.55	cps
Molybdenum	96-1	2490	2417	2444	2450	1.52	cps
Molybdenum	97-1	1270	1287	1277	1278	0.66	cps
Molybdenum	98-1	3490	3440	3490	3474	0.83	cps
Neodymium	150-1	1183	1180	1157	1173	1.24	cps
Neodymium	150-2	307	223	287	272	15.98	cps
Nickel	60-2	2900	2974	2974	2949	1.44	cps
Phosphorus	31-2	657	670	650	659	1.55	cps
Potassium	39-2	365300	369548	368754	367868	0.61	cps
Rhodium	103-1	15277321	15237523	15365138	15293327	0.43	cps
Rhodium	103-2	5698791	5706177	5667426	5690798	0.36	cps
Scandium	45-1	11582903	11534820	11510877	11542866	0.32	cps
Scandium	45-2	203341	204987	199976	202768	1.26	cps
Selenium	82-1	73	63	-20	39	131.76	cps
Selenium	77-2	0	10	7	6	91.64	cps
Selenium	78-2	10	17	7	11	45.82	cps
Silicon	28-1	95919345	94955562	95160859	95345255	0.53	cps
Silver	107-1	947	1047	1057	1017	5.98	cps
Silver	109-1	913	847	910	890	4.22	cps
Sodium	23-2	9319554	9436491	9256499	9337515	0.98	cps
Strontium	86-1	956820	961691	962459	960323	0.32	cps
Strontium	88-1	8684647	8710029	8593082	8662586	0.71	cps
Sulfur	34-1	1477696	1515819	1497823	1497113	1.27	cps
Terbium	159-1	22768395	22460560	22294049	22507668	1.07	cps
Terbium	159-2	6567202	6726001	6541033	6611412	1.51	cps
Thallium	203-1	747	743	783	758	2.93	cps
Thallium	205-1	1890	1893	1980	1921	2.66	cps
Tin	118-1	7165	7459	7069	7231	2.81	cps
Titanium	47-1	20007	19640	19827	19825	0.93	cps
Uranium	238-1	15389	15446	15463	15433	0.25	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-08	Instrumnet Name :	P8
Client Sample ID :	A6330	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:41:25	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1460	1483	1440	1461	1.48	cps
Ytterbium	172-1	303	317	310	310	2.15	cps
Ytterbium	172-2	113	127	140	127	10.53	cps
Ytterbium	176-1	2250	2244	2300	2265	1.37	cps
Ytterbium	176-2	373	357	330	353	6.19	cps
Yttrium	89-1	29267070	28877291	29483660	29209340	1.05	cps
Yttrium	89-2	1857543	1871414	1841329	1856762	0.81	cps
Zinc	66-2	3127	3130	3004	3087	2.34	cps
Zirconium	90-1	2574	2774	2640	2663	3.83	cps
Zirconium	91-1	567	507	550	541	5.72	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	98873	99951	99675	99499	0.56	cps
Antimony	121-1	1623	1703	1653	1660	2.43	cps
Arsenic	75-2	730	807	957	831	13.87	cps
Barium	135-1	87709	88684	87829	88074	0.60	cps
Barium	137-1	152651	154140	152574	153122	0.58	cps
Beryllium	9-1	914	926	925	922	0.75	cps
Bismuth	209-1	13971426	13982292	14012098	13988605	0.15	cps
Bismuth	209-2	5231245	4448486	5125217	4934982	8.60	cps
Bromine	81-1	30089	33430	35912	33144	8.82	cps
Cadmium	108-1	63	40	43	49	25.81	cps
Cadmium	106-1	8119	8099	8086	8101	0.21	cps
Cadmium	111-1	5869	5891	5890	5883	0.21	cps
Calcium	43-1	642116	637294	650646	643352	1.05	cps
Calcium	44-1	10913789	10825286	10749928	10829667	0.76	cps
Carbon	12-1	9634507	10246861	10482923	10121430	4.33	cps
Carbon	12-2	71493	71757	72628	71959	0.83	cps
Chlorine	35-1	4323015	4678110	4904043	4635056	6.32	cps
Chlorine	35-2	18605	18986	19246	18946	1.70	cps
Chromium	52-2	11064	11318	10864	11082	2.05	cps
Cobalt	59-2	5901	5614	5761	5759	2.49	cps
Copper	63-2	12976	12939	12916	12944	0.23	cps
Dysprosium	156-1	2820	2707	2857	2795	2.80	cps
Dysprosium	156-2	720	823	837	793	8.05	cps
Erbium	164-1	2194	2194	2217	2201	0.61	cps
Erbium	164-2	613	597	633	614	2.99	cps
Gadolinium	160-1	2554	2554	2327	2478	5.28	cps
Gadolinium	160-2	973	943	903	940	3.74	cps
Holmium	165-1	21743921	21669190	21792921	21735344	0.29	cps
Holmium	165-2	7084989	5993926	6988382	6689099	9.03	cps
Indium	115-1	16680631	16391018	16560863	16544171	0.88	cps
Indium	115-2	1464676	1216357	1441183	1374072	9.98	cps
Iron	54-2	331176	331348	330685	331070	0.10	cps
Iron	56-2	6200554	6303572	6253847	6252658	0.82	cps
Iron	57-2	153604	152779	154045	153476	0.42	cps
Krypton	83-1	300	263	240	268	11.30	cps
Lead	206-1	77751	78540	79341	78544	1.01	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	65514	66600	67639	66584	1.60	cps
Lead	208-1	307786	309880	313067	310244	0.86	cps
Lithium	6-1	8395655	8351605	8223221	8323494	1.08	cps
Magnesium	24-2	687592	689512	690683	689263	0.23	cps
Manganese	55-2	621806	629846	622310	624654	0.72	cps
Molybdenum	94-1	2167	2137	2287	2197	3.61	cps
Molybdenum	95-1	1603	1873	1710	1729	7.87	cps
Molybdenum	96-1	2104	2080	2174	2119	2.29	cps
Molybdenum	97-1	1030	1147	1137	1105	5.86	cps
Molybdenum	98-1	3067	2914	3067	3016	2.94	cps
Neodymium	150-1	4254	4324	4317	4299	0.90	cps
Neodymium	150-2	947	953	1060	987	6.45	cps
Nickel	60-2	4874	5108	4974	4985	2.35	cps
Phosphorus	31-2	483	577	560	540	9.22	cps
Potassium	39-2	346810	351022	349818	349217	0.62	cps
Rhodium	103-1	15727039	15452103	15292719	15490620	1.42	cps
Rhodium	103-2	5903171	4914980	5721054	5513069	9.54	cps
Scandium	45-1	11470892	11382754	11363920	11405855	0.50	cps
Scandium	45-2	206718	174917	203477	195038	8.97	cps
Selenium	82-1	-57	70	100	38	220.12	cps
Selenium	77-2	3	10	7	7	50.03	cps
Selenium	78-2	10	7	27	14	74.18	cps
Silicon	28-1	59746277	59448309	59868357	59687648	0.36	cps
Silver	107-1	490	523	533	516	4.40	cps
Silver	109-1	330	313	310	318	3.37	cps
Sodium	23-2	15006197	14914439	15015480	14978705	0.37	cps
Strontium	86-1	329753	332269	331952	331324	0.41	cps
Strontium	88-1	3025085	3018176	3051618	3031626	0.58	cps
Sulfur	34-1	1069749	1067948	1056594	1064764	0.67	cps
Terbium	159-1	22594123	22481448	22472817	22516129	0.30	cps
Terbium	159-2	6889964	5721800	6550121	6387295	9.41	cps
Thallium	203-1	1060	1177	1100	1112	5.33	cps
Thallium	205-1	2647	2537	2664	2616	2.63	cps
Tin	118-1	8383	8069	8503	8318	2.69	cps
Titanium	47-1	134994	136314	136654	135987	0.64	cps
Uranium	238-1	9510	9610	9157	9426	2.53	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09	Instrumnet Name :	P8
Client Sample ID :	A6335	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:44:40	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7839	7766	7599	7734	1.59	cps
Ytterbium	172-1	677	703	660	680	3.21	cps
Ytterbium	172-2	263	303	237	268	12.53	cps
Ytterbium	176-1	2637	2344	2427	2469	6.12	cps
Ytterbium	176-2	410	497	463	457	9.57	cps
Yttrium	89-1	29311644	28723496	28876356	28970499	1.05	cps
Yttrium	89-2	1906339	1589162	1872708	1789403	9.74	cps
Zinc	66-2	7756	7872	7552	7727	2.10	cps
Zirconium	90-1	3127	3307	3427	3287	4.60	cps
Zirconium	91-1	667	650	743	687	7.25	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	102760	100746	100527	101344	1.21	cps
Antimony	121-1	1610	1603	1717	1643	3.87	cps
Arsenic	75-2	680	790	827	766	9.97	cps
Barium	135-1	88392	90712	89316	89473	1.31	cps
Barium	137-1	156065	156494	163371	158643	2.58	cps
Beryllium	9-1	946	812	895	885	7.63	cps
Bismuth	209-1	14053982	13922193	13941679	13972618	0.51	cps
Bismuth	209-2	5168129	5281095	5194443	5214556	1.13	cps
Bromine	81-1	28619	32902	35525	32349	10.78	cps
Cadmium	108-1	67	57	67	63	9.12	cps
Cadmium	106-1	8263	8159	8109	8177	0.96	cps
Cadmium	111-1	5974	5942	5900	5938	0.63	cps
Calcium	43-1	644037	643291	652353	646561	0.78	cps
Calcium	44-1	10889995	10782523	10782480	10818333	0.57	cps
Carbon	12-1	9237527	9911000	10155157	9767894	4.87	cps
Carbon	12-2	67434	68488	68190	68037	0.80	cps
Chlorine	35-1	4458833	4717040	4911063	4695645	4.83	cps
Chlorine	35-2	19310	19356	19313	19326	0.13	cps
Chromium	52-2	11061	10711	11131	10968	2.05	cps
Cobalt	59-2	6305	5935	5841	6027	4.07	cps
Copper	63-2	12109	12649	12716	12491	2.67	cps
Dysprosium	156-1	3024	2950	2930	2968	1.66	cps
Dysprosium	156-2	787	657	770	738	9.59	cps
Erbium	164-1	2180	2127	2254	2187	2.91	cps
Erbium	164-2	653	653	730	679	6.52	cps
Gadolinium	160-1	2544	2387	2500	2477	3.27	cps
Gadolinium	160-2	1053	1020	930	1001	6.37	cps
Holmium	165-1	22232716	22013516	22105769	22117334	0.50	cps
Holmium	165-2	6953785	7166652	7036796	7052411	1.52	cps
Indium	115-1	16949873	16753696	16547658	16750409	1.20	cps
Indium	115-2	1420735	1535068	1444405	1466736	4.11	cps
Iron	54-2	337737	336914	338658	337770	0.26	cps
Iron	56-2	6418603	6314055	6382229	6371629	0.83	cps
Iron	57-2	155963	155902	155696	155854	0.09	cps
Krypton	83-1	303	283	223	270	15.42	cps
Lead	206-1	80079	79773	79968	79940	0.19	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	66091	67471	66962	66841	1.04	cps
Lead	208-1	308624	312494	311344	310821	0.64	cps
Lithium	6-1	8250494	8327639	8343759	8307298	0.60	cps
Magnesium	24-2	694417	697487	694610	695505	0.25	cps
Manganese	55-2	629913	628128	629122	629054	0.14	cps
Molybdenum	94-1	2440	2264	2260	2321	4.44	cps
Molybdenum	95-1	1673	1730	1603	1669	3.80	cps
Molybdenum	96-1	2240	2080	2214	2178	3.94	cps
Molybdenum	97-1	1130	1030	1080	1080	4.63	cps
Molybdenum	98-1	2850	2754	2824	2809	1.78	cps
Neodymium	150-1	4144	4261	4211	4205	1.39	cps
Neodymium	150-2	847	937	897	893	5.05	cps
Nickel	60-2	4674	5128	4988	4930	4.71	cps
Phosphorus	31-2	513	517	540	523	2.78	cps
Potassium	39-2	346973	351928	352969	350623	0.91	cps
Rhodium	103-1	15331684	15580603	15469794	15460694	0.81	cps
Rhodium	103-2	5645302	5920254	5731731	5765762	2.44	cps
Scandium	45-1	11535129	11248021	11600461	11461203	1.64	cps
Scandium	45-2	203037	209277	208254	206856	1.62	cps
Selenium	82-1	60	23	107	63	65.95	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	10	0	13	8	89.21	cps
Silicon	28-1	66463264	62159671	60876437	63166457	4.63	cps
Silver	107-1	473	477	430	460	5.66	cps
Silver	109-1	350	360	343	351	2.39	cps
Sodium	23-2	15017374	15237524	14877516	15044138	1.21	cps
Strontium	86-1	333529	337684	337019	336077	0.66	cps
Strontium	88-1	2979911	3042590	3066771	3029757	1.48	cps
Sulfur	34-1	1048737	1044794	1053108	1048880	0.40	cps
Terbium	159-1	22857697	22513579	22866473	22745916	0.88	cps
Terbium	159-2	6637696	7014419	6706438	6786184	2.96	cps
Thallium	203-1	1050	1057	1123	1077	3.77	cps
Thallium	205-1	2514	2517	2520	2517	0.13	cps
Tin	118-1	7322	7552	7322	7399	1.80	cps
Titanium	47-1	139336	139689	139975	139667	0.23	cps
Uranium	238-1	9801	9751	9801	9784	0.30	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-10	Instrumnet Name :	P8
Client Sample ID :	A6335D	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:47:57	DataFile Name :	058AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7832	7969	7909	7903	0.87	cps
Ytterbium	172-1	720	760	807	762	5.69	cps
Ytterbium	172-2	240	223	267	243	8.98	cps
Ytterbium	176-1	2317	2460	2597	2458	5.70	cps
Ytterbium	176-2	410	443	473	442	7.16	cps
Yttrium	89-1	28862670	29036105	28859348	28919374	0.35	cps
Yttrium	89-2	1837737	1909412	1889124	1878758	1.97	cps
Zinc	66-2	7469	7008	7432	7303	3.50	cps
Zirconium	90-1	4323	3427	5058	4269	19.13	cps
Zirconium	91-1	790	780	660	743	9.73	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	21015	20254	20571	20614	1.85	cps
Antimony	121-1	403	583	470	486	18.74	cps
Arsenic	75-2	143	160	200	168	17.36	cps
Barium	135-1	18369	18326	18459	18385	0.37	cps
Barium	137-1	30996	31941	31339	31425	1.52	cps
Beryllium	9-1	529	514	534	525	1.98	cps
Bismuth	209-1	14466686	14440067	14367301	14424685	0.36	cps
Bismuth	209-2	5371964	5235896	5165645	5257835	2.00	cps
Bromine	81-1	14100	14267	14191	14186	0.59	cps
Cadmium	108-1	40	40	33	38	10.19	cps
Cadmium	106-1	8243	8283	8266	8264	0.24	cps
Cadmium	111-1	5825	5843	5853	5840	0.24	cps
Calcium	43-1	132775	132137	132698	132537	0.26	cps
Calcium	44-1	2237735	2208752	2287085	2244524	1.76	cps
Carbon	12-1	5477202	5478053	5459395	5471550	0.19	cps
Carbon	12-2	35653	36265	36021	35980	0.86	cps
Chlorine	35-1	1574266	1563057	1546884	1561402	0.88	cps
Chlorine	35-2	5801	5661	5554	5672	2.18	cps
Chromium	52-2	7555	7625	7752	7644	1.30	cps
Cobalt	59-2	1407	1480	1413	1433	2.83	cps
Copper	63-2	18075	17948	16994	17672	3.34	cps
Dysprosium	156-1	610	640	577	609	5.20	cps
Dysprosium	156-2	167	197	127	163	21.50	cps
Erbium	164-1	510	520	477	502	4.52	cps
Erbium	164-2	130	133	187	150	21.20	cps
Gadolinium	160-1	637	620	610	622	2.17	cps
Gadolinium	160-2	217	197	217	210	5.50	cps
Holmium	165-1	22283039	22226159	22194000	22234399	0.20	cps
Holmium	165-2	7083197	7065076	6882133	7010136	1.59	cps
Indium	115-1	17096447	16972068	16911566	16993360	0.55	cps
Indium	115-2	1495253	1480145	1453331	1476243	1.44	cps
Iron	54-2	72402	72586	73022	72670	0.44	cps
Iron	56-2	1333535	1328635	1328721	1330297	0.21	cps
Iron	57-2	33386	33058	33359	33268	0.55	cps
Krypton	83-1	277	273	243	264	6.94	cps
Lead	206-1	17148	17178	17332	17219	0.57	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14158	14752	14802	14571	2.46	cps
Lead	208-1	66915	68060	67615	67530	0.86	cps
Lithium	6-1	8601653	8543059	8395352	8513355	1.25	cps
Magnesium	24-2	142114	143074	142734	142640	0.34	cps
Manganese	55-2	132353	130214	129474	130680	1.14	cps
Molybdenum	94-1	837	750	660	749	11.80	cps
Molybdenum	95-1	463	447	503	471	6.18	cps
Molybdenum	96-1	620	657	653	643	3.15	cps
Molybdenum	97-1	353	270	327	317	13.44	cps
Molybdenum	98-1	690	740	843	758	10.32	cps
Neodymium	150-1	843	913	873	877	4.01	cps
Neodymium	150-2	200	177	190	189	6.20	cps
Nickel	60-2	2874	2824	2794	2830	1.43	cps
Phosphorus	31-2	203	160	223	196	16.56	cps
Potassium	39-2	82450	82058	82406	82305	0.26	cps
Rhodium	103-1	15944260	15724989	15793879	15821043	0.71	cps
Rhodium	103-2	6051262	5835278	5704899	5863813	2.98	cps
Scandium	45-1	11813297	11547830	11625414	11662180	1.17	cps
Scandium	45-2	211662	208447	202155	207421	2.33	cps
Selenium	82-1	103	3	0	36	165.16	cps
Selenium	77-2	3	7	3	4	43.40	cps
Selenium	78-2	10	0	3	4	114.60	cps
Silicon	28-1	12350210	12343903	12762285	12485466	1.92	cps
Silver	107-1	203	303	273	260	19.74	cps
Silver	109-1	133	120	140	131	7.77	cps
Sodium	23-2	3153612	3130775	3165006	3149798	0.55	cps
Strontium	86-1	68088	68118	69277	68494	0.99	cps
Strontium	88-1	583585	589319	592437	588447	0.76	cps
Sulfur	34-1	818637	818757	814840	817411	0.27	cps
Terbium	159-1	23101960	22742374	22222988	22689107	1.95	cps
Terbium	159-2	6848576	6883066	6603425	6778356	2.25	cps
Thallium	203-1	643	647	643	644	0.30	cps
Thallium	205-1	1507	1600	1423	1510	5.85	cps
Tin	118-1	3200	3290	3517	3336	4.89	cps
Titanium	47-1	28435	27643	27503	27860	1.80	cps
Uranium	238-1	1987	2000	2017	2001	0.75	cps

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LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-09LX5	Instrumnet Name :	P8
Client Sample ID :	A6335L	Dilution Factor :	5
Date & Time Acquired :	2025-02-10 17:51:12	DataFile Name :	059AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1697	1737	1617	1683	3.63	cps
Ytterbium	172-1	213	240	303	252	18.33	cps
Ytterbium	172-2	120	63	97	93	30.52	cps
Ytterbium	176-1	2177	2284	2117	2192	3.85	cps
Ytterbium	176-2	363	377	313	351	9.51	cps
Yttrium	89-1	29585733	29388829	29542592	29505718	0.35	cps
Yttrium	89-2	1915380	1894666	1876122	1895389	1.04	cps
Zinc	66-2	1910	1984	1973	1956	2.03	cps
Zirconium	90-1	1267	1433	1330	1343	6.26	cps
Zirconium	91-1	297	303	337	312	6.87	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	236383	236956	235705	236348	0.26	cps
Antimony	121-1	1969594	1925533	1954726	1949951	1.15	cps
Arsenic	75-2	14554	13934	13997	14162	2.41	cps
Barium	135-1	9172793	9230589	9124175	9175852	0.58	cps
Barium	137-1	15890318	15911669	15747897	15849961	0.56	cps
Beryllium	9-1	301608	304039	306272	303973	0.77	cps
Bismuth	209-1	14096804	14101202	14108296	14102101	0.04	cps
Bismuth	209-2	5107437	5080315	5124527	5104093	0.44	cps
Bromine	81-1	28759	33139	36200	32700	11.44	cps
Cadmium	108-1	15292	15806	15435	15511	1.71	cps
Cadmium	106-1	29351	28743	28927	29007	1.07	cps
Cadmium	111-1	236521	239850	239628	238666	0.78	cps
Calcium	43-1	643373	652655	650616	648881	0.75	cps
Calcium	44-1	10772692	11024393	10805992	10867692	1.26	cps
Carbon	12-1	8678455	8928798	9313026	8973426	3.56	cps
Carbon	12-2	62566	63951	63741	63419	1.18	cps
Chlorine	35-1	42375016	45898718	48627198	45633644	6.87	cps
Chlorine	35-2	190233	194499	195928	193553	1.53	cps
Chromium	52-2	766364	767545	761419	765109	0.42	cps
Cobalt	59-2	3819360	3722859	3726642	3756287	1.46	cps
Copper	63-2	1462942	1460398	1460370	1461237	0.10	cps
Dysprosium	156-1	2837	3134	2797	2923	6.29	cps
Dysprosium	156-2	807	807	810	808	0.24	cps
Erbium	164-1	2124	2207	2200	2177	2.13	cps
Erbium	164-2	687	653	700	680	3.53	cps
Gadolinium	160-1	2577	2550	2680	2603	2.64	cps
Gadolinium	160-2	1017	933	1003	984	4.55	cps
Holmium	165-1	21861371	22692345	22036308	22196675	1.97	cps
Holmium	165-2	6901732	7013208	7051814	6988918	1.12	cps
Indium	115-1	17014859	16744696	16424380	16727978	1.77	cps
Indium	115-2	1451796	1446569	1439568	1445978	0.42	cps
Iron	54-2	514463	511664	513074	513067	0.27	cps
Iron	56-2	9236951	9199383	9223870	9220068	0.21	cps
Iron	57-2	225692	223461	224669	224608	0.50	cps
Krypton	83-1	343	193	273	270	27.80	cps
Lead	206-1	388763	396806	399158	394909	1.38	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	333947	342464	342754	339722	1.47	cps
Lead	208-1	1543851	1584699	1593074	1573875	1.67	cps
Lithium	6-1	8145554	8366254	8352262	8288023	1.49	cps
Magnesium	24-2	692722	695522	696927	695057	0.31	cps
Manganese	55-2	1404467	1425856	1452436	1427586	1.68	cps
Molybdenum	94-1	2220	2404	2454	2359	5.21	cps
Molybdenum	95-1	1847	1937	1930	1905	2.63	cps
Molybdenum	96-1	2230	2334	2330	2298	2.56	cps
Molybdenum	97-1	1177	1160	1147	1161	1.29	cps
Molybdenum	98-1	2934	3024	2874	2944	2.57	cps
Neodymium	150-1	4931	4704	4754	4796	2.48	cps
Neodymium	150-2	883	913	870	889	2.50	cps
Nickel	60-2	1009994	1012504	1018964	1013821	0.46	cps
Phosphorus	31-2	530	520	520	523	1.10	cps
Potassium	39-2	347732	352145	350343	350073	0.63	cps
Rhodium	103-1	15529526	15447810	15516336	15497890	0.28	cps
Rhodium	103-2	5741410	5698091	5693575	5711025	0.46	cps
Scandium	45-1	11633653	11695082	11561135	11629957	0.58	cps
Scandium	45-2	206123	205770	203814	205236	0.61	cps
Selenium	82-1	5351	6095	5501	5649	6.96	cps
Selenium	77-2	63	110	73	82	29.89	cps
Selenium	78-2	403	280	260	314	24.69	cps
Silicon	28-1	59076077	59601602	59675607	59451096	0.55	cps
Silver	107-1	1093639	1115321	1106716	1105225	0.99	cps
Silver	109-1	1049932	1057916	1063332	1057060	0.64	cps
Sodium	23-2	15091111	15100176	15141807	15111032	0.18	cps
Strontium	86-1	331798	337464	336477	335246	0.90	cps
Strontium	88-1	3017592	3113513	3049132	3060079	1.60	cps
Sulfur	34-1	1052005	1053257	1042167	1049143	0.58	cps
Terbium	159-1	22598076	22522282	22502573	22540977	0.22	cps
Terbium	159-2	6724395	6685434	6714887	6708239	0.30	cps
Thallium	203-1	949372	963719	969680	960924	1.09	cps
Thallium	205-1	2422044	2391252	2426098	2413131	0.79	cps
Tin	118-1	7209	7259	7345	7271	0.95	cps
Titanium	47-1	135493	138518	137895	137302	1.16	cps
Uranium	238-1	9714	9831	9787	9777	0.60	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-11	Instrumnet Name :	P8
Client Sample ID :	A6335S	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:54:32	DataFile Name :	060AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1530927	1520732	1524025	1525228	0.34	cps
Ytterbium	172-1	673	723	790	729	8.03	cps
Ytterbium	172-2	253	250	290	264	8.39	cps
Ytterbium	176-1	2544	2560	2494	2532	1.37	cps
Ytterbium	176-2	443	427	457	442	3.40	cps
Yttrium	89-1	29618182	29057830	28964857	29213623	1.21	cps
Yttrium	89-2	1893041	1889470	1894913	1892475	0.15	cps
Zinc	66-2	305794	307066	304304	305721	0.45	cps
Zirconium	90-1	3884	3961	3807	3884	1.97	cps
Zirconium	91-1	950	973	953	959	1.32	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	69241	70202	70892	70111	1.18	cps
Antimony	121-1	2430	2447	2354	2410	2.07	cps
Arsenic	75-2	1847	1627	1923	1799	8.56	cps
Barium	135-1	183337	183998	187841	185059	1.31	cps
Barium	137-1	320887	321927	321907	321574	0.19	cps
Beryllium	9-1	950	955	936	947	1.02	cps
Bismuth	209-1	14010144	13934213	14149086	14031148	0.78	cps
Bismuth	209-2	5208734	5170533	5127366	5168878	0.79	cps
Bromine	81-1	39930	44169	45908	43336	7.10	cps
Cadmium	108-1	57	53	53	54	3.54	cps
Cadmium	106-1	8466	8002	8823	8430	4.88	cps
Cadmium	111-1	6260	6021	6465	6249	3.56	cps
Calcium	43-1	882403	895618	898132	892051	0.95	cps
Calcium	44-1	14783434	14968028	14962203	14904555	0.70	cps
Carbon	12-1	13099582	14412896	14841601	14118026	6.43	cps
Carbon	12-2	100789	102648	103554	102331	1.38	cps
Chlorine	35-1	6958367	7238233	7149460	7115353	2.01	cps
Chlorine	35-2	26244	26928	26344	26505	1.39	cps
Chromium	52-2	7826	7986	7745	7852	1.56	cps
Cobalt	59-2	23543	23302	22892	23246	1.42	cps
Copper	63-2	14534	14464	14648	14549	0.64	cps
Dysprosium	156-1	2980	3027	3187	3065	3.54	cps
Dysprosium	156-2	740	863	863	822	8.66	cps
Erbium	164-1	2610	2610	2564	2595	1.04	cps
Erbium	164-2	703	833	830	789	9.39	cps
Gadolinium	160-1	2720	2630	2814	2721	3.37	cps
Gadolinium	160-2	1073	1017	1203	1098	8.72	cps
Holmium	165-1	22028796	21993571	22093666	22038677	0.23	cps
Holmium	165-2	6956759	6936015	7026563	6973112	0.68	cps
Indium	115-1	16338750	16768509	16683278	16596846	1.37	cps
Indium	115-2	1457590	1440841	1450818	1449750	0.58	cps
Iron	54-2	1526393	1561653	1516573	1534873	1.54	cps
Iron	56-2	28296521	28352156	27961930	28203536	0.75	cps
Iron	57-2	678931	680791	688230	682650	0.72	cps
Krypton	83-1	313	293	353	320	9.55	cps
Lead	206-1	58588	59760	60979	59776	2.00	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	49467	50344	50337	50050	1.01	cps
Lead	208-1	231736	233718	234829	233427	0.67	cps
Lithium	6-1	8297768	8399985	8250922	8316225	0.92	cps
Magnesium	24-2	855167	856224	857518	856303	0.14	cps
Manganese	55-2	4403825	4422547	4396653	4407675	0.30	cps
Molybdenum	94-1	2520	2590	2674	2595	2.96	cps
Molybdenum	95-1	2010	2104	1900	2005	5.08	cps
Molybdenum	96-1	2484	2607	2434	2508	3.56	cps
Molybdenum	97-1	1350	1427	1407	1395	2.85	cps
Molybdenum	98-1	3200	3254	3360	3272	2.49	cps
Neodymium	150-1	4484	4354	4491	4443	1.73	cps
Neodymium	150-2	987	947	880	938	5.75	cps
Nickel	60-2	6101	6058	5985	6048	0.98	cps
Phosphorus	31-2	617	673	717	669	7.50	cps
Potassium	39-2	430257	432696	435085	432679	0.56	cps
Rhodium	103-1	15452102	15480830	15489155	15474029	0.13	cps
Rhodium	103-2	5723225	5764619	5876112	5787985	1.37	cps
Scandium	45-1	11437096	11597892	11492660	11509216	0.71	cps
Scandium	45-2	205460	204162	209406	206343	1.32	cps
Selenium	82-1	17	70	23	37	79.24	cps
Selenium	77-2	7	10	7	8	24.71	cps
Selenium	78-2	10	7	7	8	24.71	cps
Silicon	28-1	58617969	60420576	59395349	59477965	1.52	cps
Silver	107-1	1023	947	1033	1001	4.74	cps
Silver	109-1	897	763	703	788	12.56	cps
Sodium	23-2	18191349	18081993	18025021	18099454	0.47	cps
Strontium	86-1	470862	474823	476316	474000	0.59	cps
Strontium	88-1	4254680	4250425	4233120	4246075	0.27	cps
Sulfur	34-1	1076173	1092875	1087782	1085610	0.79	cps
Terbium	159-1	22252544	22185689	22743408	22393880	1.36	cps
Terbium	159-2	6725234	6645178	6736347	6702253	0.74	cps
Thallium	203-1	1233	1233	1100	1189	6.47	cps
Thallium	205-1	2837	2720	2907	2821	3.34	cps
Tin	118-1	4618	4891	4714	4741	2.92	cps
Titanium	47-1	80906	79770	80916	80531	0.82	cps
Uranium	238-1	9897	10248	10081	10075	1.74	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-12	Instrumnet Name :	P8
Client Sample ID :	A6336	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 17:57:41	DataFile Name :	061AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8182	8543	8716	8480	3.21	cps
Ytterbium	172-1	1070	917	937	974	8.55	cps
Ytterbium	172-2	397	393	347	379	7.38	cps
Ytterbium	176-1	2467	2760	2827	2685	7.14	cps
Ytterbium	176-2	563	470	517	517	9.03	cps
Yttrium	89-1	29159244	29168517	29111352	29146371	0.11	cps
Yttrium	89-2	1915148	1873982	1918173	1902434	1.30	cps
Zinc	66-2	11104	11335	11505	11315	1.78	cps
Zirconium	90-1	4164	3931	4031	4042	2.90	cps
Zirconium	91-1	823	877	927	876	5.90	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	290	293	297	293	1.14	cps
Antimony	121-1	313	307	327	316	3.23	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	340	423	370	378	11.17	cps
Barium	137-1	670	647	630	649	3.10	cps
Beryllium	9-1	497	512	467	492	4.65	cps
Bismuth	209-1	13982801	14205336	14308687	14165608	1.18	cps
Bismuth	209-2	5130795	5351799	5347936	5276844	2.40	cps
Bromine	81-1	10791	10721	9317	10276	8.09	cps
Cadmium	108-1	50	30	33	38	28.37	cps
Cadmium	106-1	8256	8489	8189	8311	1.90	cps
Cadmium	111-1	5777	5955	5762	5832	1.84	cps
Calcium	43-1	1507	1577	1657	1580	4.75	cps
Calcium	44-1	45549	44619	45538	45235	1.18	cps
Carbon	12-1	6176511	6743759	7194022	6704764	7.60	cps
Carbon	12-2	48239	49041	49938	49073	1.73	cps
Chlorine	35-1	1762150	1643531	1563378	1656353	6.04	cps
Chlorine	35-2	5501	5081	5141	5241	4.34	cps
Chromium	52-2	25600	24895	25660	25385	1.67	cps
Cobalt	59-2	250	240	230	240	4.17	cps
Copper	63-2	3097	3187	3230	3171	2.15	cps
Dysprosium	156-1	70	40	47	52	30.16	cps
Dysprosium	156-2	10	7	10	9	21.63	cps
Erbium	164-1	83	103	100	96	11.21	cps
Erbium	164-2	43	23	37	34	29.57	cps
Gadolinium	160-1	103	97	113	104	8.03	cps
Gadolinium	160-2	13	23	17	18	28.64	cps
Holmium	165-1	21940749	21998474	22126505	22021909	0.43	cps
Holmium	165-2	6710163	7101576	7097623	6969787	3.23	cps
Indium	115-1	16853337	16785134	17076850	16905107	0.90	cps
Indium	115-2	1420541	1556923	1503514	1493660	4.60	cps
Iron	54-2	5568	5651	5534	5584	1.08	cps
Iron	56-2	83902	82128	84615	83548	1.53	cps
Iron	57-2	2237	2260	2047	2181	5.37	cps
Krypton	83-1	277	263	317	286	9.72	cps
Lead	206-1	2350	2604	2604	2519	5.81	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1974	2070	2134	2059	3.91	cps
Lead	208-1	9488	9962	9855	9768	2.54	cps
Lithium	6-1	8494950	8394225	8377762	8422312	0.75	cps
Magnesium	24-2	2674	2670	2860	2735	3.98	cps
Manganese	55-2	2037	1947	2044	2009	2.69	cps
Molybdenum	94-1	1803	1610	1773	1729	6.02	cps
Molybdenum	95-1	2487	2354	2340	2394	3.39	cps
Molybdenum	96-1	2637	2647	2740	2675	2.13	cps
Molybdenum	97-1	1453	1407	1603	1488	6.91	cps
Molybdenum	98-1	3874	3774	3794	3814	1.39	cps
Neodymium	150-1	20	30	17	22	31.22	cps
Neodymium	150-2	3	3	10	6	69.34	cps
Nickel	60-2	2214	2124	2230	2189	2.62	cps
Phosphorus	31-2	117	110	97	108	9.45	cps
Potassium	39-2	14117	13737	13897	13917	1.37	cps
Rhodium	103-1	15452346	15767984	15735711	15652014	1.11	cps
Rhodium	103-2	5748324	5983719	5880067	5870703	2.01	cps
Scandium	45-1	11590538	11599309	11540630	11576826	0.27	cps
Scandium	45-2	200059	212201	208371	206877	3.00	cps
Selenium	82-1	20	20	-27	4	605.83	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	20	10	12	56.76	cps
Silicon	28-1	586889	598310	603183	596127	1.40	cps
Silver	107-1	427	360	307	364	16.50	cps
Silver	109-1	223	193	177	198	11.96	cps
Sodium	23-2	106152	104756	105105	105338	0.69	cps
Strontium	86-1	1120	1067	1167	1118	4.48	cps
Strontium	88-1	6905	6842	6645	6797	2.00	cps
Sulfur	34-1	774074	776153	776743	775657	0.18	cps
Terbium	159-1	21875298	22342301	22514594	22244064	1.49	cps
Terbium	159-2	6586436	6885457	6755801	6742564	2.22	cps
Thallium	203-1	647	527	560	578	10.72	cps
Thallium	205-1	1540	1233	1307	1360	11.78	cps
Tin	118-1	5768	5638	5591	5666	1.62	cps
Titanium	47-1	403	340	390	378	8.84	cps
Uranium	238-1	77	50	43	57	31.13	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-13	Instrumnet Name :	P8
Client Sample ID :	A6337	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:00:57	DataFile Name :	062AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	173	183	183	180	3.21	cps
Ytterbium	172-1	107	123	143	124	14.75	cps
Ytterbium	172-2	37	27	43	36	23.58	cps
Ytterbium	176-1	2117	2134	2084	2111	1.21	cps
Ytterbium	176-2	267	250	287	268	6.85	cps
Yttrium	89-1	29219751	29071960	28998637	29096783	0.39	cps
Yttrium	89-2	1850028	1935722	1918174	1901308	2.38	cps
Zinc	66-2	627	503	507	546	12.88	cps
Zirconium	90-1	1167	1183	1063	1138	5.71	cps
Zirconium	91-1	197	230	217	214	7.82	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	104317	103488	102854	103553	0.71	cps
Antimony	121-1	1520	1533	1663	1572	5.04	cps
Arsenic	75-2	687	777	833	766	9.66	cps
Barium	135-1	101869	103313	102245	102476	0.73	cps
Barium	137-1	178127	180531	179772	179477	0.68	cps
Beryllium	9-1	977	936	880	931	5.26	cps
Bismuth	209-1	14358448	13882439	14086484	14109124	1.69	cps
Bismuth	209-2	5174830	5149048	5129396	5151091	0.44	cps
Bromine	81-1	27844	31993	34579	31472	10.80	cps
Cadmium	108-1	50	97	23	57	65.51	cps
Cadmium	106-1	8529	8533	8303	8455	1.56	cps
Cadmium	111-1	6132	6102	6029	6088	0.87	cps
Calcium	43-1	681137	684895	686236	684089	0.39	cps
Calcium	44-1	11260735	11424737	11457402	11380958	0.93	cps
Carbon	12-1	11040071	11741841	12227313	11669742	5.11	cps
Carbon	12-2	81266	83425	83368	82686	1.49	cps
Chlorine	35-1	4060237	4537044	4734675	4443985	7.80	cps
Chlorine	35-2	18822	18986	19446	19085	1.70	cps
Chromium	52-2	12496	11915	12435	12282	2.60	cps
Cobalt	59-2	5808	5608	5785	5733	1.91	cps
Copper	63-2	11675	11872	11478	11675	1.69	cps
Dysprosium	156-1	3867	3734	3781	3794	1.78	cps
Dysprosium	156-2	1093	1080	1247	1140	8.12	cps
Erbium	164-1	3037	3064	3087	3063	0.82	cps
Erbium	164-2	987	947	997	977	2.71	cps
Gadolinium	160-1	3417	3284	3477	3393	2.92	cps
Gadolinium	160-2	1317	1183	1257	1252	5.33	cps
Holmium	165-1	22057925	22115062	21970631	22047873	0.33	cps
Holmium	165-2	7002901	6888081	7016902	6969295	1.01	cps
Indium	115-1	16898828	16650454	16555950	16701744	1.06	cps
Indium	115-2	1437487	1434810	1442269	1438189	0.26	cps
Iron	54-2	360762	360475	359141	360126	0.24	cps
Iron	56-2	6849028	6769701	6908359	6842363	1.02	cps
Iron	57-2	164687	164383	166560	165210	0.71	cps
Krypton	83-1	263	273	280	272	3.08	cps
Lead	206-1	62228	62188	62496	62304	0.27	cps

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On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	52278	52165	51693	52045	0.60	cps
Lead	208-1	242758	243284	243814	243285	0.22	cps
Lithium	6-1	8329215	8371637	8368299	8356384	0.28	cps
Magnesium	24-2	727853	724065	731913	727944	0.54	cps
Manganese	55-2	460003	457613	458980	458866	0.26	cps
Molybdenum	94-1	2287	2190	2280	2252	2.40	cps
Molybdenum	95-1	1617	1853	1707	1726	6.92	cps
Molybdenum	96-1	2044	2130	2134	2102	2.43	cps
Molybdenum	97-1	1060	1060	1143	1088	4.42	cps
Molybdenum	98-1	2667	2747	2557	2657	3.59	cps
Neodymium	150-1	5701	5605	5871	5726	2.36	cps
Neodymium	150-2	1273	1430	1250	1318	7.43	cps
Nickel	60-2	5584	5564	5685	5611	1.15	cps
Phosphorus	31-2	503	510	480	498	3.16	cps
Potassium	39-2	353197	354602	353816	353872	0.20	cps
Rhodium	103-1	15508133	15562738	15340546	15470472	0.75	cps
Rhodium	103-2	5612345	5636498	5794811	5681218	1.74	cps
Scandium	45-1	11710970	11736849	11439117	11628979	1.42	cps
Scandium	45-2	206594	205302	205383	205759	0.35	cps
Selenium	82-1	-27	57	10	13	313.27	cps
Selenium	77-2	0	10	3	4	114.60	cps
Selenium	78-2	0	13	13	9	86.60	cps
Silicon	28-1	60164669	59603174	58943622	59570489	1.03	cps
Silver	107-1	613	613	587	604	2.55	cps
Silver	109-1	410	387	413	403	3.60	cps
Sodium	23-2	15137268	15064195	15207216	15136226	0.47	cps
Strontium	86-1	356555	361915	358067	358845	0.77	cps
Strontium	88-1	3234682	3277102	3294273	3268685	0.94	cps
Sulfur	34-1	1094615	1079841	1073227	1082561	1.01	cps
Terbium	159-1	22870607	22311148	22229625	22470460	1.55	cps
Terbium	159-2	6726530	6673134	6775728	6725131	0.76	cps
Thallium	203-1	1087	1053	1040	1060	2.27	cps
Thallium	205-1	2504	2450	2550	2501	2.00	cps
Tin	118-1	5028	4988	5131	5049	1.47	cps
Titanium	47-1	173343	176228	173580	174383	0.92	cps
Uranium	238-1	13257	13167	13050	13158	0.79	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-14	Instrumnet Name :	P8
Client Sample ID :	A6338	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:04:17	DataFile Name :	063AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7866	7812	7849	7842	0.35	cps
Ytterbium	172-1	1090	1047	990	1042	4.81	cps
Ytterbium	172-2	373	430	310	371	16.18	cps
Ytterbium	176-1	2680	2744	2784	2736	1.90	cps
Ytterbium	176-2	480	520	530	510	5.19	cps
Yttrium	89-1	29291772	29652800	29210642	29385072	0.80	cps
Yttrium	89-2	1867036	1876146	1877687	1873623	0.31	cps
Zinc	66-2	5081	5084	4911	5025	1.97	cps
Zirconium	90-1	3661	3634	3704	3666	0.96	cps
Zirconium	91-1	750	677	850	759	11.47	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	10827	10751	10517	10698	1.51	cps
Antimony	121-1	1287	1417	1497	1400	7.57	cps
Arsenic	75-2	1383	1230	1353	1322	6.15	cps
Barium	135-1	72278	73686	73950	73305	1.23	cps
Barium	137-1	127366	128584	128049	128000	0.48	cps
Beryllium	9-1	517	505	557	527	5.21	cps
Bismuth	209-1	13933177	13898309	13796619	13876035	0.51	cps
Bismuth	209-2	5151216	5074322	5085834	5103791	0.81	cps
Bromine	81-1	36360	40278	43414	40017	8.83	cps
Cadmium	108-1	47	43	67	52	24.17	cps
Cadmium	106-1	8179	8102	7976	8086	1.27	cps
Cadmium	111-1	5796	5721	5620	5712	1.55	cps
Calcium	43-1	1774712	1746029	1769996	1763579	0.87	cps
Calcium	44-1	28305133	28278898	28186912	28256981	0.22	cps
Carbon	12-1	10611134	11470857	11851526	11311172	5.62	cps
Carbon	12-2	81585	81775	81209	81523	0.35	cps
Chlorine	35-1	3461614	3725082	3855378	3680691	5.45	cps
Chlorine	35-2	15068	14561	15095	14908	2.02	cps
Chromium	52-2	4074	3951	3974	3999	1.64	cps
Cobalt	59-2	13997	13623	14057	13892	1.69	cps
Copper	63-2	5434	5144	5231	5270	2.83	cps
Dysprosium	156-1	773	763	953	830	12.88	cps
Dysprosium	156-2	257	200	270	242	15.35	cps
Erbium	164-1	693	753	677	708	5.70	cps
Erbium	164-2	237	270	230	246	8.73	cps
Gadolinium	160-1	813	803	680	766	9.70	cps
Gadolinium	160-2	290	263	337	297	12.51	cps
Holmium	165-1	21481928	21516603	21958252	21652261	1.23	cps
Holmium	165-2	6960194	6957331	7004323	6973950	0.38	cps
Indium	115-1	16739328	16638199	16210607	16529378	1.70	cps
Indium	115-2	1427334	1422230	1433721	1427762	0.40	cps
Iron	54-2	718276	715178	716104	716519	0.22	cps
Iron	56-2	13645925	13536041	13549217	13577061	0.44	cps
Iron	57-2	329245	328653	328291	328730	0.15	cps
Krypton	83-1	247	273	267	262	5.29	cps
Lead	206-1	8226	8716	8109	8351	3.86	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7165	6932	6839	6979	2.41	cps
Lead	208-1	32730	33190	32420	32780	1.18	cps
Lithium	6-1	8378711	8399411	8255179	8344434	0.93	cps
Magnesium	24-2	2445145	2397978	2408594	2417239	1.02	cps
Manganese	55-2	1264325	1247199	1243536	1251686	0.89	cps
Molybdenum	94-1	1953	1893	2024	1957	3.33	cps
Molybdenum	95-1	1943	1974	1797	1905	4.96	cps
Molybdenum	96-1	2030	2257	2134	2140	5.30	cps
Molybdenum	97-1	1167	1163	1320	1217	7.36	cps
Molybdenum	98-1	3200	3034	3254	3163	3.63	cps
Neodymium	150-1	1137	1167	1050	1118	5.42	cps
Neodymium	150-2	277	190	280	249	20.50	cps
Nickel	60-2	7239	7329	7379	7315	0.97	cps
Phosphorus	31-2	767	790	637	731	11.30	cps
Potassium	39-2	482888	482257	477858	481001	0.57	cps
Rhodium	103-1	15208848	15322559	15209074	15246827	0.43	cps
Rhodium	103-2	5675845	5571650	5633400	5626965	0.93	cps
Scandium	45-1	11380817	11450949	11339415	11390394	0.49	cps
Scandium	45-2	200574	202299	203075	201983	0.63	cps
Selenium	82-1	60	40	67	56	24.98	cps
Selenium	77-2	3	7	3	4	43.40	cps
Selenium	78-2	7	13	7	9	43.25	cps
Silicon	28-1	83773392	83247307	83901660	83640787	0.41	cps
Silver	107-1	303	303	313	307	1.88	cps
Silver	109-1	180	173	153	169	8.22	cps
Sodium	23-2	10991878	10701733	10847856	10847156	1.34	cps
Strontium	86-1	671329	680593	677982	676635	0.71	cps
Strontium	88-1	6114984	6106991	6066957	6096311	0.42	cps
Sulfur	34-1	1335972	1311265	1326529	1324589	0.94	cps
Terbium	159-1	22121211	22263822	22246560	22210531	0.35	cps
Terbium	159-2	6606710	6631947	6647477	6628711	0.31	cps
Thallium	203-1	510	550	470	510	7.84	cps
Thallium	205-1	1320	1453	1243	1339	7.94	cps
Tin	118-1	3474	3447	3567	3496	1.80	cps
Titanium	47-1	18155	18616	18285	18352	1.29	cps
Uranium	238-1	11238	11442	11612	11431	1.64	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-15	Instrumnet Name :	P8
Client Sample ID :	A6339	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:07:35	DataFile Name :	064AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1760	1877	1647	1761	6.53	cps
Ytterbium	172-1	327	403	307	346	14.77	cps
Ytterbium	172-2	140	190	130	153	20.96	cps
Ytterbium	176-1	2304	2070	2194	2189	5.33	cps
Ytterbium	176-2	363	307	333	334	8.48	cps
Yttrium	89-1	29151151	28710832	28477417	28779800	1.19	cps
Yttrium	89-2	1841656	1822218	1836133	1833336	0.55	cps
Zinc	66-2	1630	1647	1680	1652	1.54	cps
Zirconium	90-1	2387	2310	2330	2342	1.70	cps
Zirconium	91-1	500	473	470	481	3.42	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	42873	42532	42559	42655	0.44	cps
Antimony	121-1	1437	1357	1297	1363	5.15	cps
Arsenic	75-2	1093	893	933	973	10.87	cps
Barium	135-1	88516	88557	88778	88617	0.16	cps
Barium	137-1	153564	154265	154885	154238	0.43	cps
Beryllium	9-1	614	644	652	637	3.19	cps
Bismuth	209-1	13764624	13727137	13758389	13750050	0.15	cps
Bismuth	209-2	5017770	5117254	5109211	5081412	1.09	cps
Bromine	81-1	32060	37427	39475	36321	10.54	cps
Cadmium	108-1	37	43	80	53	43.75	cps
Cadmium	106-1	7849	8109	8052	8004	1.71	cps
Cadmium	111-1	5599	5796	5724	5706	1.75	cps
Calcium	43-1	815842	818093	824300	819412	0.53	cps
Calcium	44-1	13767787	13685969	13853102	13768953	0.61	cps
Carbon	12-1	10230053	10881028	11294354	10801812	4.97	cps
Carbon	12-2	76364	78193	77472	77343	1.19	cps
Chlorine	35-1	4537565	5002350	5070507	4870141	5.96	cps
Chlorine	35-2	20378	20485	20181	20348	0.76	cps
Chromium	52-2	10904	10634	10811	10783	1.27	cps
Cobalt	59-2	8316	8306	8653	8425	2.34	cps
Copper	63-2	15225	15385	15809	15473	1.95	cps
Dysprosium	156-1	1887	1743	1670	1767	6.24	cps
Dysprosium	156-2	450	467	470	462	2.32	cps
Erbium	164-1	1400	1350	1373	1375	1.82	cps
Erbium	164-2	457	443	457	452	1.70	cps
Gadolinium	160-1	1543	1730	1387	1553	11.07	cps
Gadolinium	160-2	563	627	507	566	10.62	cps
Holmium	165-1	21453773	21469403	21933348	21618841	1.26	cps
Holmium	165-2	6914957	6875890	6940486	6910444	0.47	cps
Indium	115-1	16316114	16245632	16294234	16285326	0.22	cps
Indium	115-2	1423529	1420206	1426710	1423481	0.23	cps
Iron	54-2	385364	383753	386983	385367	0.42	cps
Iron	56-2	7363623	7183334	7305486	7284148	1.26	cps
Iron	57-2	178813	177730	176315	177619	0.71	cps
Krypton	83-1	257	347	317	307	14.94	cps
Lead	206-1	27706	27947	28608	28087	1.66	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	23508	23331	23809	23549	1.02	cps
Lead	208-1	108972	108986	110299	109419	0.70	cps
Lithium	6-1	8274481	8437232	8319199	8343637	1.01	cps
Magnesium	24-2	895435	890246	902211	895964	0.67	cps
Manganese	55-2	1539114	1533077	1523924	1532039	0.50	cps
Molybdenum	94-1	2260	2074	2184	2172	4.32	cps
Molybdenum	95-1	2117	2187	2227	2177	2.56	cps
Molybdenum	96-1	2444	2484	2507	2478	1.29	cps
Molybdenum	97-1	1317	1367	1390	1358	2.76	cps
Molybdenum	98-1	3527	3587	3664	3593	1.91	cps
Neodymium	150-1	2594	2517	2604	2571	1.84	cps
Neodymium	150-2	487	540	547	524	6.27	cps
Nickel	60-2	5705	5561	5504	5590	1.84	cps
Phosphorus	31-2	487	407	383	426	12.74	cps
Potassium	39-2	402038	398496	400314	400283	0.44	cps
Rhodium	103-1	15069137	15181389	15211160	15153895	0.49	cps
Rhodium	103-2	5694730	5625227	5603121	5641026	0.85	cps
Scandium	45-1	11260512	11460254	11216625	11312463	1.15	cps
Scandium	45-2	201867	203023	201532	202141	0.39	cps
Selenium	82-1	63	-27	-53	-6	-1101.49	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	7	13	8	65.47	cps
Silicon	28-1	56960377	57791061	56923186	57224875	0.86	cps
Silver	107-1	390	363	410	388	6.04	cps
Silver	109-1	230	193	203	209	9.07	cps
Sodium	23-2	16145896	16057386	16059594	16087625	0.31	cps
Strontium	86-1	372107	372812	372620	372513	0.10	cps
Strontium	88-1	3372805	3403911	3394232	3390316	0.47	cps
Sulfur	34-1	1082466	1079398	1068951	1076939	0.66	cps
Terbium	159-1	22095988	22292852	22239326	22209389	0.46	cps
Terbium	159-2	6557110	6656364	6614922	6609465	0.75	cps
Thallium	203-1	700	673	747	707	5.25	cps
Thallium	205-1	1750	1850	1783	1795	2.84	cps
Tin	118-1	5231	5344	5314	5297	1.11	cps
Titanium	47-1	71259	71155	71769	71394	0.46	cps
Uranium	238-1	7629	7596	7609	7611	0.22	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-16	Instrumnet Name :	P8
Client Sample ID :	A6340	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:10:48	DataFile Name :	065AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4014	3967	3791	3924	3.00	cps
Ytterbium	172-1	467	507	527	500	6.11	cps
Ytterbium	172-2	203	197	217	206	4.95	cps
Ytterbium	176-1	2357	2400	2337	2365	1.37	cps
Ytterbium	176-2	410	460	460	443	6.51	cps
Yttrium	89-1	28314820	28617430	28581065	28504438	0.58	cps
Yttrium	89-2	1852755	1843218	1859256	1851743	0.44	cps
Zinc	66-2	5118	5004	5094	5072	1.18	cps
Zirconium	90-1	2620	2744	2680	2681	2.30	cps
Zirconium	91-1	470	670	600	580	17.50	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6785	7048	6795	6876	2.17	cps
Antimony	121-1	957	1067	990	1004	5.62	cps
Arsenic	75-2	350	287	400	346	16.44	cps
Barium	135-1	56758	57324	57043	57042	0.50	cps
Barium	137-1	98804	98770	100046	99207	0.73	cps
Beryllium	9-1	477	471	499	482	2.99	cps
Bismuth	209-1	14190873	14354989	14071573	14205811	1.00	cps
Bismuth	209-2	5268322	5163457	5089815	5173865	1.73	cps
Bromine	81-1	28563	32785	35174	32174	10.41	cps
Cadmium	108-1	37	30	27	31	16.37	cps
Cadmium	106-1	8249	8209	7759	8072	3.37	cps
Cadmium	111-1	5772	5785	5446	5668	3.39	cps
Calcium	43-1	664775	668828	673256	668953	0.63	cps
Calcium	44-1	11046564	11157338	11221681	11141861	0.80	cps
Carbon	12-1	8701986	9363400	9622325	9229237	5.14	cps
Carbon	12-2	66593	67142	67611	67116	0.76	cps
Chlorine	35-1	4338345	4675206	4825558	4613036	5.41	cps
Chlorine	35-2	19036	18886	19216	19046	0.87	cps
Chromium	52-2	2300	2300	2367	2322	1.66	cps
Cobalt	59-2	1717	1690	1857	1755	5.10	cps
Copper	63-2	5024	5194	5201	5140	1.95	cps
Dysprosium	156-1	357	453	460	423	13.66	cps
Dysprosium	156-2	120	167	97	128	27.89	cps
Erbium	164-1	433	413	383	410	6.14	cps
Erbium	164-2	137	133	130	133	2.50	cps
Gadolinium	160-1	473	530	420	474	11.59	cps
Gadolinium	160-2	147	170	170	162	8.30	cps
Holmium	165-1	22747279	22476654	21981890	22401941	1.73	cps
Holmium	165-2	7155846	7034875	6878587	7023103	1.98	cps
Indium	115-1	16679748	16740676	16658220	16692881	0.26	cps
Indium	115-2	1474926	1453706	1446182	1458271	1.02	cps
Iron	54-2	118398	119831	119383	119204	0.61	cps
Iron	56-2	2312739	2292521	2298455	2301238	0.45	cps
Iron	57-2	54714	55280	54644	54880	0.64	cps
Krypton	83-1	233	263	270	256	7.64	cps
Lead	206-1	7309	6805	6919	7011	3.77	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5468	5568	5935	5657	4.35	cps
Lead	208-1	26824	26641	26988	26818	0.65	cps
Lithium	6-1	8397783	8306814	8303695	8336097	0.64	cps
Magnesium	24-2	674306	672993	671560	672953	0.20	cps
Manganese	55-2	277337	278595	281282	279071	0.72	cps
Molybdenum	94-1	1003	963	1007	991	2.43	cps
Molybdenum	95-1	793	787	760	780	2.26	cps
Molybdenum	96-1	867	870	900	879	2.09	cps
Molybdenum	97-1	527	583	470	527	10.76	cps
Molybdenum	98-1	1347	1167	1273	1262	7.17	cps
Neodymium	150-1	563	590	560	571	2.88	cps
Neodymium	150-2	113	127	153	131	15.53	cps
Nickel	60-2	2304	2460	2064	2276	8.78	cps
Phosphorus	31-2	150	173	160	161	7.27	cps
Potassium	39-2	330339	329300	329460	329700	0.17	cps
Rhodium	103-1	15368961	15738996	15506569	15538175	1.20	cps
Rhodium	103-2	5875499	5700278	5642064	5739281	2.12	cps
Scandium	45-1	11538680	11505782	11550188	11531550	0.20	cps
Scandium	45-2	210516	205102	201796	205805	2.14	cps
Selenium	82-1	77	43	13	44	71.29	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	7	7	7	7	0.00	cps
Silicon	28-1	42570578	41335175	41923636	41943130	1.47	cps
Silver	107-1	240	243	233	239	2.13	cps
Silver	109-1	113	110	90	104	12.08	cps
Sodium	23-2	14815391	14961754	14935249	14904131	0.52	cps
Strontium	86-1	347312	347053	347917	347427	0.13	cps
Strontium	88-1	3121406	3156350	3165979	3147912	0.75	cps
Sulfur	34-1	1063241	1037562	1040920	1047241	1.33	cps
Terbium	159-1	22546526	22768993	22239960	22518493	1.18	cps
Terbium	159-2	6822828	6739012	6681912	6747917	1.05	cps
Thallium	203-1	510	487	453	483	5.89	cps
Thallium	205-1	1163	1130	1113	1136	2.24	cps
Tin	118-1	6802	6765	6605	6724	1.56	cps
Titanium	47-1	9640	10407	10190	10079	3.92	cps
Uranium	238-1	2310	2320	2217	2282	2.50	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-17	Instrumnet Name :	P8
Client Sample ID :	A6341	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:14:06	DataFile Name :	066AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	767	807	690	754	7.86	cps
Ytterbium	172-1	310	323	253	296	12.58	cps
Ytterbium	172-2	100	100	87	96	8.05	cps
Ytterbium	176-1	2287	2157	2204	2216	2.97	cps
Ytterbium	176-2	343	310	300	318	7.14	cps
Yttrium	89-1	28813398	29591570	29198569	29201179	1.33	cps
Yttrium	89-2	1939706	1859322	1866378	1888469	2.36	cps
Zinc	66-2	1537	1557	1500	1531	1.88	cps
Zirconium	90-1	1510	1410	1493	1471	3.64	cps
Zirconium	91-1	347	310	373	343	9.26	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	44331	44207	44227	44255	0.15	cps
Antimony	121-1	5338815	5341623	5293892	5324776	0.50	cps
Arsenic	75-2	101556	101781	101952	101763	0.20	cps
Barium	135-1	2752064	2720064	2754771	2742299	0.70	cps
Barium	137-1	4708153	4668152	4687833	4688046	0.43	cps
Beryllium	9-1	427492	428385	423483	426453	0.61	cps
Bismuth	209-1	14704935	14565347	14511072	14593785	0.69	cps
Bismuth	209-2	5280976	5177117	5252691	5236928	1.03	cps
Bromine	81-1	11331	10404	9647	10461	8.07	cps
Cadmium	108-1	99737	100701	100715	100384	0.56	cps
Cadmium	106-1	142389	143376	141847	142537	0.54	cps
Cadmium	111-1	1500867	1515497	1523376	1513246	0.75	cps
Calcium	43-1	1897	2080	2127	2035	5.98	cps
Calcium	44-1	44833	43803	44054	44230	1.21	cps
Carbon	12-1	4909978	4762605	4674006	4782197	2.49	cps
Carbon	12-2	30071	29707	29316	29698	1.27	cps
Chlorine	35-1	828025	787439	745310	786925	5.26	cps
Chlorine	35-2	2757	2447	2570	2591	6.02	cps
Chromium	52-2	546800	547833	544377	546337	0.32	cps
Cobalt	59-2	856763	852069	858022	855618	0.37	cps
Copper	63-2	2433762	2424611	2441841	2433405	0.35	cps
Dysprosium	156-1	57	23	70	50	48.08	cps
Dysprosium	156-2	3	3	0	2	86.60	cps
Erbium	164-1	137	133	130	133	2.50	cps
Erbium	164-2	30	33	30	31	6.18	cps
Gadolinium	160-1	120	123	120	121	1.59	cps
Gadolinium	160-2	20	10	27	19	44.42	cps
Holmium	165-1	21982019	22402712	21874430	22086387	1.26	cps
Holmium	165-2	6950423	6906461	7148032	7001639	1.84	cps
Indium	115-1	17125584	16698776	16895355	16906572	1.26	cps
Indium	115-2	1453441	1436102	1480374	1456639	1.53	cps
Iron	54-2	163284	162509	164936	163576	0.76	cps
Iron	56-2	2799532	2810637	2788842	2799670	0.39	cps
Iron	57-2	67408	67478	67325	67404	0.11	cps
Krypton	83-1	293	273	260	276	6.09	cps
Lead	206-1	5880342	6018327	5905503	5934724	1.24	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4871588	4893374	4894444	4886469	0.26	cps
Lead	208-1	22899061	22827883	22866273	22864406	0.16	cps
Lithium	6-1	8602352	8208437	8448959	8419916	2.36	cps
Magnesium	24-2	3007	2427	2757	2730	10.66	cps
Manganese	55-2	552584	555792	550693	553023	0.47	cps
Molybdenum	94-1	1194829	1193575	1201735	1196713	0.37	cps
Molybdenum	95-1	2163373	2161427	2177049	2167283	0.39	cps
Molybdenum	96-1	2370519	2367739	2316762	2351673	1.29	cps
Molybdenum	97-1	1313644	1310691	1303259	1309198	0.41	cps
Molybdenum	98-1	3619313	3568330	3514576	3567407	1.47	cps
Neodymium	150-1	137	123	173	144	17.92	cps
Neodymium	150-2	3	10	3	6	69.34	cps
Nickel	60-2	515284	513688	513576	514183	0.19	cps
Phosphorus	31-2	103	83	43	77	39.85	cps
Potassium	39-2	11752	11458	11748	11653	1.45	cps
Rhodium	103-1	16282040	15840646	15624242	15915643	2.11	cps
Rhodium	103-2	5767682	5626154	5855423	5749753	2.01	cps
Scandium	45-1	11611365	11402543	11517558	11510489	0.91	cps
Scandium	45-2	203996	199830	208544	204123	2.14	cps
Selenium	82-1	32913	32418	33838	33056	2.18	cps
Selenium	77-2	500	500	497	499	0.39	cps
Selenium	78-2	1703	1627	1670	1667	2.31	cps
Silicon	28-1	536883	531146	530692	532907	0.65	cps
Silver	107-1	8552349	8488267	8707456	8582691	1.31	cps
Silver	109-1	8186745	8046937	8269049	8167577	1.37	cps
Sodium	23-2	88254	89231	87460	88315	1.00	cps
Strontium	86-1	169527	169926	171032	170162	0.46	cps
Strontium	88-1	1527333	1535142	1557759	1540078	1.03	cps
Sulfur	34-1	752515	742429	737680	744208	1.02	cps
Terbium	159-1	22742156	22771821	22580705	22698227	0.45	cps
Terbium	159-2	6754742	6545723	6803356	6701274	2.04	cps
Thallium	203-1	7125000	7191827	7127990	7148272	0.53	cps
Thallium	205-1	16822336	17099612	16946801	16956249	0.82	cps
Tin	118-1	3267	3130	3264	3220	2.42	cps
Titanium	47-1	603	623	757	661	12.61	cps
Uranium	238-1	13	20	27	20	33.35	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-01DLX2	Instrumnet Name :	P8
Client Sample ID :	A6311	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:17:21	DataFile Name :	067AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2405074	2408368	2363484	2392309	1.05	cps
Ytterbium	172-1	163	130	133	142	12.91	cps
Ytterbium	172-2	20	53	30	34	49.66	cps
Ytterbium	176-1	2040	2107	2164	2104	2.94	cps
Ytterbium	176-2	337	283	340	320	9.94	cps
Yttrium	89-1	29224161	28880335	29406852	29170450	0.92	cps
Yttrium	89-2	1872643	1822164	1879441	1858083	1.68	cps
Zinc	66-2	288421	288666	287425	288170	0.23	cps
Zirconium	90-1	1010	970	1100	1027	6.49	cps
Zirconium	91-1	1333	1303	1227	1288	4.27	cps

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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	121159	122020	121606	121595	0.35	cps
Antimony	121-1	7479423	7510130	7491507	7493687	0.21	cps
Arsenic	75-2	51775	52343	51661	51926	0.70	cps
Barium	135-1	1262463	1274990	1265952	1267802	0.51	cps
Barium	137-1	2298250	2298613	2280673	2292512	0.45	cps
Beryllium	9-1	447282	452848	452989	451040	0.72	cps
Bismuth	209-1	14686758	14521841	14453533	14554044	0.82	cps
Bismuth	209-2	5266193	5313185	5290261	5289879	0.44	cps
Bromine	81-1	7112	7005	6915	7011	1.40	cps
Cadmium	108-1	43502	43171	43763	43478	0.68	cps
Cadmium	106-1	63770	66171	64811	64917	1.85	cps
Cadmium	111-1	642716	644758	645945	644473	0.25	cps
Calcium	43-1	1917	2020	2100	2012	4.57	cps
Calcium	44-1	42275	42850	42389	42505	0.72	cps
Carbon	12-1	4678417	4673032	4683348	4678265	0.11	cps
Carbon	12-2	30298	30559	30057	30305	0.83	cps
Chlorine	35-1	529380	522966	514209	522185	1.46	cps
Chlorine	35-2	1847	1770	1853	1823	2.54	cps
Chromium	52-2	659255	662238	648879	656790	1.07	cps
Cobalt	59-2	2861724	2868794	2827382	2852633	0.78	cps
Copper	63-2	646067	639172	641823	642354	0.54	cps
Dysprosium	156-1	40	37	47	41	12.39	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	127	153	133	138	10.07	cps
Erbium	164-2	13	27	40	27	50.01	cps
Gadolinium	160-1	107	107	153	122	22.05	cps
Gadolinium	160-2	27	17	10	18	47.19	cps
Holmium	165-1	22597778	22201714	22008025	22269172	1.35	cps
Holmium	165-2	7104476	7049320	7009421	7054406	0.68	cps
Indium	115-1	17143472	16890836	16886448	16973585	0.87	cps
Indium	115-2	1450858	1468578	1461659	1460365	0.61	cps
Iron	54-2	236181	235582	234995	235586	0.25	cps
Iron	56-2	4065953	4105975	4066893	4079607	0.56	cps
Iron	57-2	98131	99011	98578	98573	0.45	cps
Krypton	83-1	307	240	317	288	14.48	cps
Lead	206-1	7661788	7594547	7728675	7661670	0.88	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6355379	6344953	6413890	6371408	0.58	cps
Lead	208-1	29640674	29641597	29714789	29665686	0.14	cps
Lithium	6-1	8512854	8592158	8425901	8510305	0.98	cps
Magnesium	24-2	2790	2807	2737	2778	1.32	cps
Manganese	55-2	477784	474316	471844	474648	0.63	cps
Molybdenum	94-1	1482754	1509121	1512802	1501559	1.09	cps
Molybdenum	95-1	2641351	2669946	2667721	2659673	0.60	cps
Molybdenum	96-1	2869497	2932745	2835151	2879131	1.72	cps
Molybdenum	97-1	1632368	1664062	1605820	1634084	1.78	cps
Molybdenum	98-1	4233352	4282653	4323904	4279970	1.06	cps
Neodymium	150-1	80	97	107	94	14.27	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	1840148	1875001	1846544	1853898	1.00	cps
Phosphorus	31-2	70	47	53	57	21.21	cps
Potassium	39-2	12189	12095	12018	12101	0.70	cps
Rhodium	103-1	16071509	15832026	15811415	15904983	0.91	cps
Rhodium	103-2	5854181	5755115	5794269	5801188	0.86	cps
Scandium	45-1	11692177	11723755	11540925	11652286	0.84	cps
Scandium	45-2	205497	206009	203502	205003	0.65	cps
Selenium	82-1	90525	92971	91390	91629	1.35	cps
Selenium	77-2	1490	1307	1467	1421	7.02	cps
Selenium	78-2	4671	4714	4624	4670	0.96	cps
Silicon	28-1	523965	524696	523584	524082	0.11	cps
Silver	107-1	11199802	11265969	11100315	11188695	0.75	cps
Silver	109-1	10580447	10578371	10587894	10582237	0.05	cps
Sodium	23-2	87124	88707	88486	88106	0.97	cps
Strontium	86-1	212315	216344	217661	215440	1.29	cps
Strontium	88-1	1955945	2002800	1943987	1967577	1.58	cps
Sulfur	34-1	736541	730965	733068	733525	0.38	cps
Terbium	159-1	22636898	22710625	22613435	22653652	0.22	cps
Terbium	159-2	6722533	6749414	6634429	6702125	0.90	cps
Thallium	203-1	1709524	1668931	1742230	1706895	2.15	cps
Thallium	205-1	4182837	4089284	4110566	4127562	1.19	cps
Tin	118-1	3464	3150	3434	3349	5.16	cps
Titanium	47-1	693	700	697	697	0.48	cps
Uranium	238-1	37	27	33	32	15.80	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	Q1245-02DLX2	Instrumnet Name :	P8
Client Sample ID :	A6312	Dilution Factor :	2
Date & Time Acquired :	2025-02-10 18:20:28	DataFile Name :	068AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	118075	118314	118277	118222	0.11	cps
Ytterbium	172-1	130	113	137	127	9.49	cps
Ytterbium	172-2	53	40	50	48	14.52	cps
Ytterbium	176-1	2180	2074	2090	2115	2.71	cps
Ytterbium	176-2	287	357	373	339	13.57	cps
Yttrium	89-1	29800956	29127619	28746800	29225125	1.83	cps
Yttrium	89-2	1884380	1852821	1839544	1858915	1.24	cps
Zinc	66-2	358800	357613	358046	358153	0.17	cps
Zirconium	90-1	987	1067	1023	1026	3.91	cps
Zirconium	91-1	730	710	723	721	1.41	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3472119	3467331	3491057	3476836	0.36	cps
Antimony	121-1	8352566	8579919	8376680	8436388	1.48	cps
Arsenic	75-2	153688	155423	154829	154647	0.57	cps
Barium	135-1	10439937	10471703	10380580	10430740	0.44	cps
Barium	137-1	18217013	17925528	17761508	17968017	1.28	cps
Beryllium	9-1	2798234	2799789	2793570	2797198	0.12	cps
Bismuth	209-1	12409108	12597752	12511248	12506036	0.76	cps
Bismuth	209-2	4646388	4621532	4592024	4619981	0.59	cps
Bromine	81-1	6138	5825	6271	6078	3.77	cps
Cadmium	108-1	165315	167268	166985	166523	0.63	cps
Cadmium	106-1	236979	239057	238473	238169	0.45	cps
Cadmium	111-1	2100554	2102393	2070535	2091161	0.86	cps
Calcium	43-1	13802412	13840141	13901657	13848070	0.36	cps
Calcium	44-1	227922663	224925897	225159470	226002677	0.74	cps
Carbon	12-1	4726016	4875578	5005556	4869050	2.87	cps
Carbon	12-2	39787	40165	39302	39751	1.09	cps
Chlorine	35-1	434446	430403	421873	428907	1.50	cps
Chlorine	35-2	1750	1587	1663	1667	4.90	cps
Chromium	52-2	1757359	1771355	1803389	1777368	1.33	cps
Cobalt	59-2	3262641	3284082	3311288	3286004	0.74	cps
Copper	63-2	24496272	24653972	24475351	24541865	0.40	cps
Dysprosium	156-1	490	490	503	494	1.56	cps
Dysprosium	156-2	110	107	133	117	12.46	cps
Erbium	164-1	490	383	443	439	12.18	cps
Erbium	164-2	157	157	153	156	1.24	cps
Gadolinium	160-1	447	420	430	432	3.12	cps
Gadolinium	160-2	197	133	170	167	19.08	cps
Holmium	165-1	21408262	20947255	21141881	21165799	1.09	cps
Holmium	165-2	6752315	6750117	6733492	6745308	0.15	cps
Indium	115-1	15269746	15132774	15300170	15234230	0.59	cps
Indium	115-2	1322034	1321976	1332816	1325609	0.47	cps
Iron	54-2	17562055	17834632	18060016	17818901	1.40	cps
Iron	56-2	326345222	329445175	329012162	328267520	0.51	cps
Iron	57-2	8144716	8312030	8161629	8206125	1.12	cps
Krypton	83-1	340	297	310	316	7.03	cps
Lead	206-1	34411038	34945984	34421429	34592817	0.88	cps

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29741438	29737275	30095575	29858096	0.69	cps
Lead	208-1	137259678	138095950	138625477	137993702	0.50	cps
Lithium	6-1	7797025	7764890	7638436	7733450	1.08	cps
Magnesium	24-2	62843471	61942859	62418624	62401651	0.72	cps
Manganese	55-2	6981977	7138954	7143567	7088166	1.30	cps
Molybdenum	94-1	29975795	29636972	29365400	29659389	1.03	cps
Molybdenum	95-1	42886169	42954384	42705470	42848674	0.30	cps
Molybdenum	96-1	47195506	47146191	47138294	47159997	0.07	cps
Molybdenum	97-1	26730390	26545687	26345106	26540395	0.73	cps
Molybdenum	98-1	70039666	69268251	69603829	69637248	0.56	cps
Neodymium	150-1	823	837	840	833	1.06	cps
Neodymium	150-2	57	50	57	54	7.07	cps
Nickel	60-2	845271	855572	851335	850726	0.61	cps
Phosphorus	31-2	31611	31411	31751	31591	0.54	cps
Potassium	39-2	16590882	16529774	16626760	16582472	0.30	cps
Rhodium	103-1	13748069	13565032	13572331	13628477	0.76	cps
Rhodium	103-2	5088293	5140381	5111502	5113392	0.51	cps
Scandium	45-1	10982919	10939313	10860537	10927590	0.57	cps
Scandium	45-2	198433	198265	200272	198990	0.56	cps
Selenium	82-1	120336	122602	122189	121709	0.99	cps
Selenium	77-2	1880	1883	1997	1920	3.46	cps
Selenium	78-2	6675	6555	6331	6520	2.67	cps
Silicon	28-1	7255438	7264634	7374761	7298278	0.91	cps
Silver	107-1	10227067	10335182	10149075	10237108	0.91	cps
Silver	109-1	9776289	9718803	9652559	9715884	0.64	cps
Sodium	23-2	124354508	125562155	124054275	124656979	0.64	cps
Strontium	86-1	2729278	2770348	2741584	2747070	0.77	cps
Strontium	88-1	23555218	23845783	23506740	23635914	0.78	cps
Sulfur	34-1	1535511	1503356	1494720	1511196	1.42	cps
Terbium	159-1	21501606	21508805	21623202	21544537	0.32	cps
Terbium	159-2	6351722	6444024	6548771	6448172	1.53	cps
Thallium	203-1	8516474	8595851	8596398	8569574	0.54	cps
Thallium	205-1	20126966	20494878	20185484	20269109	0.98	cps
Tin	118-1	6709210	6848063	6811877	6789717	1.06	cps
Titanium	47-1	13038756	13096969	13010152	13048626	0.34	cps
Uranium	238-1	29396273	29378094	29415439	29396602	0.06	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCV003	Instrumnet Name :	P8
Client Sample ID :	CCV003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:23:47	DataFile Name :	069CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1396751	1424120	1431699	1417524	1.30	cps
Ytterbium	172-1	557	557	623	579	6.65	cps
Ytterbium	172-2	263	193	240	232	15.35	cps
Ytterbium	176-1	43037	43585	43775	43466	0.88	cps
Ytterbium	176-2	13537	13397	13227	13387	1.16	cps
Yttrium	89-1	27684225	27157692	27331224	27391047	0.98	cps
Yttrium	89-2	1832804	1788650	1850489	1823981	1.75	cps
Zinc	66-2	2686234	2701206	2682629	2690023	0.37	cps
Zirconium	90-1	15041449	14827136	14927563	14932049	0.72	cps
Zirconium	91-1	3347647	3374662	3336305	3352872	0.59	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	117	103	200	140	37.42	cps
Antimony	121-1	2860	2880	2547	2763	6.77	cps
Arsenic	75-2	3	7	10	7	50.03	cps
Barium	135-1	447	497	417	453	8.91	cps
Barium	137-1	1023	857	770	883	14.58	cps
Beryllium	9-1	1376	1256	1292	1308	4.70	cps
Bismuth	209-1	14637486	14223473	14183680	14348213	1.75	cps
Bismuth	209-2	5229707	5378430	5255805	5287980	1.50	cps
Bromine	81-1	5878	6048	6081	6002	1.82	cps
Cadmium	108-1	43	77	43	54	35.36	cps
Cadmium	106-1	8052	8213	8243	8169	1.25	cps
Cadmium	111-1	5780	5835	5846	5820	0.61	cps
Calcium	43-1	800	650	570	673	17.34	cps
Calcium	44-1	31889	29667	29454	30337	4.45	cps
Carbon	12-1	3507727	3478901	3386396	3457674	1.83	cps
Carbon	12-2	22077	21846	21593	21839	1.11	cps
Chlorine	35-1	380559	373446	371997	375334	1.22	cps
Chlorine	35-2	1420	1353	1263	1346	5.84	cps
Chromium	52-2	743	830	773	782	5.63	cps
Cobalt	59-2	220	200	273	231	16.40	cps
Copper	63-2	3457	3200	3130	3263	5.27	cps
Dysprosium	156-1	33	13	17	21	50.75	cps
Dysprosium	156-2	3	0	0	1	173.21	cps
Erbium	164-1	123	73	103	100	25.17	cps
Erbium	164-2	30	7	33	23	62.26	cps
Gadolinium	160-1	87	113	133	111	21.07	cps
Gadolinium	160-2	23	23	13	20	28.87	cps
Holmium	165-1	21957224	21896212	22118974	21990803	0.52	cps
Holmium	165-2	6975249	7026360	6936366	6979325	0.65	cps
Indium	115-1	17158559	16623272	16762948	16848260	1.65	cps
Indium	115-2	1471470	1482081	1487673	1480408	0.56	cps
Iron	54-2	773	823	750	782	4.79	cps
Iron	56-2	11261	11585	11195	11347	1.84	cps
Iron	57-2	347	243	337	309	18.45	cps
Krypton	83-1	293	257	287	279	7.00	cps
Lead	206-1	4964	4611	4184	4586	8.52	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4327	3807	3697	3944	8.53	cps
Lead	208-1	20407	18242	16935	18528	9.46	cps
Lithium	6-1	8509953	8559857	8511268	8527026	0.33	cps
Magnesium	24-2	2964	3007	2860	2944	2.56	cps
Manganese	55-2	327	307	340	324	5.17	cps
Molybdenum	94-1	1543	1460	1263	1422	10.11	cps
Molybdenum	95-1	1833	1453	1563	1617	12.10	cps
Molybdenum	96-1	2150	1857	1723	1910	11.43	cps
Molybdenum	97-1	1400	870	830	1033	30.79	cps
Molybdenum	98-1	3194	2624	2324	2714	16.29	cps
Neodymium	150-1	23	0	3	9	142.00	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	933	887	863	894	3.98	cps
Phosphorus	31-2	87	60	73	73	18.18	cps
Potassium	39-2	13196	13720	13233	13383	2.19	cps
Rhodium	103-1	16015636	15865133	15896781	15925850	0.50	cps
Rhodium	103-2	5898060	5986309	5862670	5915680	1.08	cps
Scandium	45-1	11536153	11658606	11670297	11621686	0.64	cps
Scandium	45-2	205750	208716	207239	207235	0.72	cps
Selenium	82-1	13	113	17	48	118.88	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	10	7	8	24.71	cps
Silicon	28-1	573387	566678	561613	567226	1.04	cps
Silver	107-1	1593	1480	1447	1507	5.10	cps
Silver	109-1	1540	1220	1110	1290	17.32	cps
Sodium	23-2	97187	96362	96231	96593	0.54	cps
Strontium	86-1	617	597	653	622	4.62	cps
Strontium	88-1	1863	1750	1803	1806	3.14	cps
Sulfur	34-1	754340	756057	762499	757632	0.57	cps
Terbium	159-1	22771930	22399272	22453052	22541418	0.89	cps
Terbium	159-2	6843284	6788849	6860091	6830741	0.55	cps
Thallium	203-1	1387	1213	1167	1256	9.23	cps
Thallium	205-1	3127	2997	2700	2941	7.44	cps
Tin	118-1	3844	3597	3597	3679	3.87	cps
Titanium	47-1	1157	1020	963	1047	9.50	cps
Uranium	238-1	927	677	570	724	25.27	cps

Reviewed By:kareem
On:2/11/2025 5:08:19 PM
Inst Id :P8

LB Number :	LB134662	Operator :	Jaswal
Lab Sample ID :	CCB003	Instrumnet Name :	P8
Client Sample ID :	CCB003	Dilution Factor :	1
Date & Time Acquired :	2025-02-10 18:26:35	DataFile Name :	070CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	43	27	30	33	26.45	cps
Ytterbium	172-1	147	133	133	138	5.59	cps
Ytterbium	172-2	40	47	53	47	14.28	cps
Ytterbium	176-1	2070	2030	2234	2111	5.10	cps
Ytterbium	176-2	250	287	293	277	8.43	cps
Yttrium	89-1	29370225	29584020	29663082	29539109	0.51	cps
Yttrium	89-2	1896071	1926557	1932685	1918438	1.02	cps
Zinc	66-2	377	257	353	329	19.35	cps
Zirconium	90-1	1643	1477	1453	1525	6.80	cps
Zirconium	91-1	383	313	350	349	10.04	cps

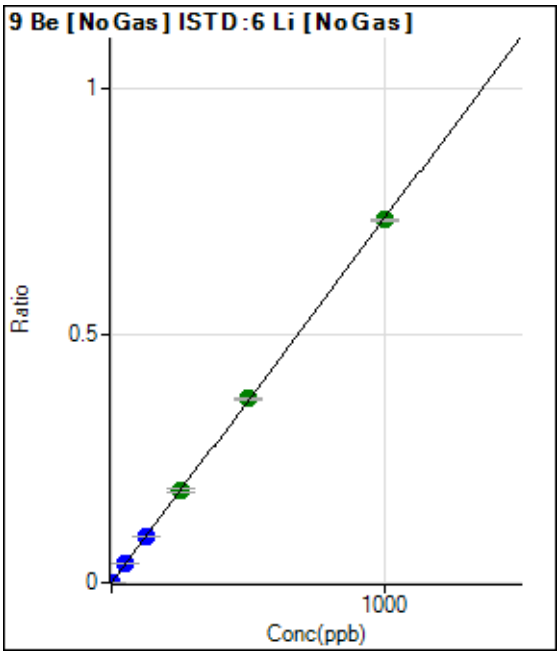
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On:2/12/2025 11:10:40 AM
Inst Id :P8

Calibration for 055AREF.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021125 MS.b\
Analysis File: P8021125 MS.batch.bin
DA Date-Time: 2025-02-11 16:41:16
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-02-11 12:05:13
2	005CALS.d	S02	2025-02-11 12:08:35
3	006CALB.d	S03	2025-02-11 12:11:58
4	007CALS.d	S04	2025-02-11 12:15:02
5	008CALS.d	S05	2025-02-11 12:18:01
6	009CALS.d	S06	2025-02-11 12:20:51
7	010CALS.d	S07	2025-02-11 12:23:38
8	011CALS.d	S08	2025-02-11 12:26:23

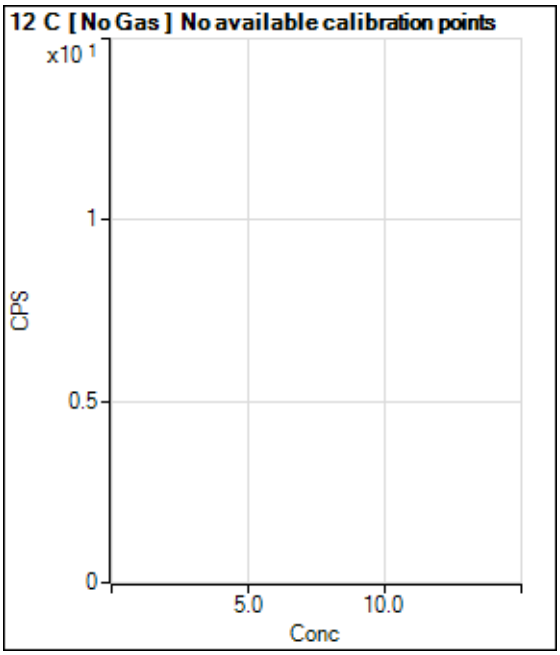
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On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	361.63	0.0000	P	1.2
2	☐	1.000	1.074	6278.90	0.0008	P	1.1
3	☐	50.000	51.377	280845.21	0.0379	P	2.5
4	☐	125.000	125.718	687140.12	0.0927	P	2.1
5	☐	250.000	253.365	1368162.02	0.1867	A	2.4
6	☐	500.000	505.733	2695154.28	0.3726	A	0.9
7	☐	1000.000	996.134	5226624.33	0.7338	A	0.3
8	☐			1942.39	0.0003	P	10.4

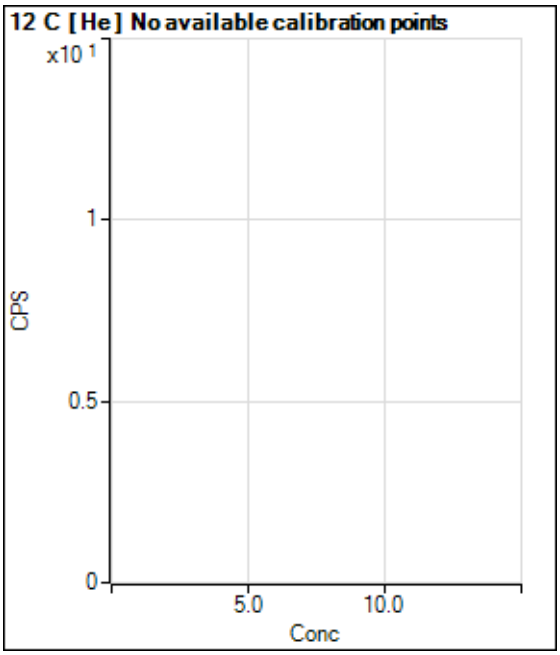
y = 7.3661E-004 * x + 4.8717E-005
R = 1.0000
DL = 0.00238
BEC = 0.06614

Weight: <None>
Min Conc: 0

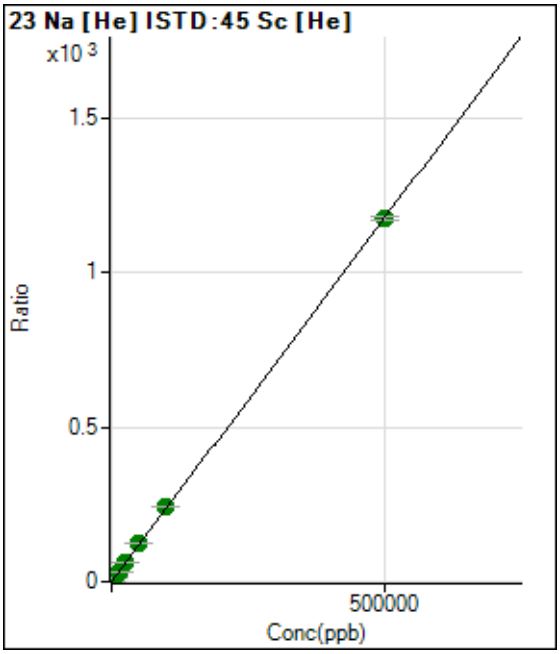


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3360557.45		A	1.2
2	☐			3369094.92		A	0.1
3	☐			3438303.32		A	0.4
4	☐			3592506.75		A	0.6
5	☐			3714614.04		A	1.3
6	☐			3972299.70		A	1.7
7	☐			4509665.94		A	3.1
8	☐			4069612.27		A	2.3

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22745.42		P	1.3
2	☐			22698.71		P	1.5
3	☐			23193.93		P	0.5
4	☐			24332.42		P	1.1
5	☐			26180.01		P	1.6
6	☐			28867.23		P	1.0
7	☐			34647.49		P	2.1
8	☐			38443.49		P	0.4

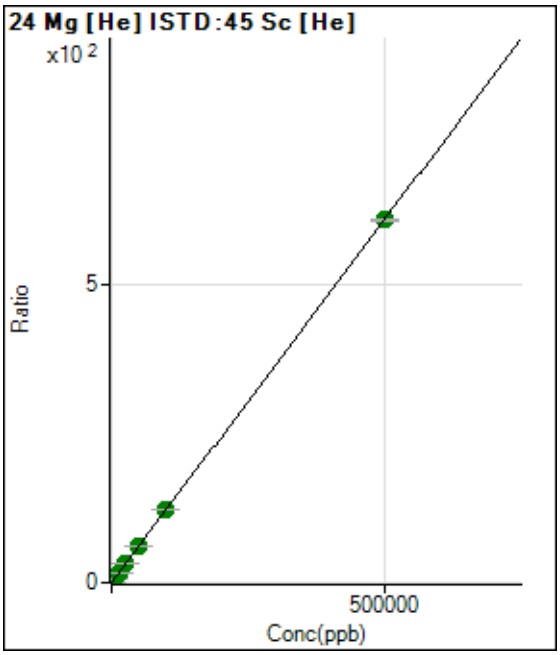


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56834.43	0.3075	P	1.5
2	☐	500.000	541.926	296212.48	1.5827	P	0.9
3	☐	5000.000	5395.509	2384490.40	13.0036	A	1.7
4	☐	12500.000	13008.194	5714264.08	30.9169	A	0.1
5	☐	25000.000	26266.120	11455199.41	62.1139	A	2.8
6	☐	50000.000	52959.770	22737010.22	124.9263	A	0.9
7	☐	100000.00	103433.66	44802141.00	243.6956	A	0.1
8	☐	500000.00	498937.28	205456994.7	1,174.348	A	1.2

y = 0.0024 * x + 0.3075
R = 1.0000
DL = 5.923
BEC = 130.7

Weight: <None>
Min Conc: 0

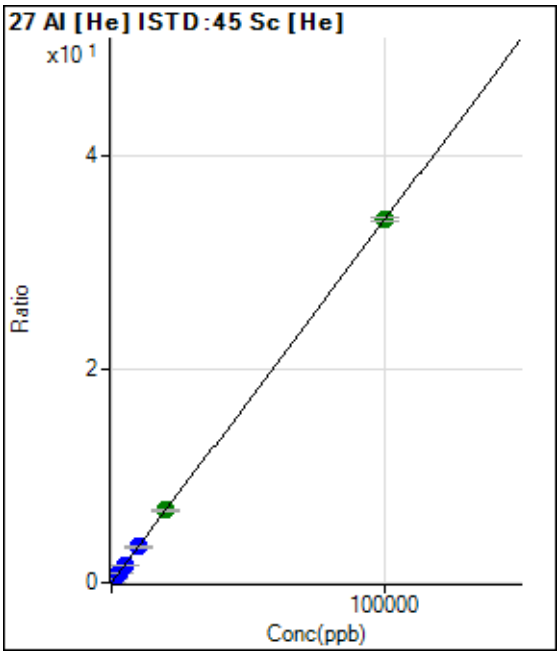
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On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4133.96	0.0224	P	4.3
2	☐	500.000	535.768	126672.02	0.6768	P	0.5
3	☐	5000.000	5346.022	1201561.62	6.5525	A	1.4
4	☐	12500.000	12958.730	2929735.09	15.8514	A	0.7
5	☐	25000.000	25946.260	5849317.27	31.7157	A	2.8
6	☐	50000.000	51175.425	11381502.05	62.5332	A	0.4
7	☐	100000.00	100144.98	22493654.67	122.3495	A	0.6
8	☐	500000.00	499791.18	106819078.4	610.5175	A	0.3

y = 0.0012 * x + 0.0224
R = 1.0000
DL = 2.376
BEC = 18.3

Weight: <None>
Min Conc: 0

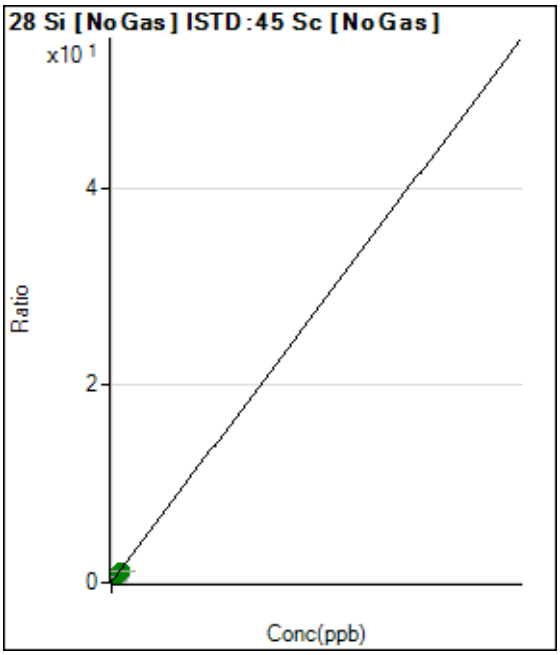


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0006	P	11.1
2	☐	20.000	18.890	1317.85	0.0070	P	4.6
3	☐	1000.000	1002.990	62685.38	0.3418	P	0.2
4	☐	2500.000	2460.172	154800.30	0.8376	P	0.8
5	☐	5000.000	4942.658	310252.35	1.6821	P	2.1
6	☐	10000.000	9829.508	608743.34	3.3446	P	0.5
7	☐	20000.000	19944.046	1247461.68	6.7856	A	1.6
8	☐	100000.00	100032.07	5954172.07	34.0317	A	0.9

y = 3.4020E-004 * x + 6.1331E-004
R = 1.0000
DL = 0.5992
BEC = 1.803

Weight: <None>
Min Conc: 0

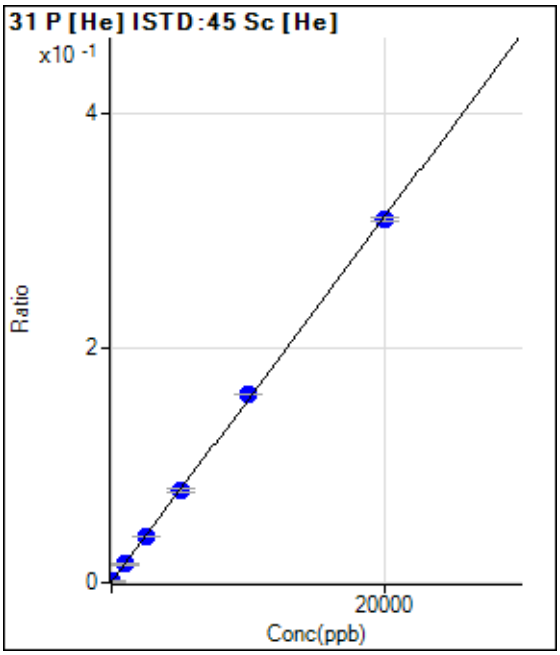
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513265.19	0.0490	P	0.6
2	☐	10.000	6.376	590083.28	0.0567	P	0.4
3	☐	50.000	51.081	1168455.04	0.1105	A	0.8
4	☐	125.000	128.798	2134505.19	0.2041	A	1.2
5	☐	250.000	253.013	3706115.15	0.3536	A	2.6
6	☐	500.000	512.571	6836667.26	0.6661	A	2.9
7	☐	1000.000	992.469	12718038.98	1.2438	A	1.5
8	☐			670331.67	0.0697	P	2.2

y = 0.0012 * x + 0.0490
R = 0.9999
DL = 0.7172
BEC = 40.75

Weight: <None>
Min Conc: 0

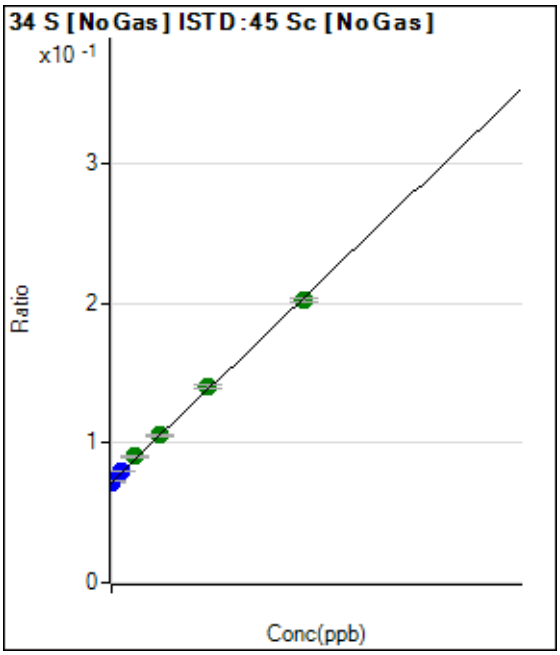


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.458	86.67	0.0005	P	16.3
2	☐	0.000	11.458	154.45	0.0008	P	18.3
3	☐	1000.000	982.833	2924.77	0.0160	P	5.7
4	☐	2500.000	2513.659	7354.15	0.0398	P	0.4
5	☐	5000.000	4977.904	14412.81	0.0782	P	3.8
6	☐	10000.000	10324.689	29379.74	0.1614	P	0.3
7	☐	20000.000	19842.330	56922.18	0.3096	P	0.9
8	☐			88.89	0.0005	P	18.3

y = 1.5572E-005 * x + 6.4699E-004
R = 0.9998
DL = 21.95
BEC = 41.55

Weight: <None>
Min Conc: 0

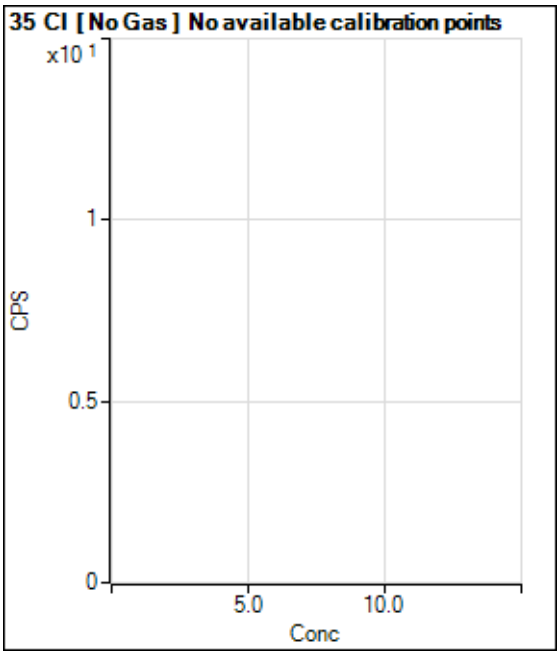
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-122.073	746544.49	0.0713	P	0.2
2	☐	0.000	122.073	758825.73	0.0729	P	0.2
3	☐	1000.000	1186.137	844998.56	0.0799	P	0.6
4	☐	2500.000	2786.306	946100.82	0.0905	A	1.5
5	☐	5000.000	5051.511	1104109.44	0.1053	A	2.0
6	☐	10000.000	10299.215	1435460.71	0.1398	A	1.9
7	☐	20000.000	19792.420	2067919.90	0.2022	A	1.3
8	☐			682747.53	0.0710	P	1.3

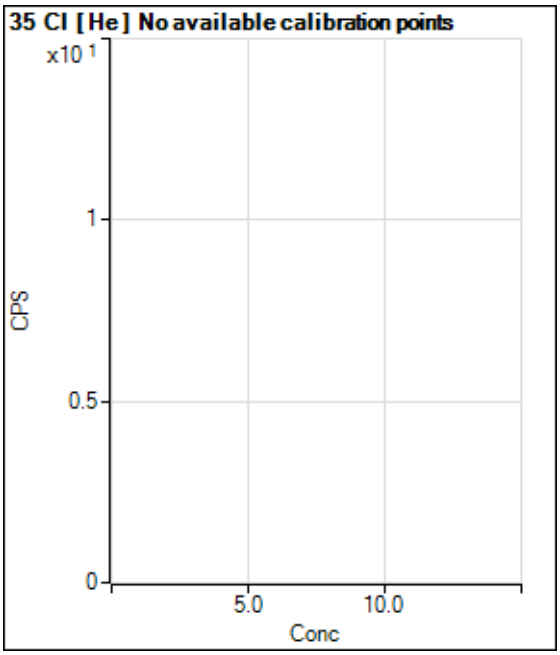
y = 6.5727E-006 * x + 0.0721
R = 0.9997
DL = 52.29
BEC = 1.098E+04

Weight: <None>
Min Conc: 0

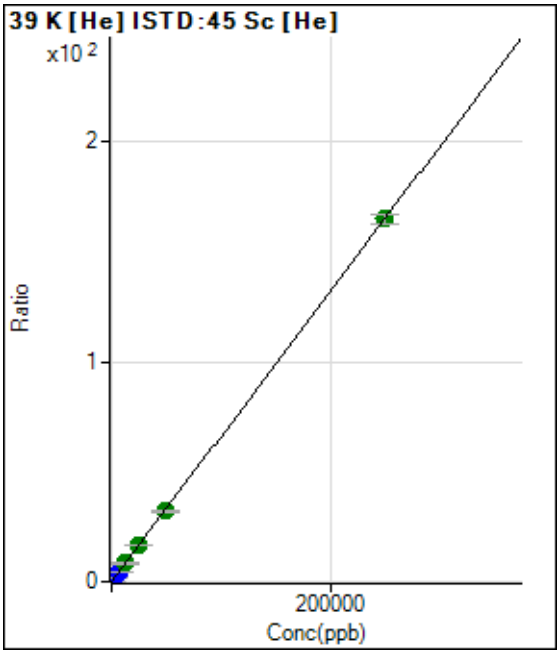


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			127507.58		P	0.4
2	☐			127300.34		P	1.0
3	☐			126941.70		P	0.1
4	☐			128789.58		P	0.7
5	☐			132751.66		P	1.2
6	☐			143977.44		P	1.3
7	☐			165127.62		P	1.8
8	☐			125792.96		P	1.6

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			496.68		P	4.4
2	☐			426.68		P	6.8
3	☐			451.12		P	10.6
4	☐			468.90		P	15.1
5	☐			474.46		P	5.4
6	☐			556.68		P	2.2
7	☐			630.02		P	7.4
8	☐			472.23		P	12.0

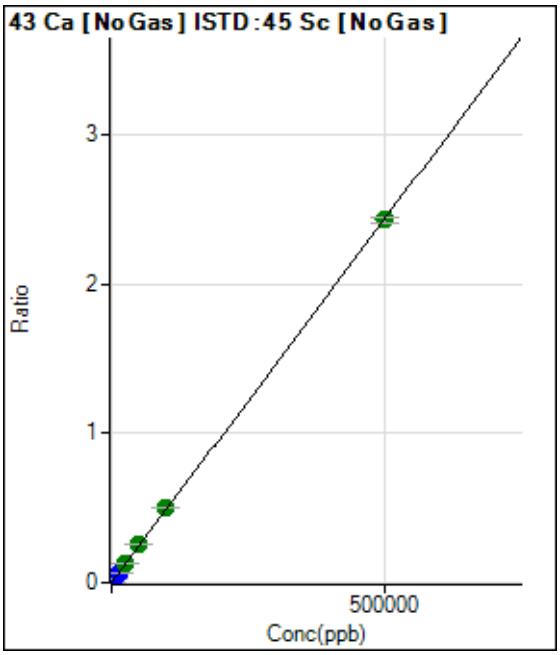


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9404.26	0.0509	P	2.0
2	☐	500.000	511.948	72701.71	0.3885	P	0.9
3	☐	2500.000	2515.987	313557.84	1.7099	P	0.8
4	☐	6250.000	6130.526	756536.93	4.0933	P	0.6
5	☐	12500.000	12535.253	1533826.82	8.3166	A	2.5
6	☐	25000.000	25173.078	3030279.68	16.6499	A	1.2
7	☐	50000.000	48434.432	5880779.98	31.9883	A	0.9
8	☐	250000.00	250296.84	28881381.23	165.0952	A	2.5

y = 6.5939E-004 * x + 0.0509
R = 1.0000
DL = 4.646
BEC = 77.16

Weight: <None>
Min Conc: 0

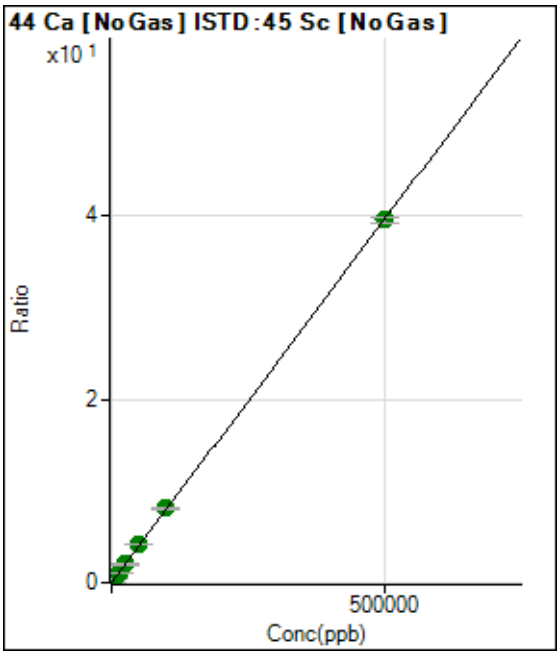
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	418.90	0.0000	P	8.2
2	☐	500.000	557.274	28606.29	0.0027	P	1.0
3	☐	5000.000	5237.620	269627.71	0.0255	P	1.6
4	☐	12500.000	12948.521	658945.87	0.0630	P	1.0
5	☐	25000.000	25865.046	1318677.40	0.1258	A	2.3
6	☐	50000.000	52812.055	2636408.17	0.2569	A	2.6
7	☐	100000.00	102909.14	5117125.24	0.5005	A	1.9
8	☐	500000.00	499080.06	23340811.32	2.4270	A	1.8

y = 4.8628E-006 * x + 4.0045E-005
R = 1.0000
DL = 2.029
BEC = 8.235

Weight: <None>
Min Conc: 0

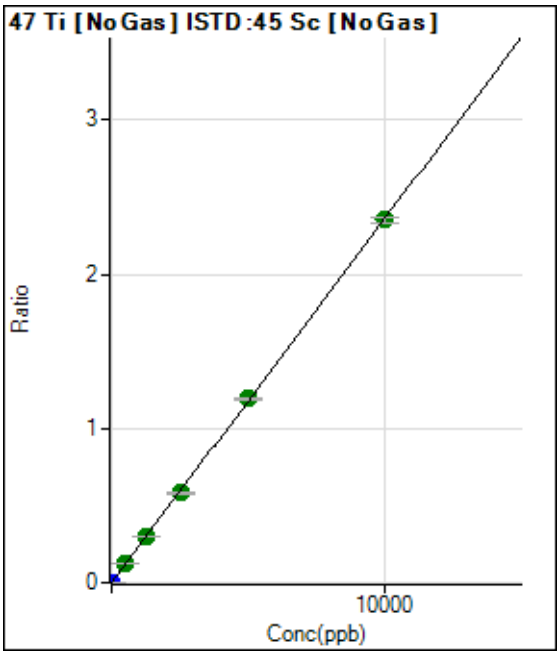


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29255.37	0.0028	P	1.1
2	☐	500.000	550.279	482897.91	0.0464	P	0.9
3	☐	5000.000	5237.700	4418528.03	0.4180	A	1.7
4	☐	12500.000	12884.254	10712373.38	1.0243	A	0.1
5	☐	25000.000	25348.293	21091365.24	2.0124	A	2.7
6	☐	50000.000	52048.012	42391909.09	4.1292	A	1.5
7	☐	100000.00	102351.35	83002634.32	8.1172	A	1.1
8	☐	500000.00	499295.47	380710749.8	39.5869	A	1.9

y = 7.9280E-005 * x + 0.0028
R = 1.0000
DL = 1.132
BEC = 35.26

Weight: <None>
Min Conc: 0

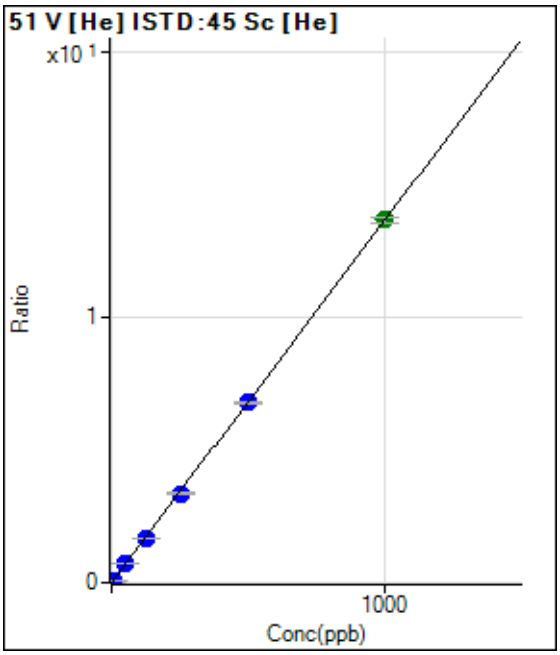
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	640.08	0.0001	P	15.8
2	☐	5.000	5.289	13608.75	0.0013	P	0.9
3	☐	500.000	512.437	1277689.90	0.1209	A	1.8
4	☐	1250.000	1266.661	3124153.88	0.2987	A	0.9
5	☐	2500.000	2461.336	6083835.88	0.5804	A	1.1
6	☐	5000.000	5058.425	12245010.10	1.1927	A	1.2
7	☐	10000.000	9977.749	24056862.42	2.3526	A	1.3
8	☐			4429.62	0.0005	P	3.8

y = 2.3578E-004 * x + 6.1210E-005
R = 1.0000
DL = 0.1232
BEC = 0.2596

Weight: <None>
Min Conc: 0

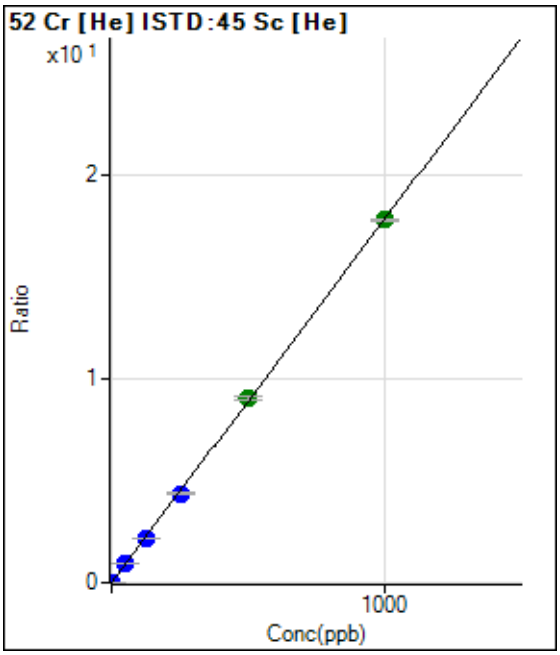


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.55	0.0001	P	45.5
2	☐	5.000	5.287	13518.69	0.0722	P	1.4
3	☐	50.000	50.766	127068.63	0.6929	P	0.7
4	☐	125.000	124.016	312836.60	1.6926	P	0.2
5	☐	250.000	246.737	621038.67	3.3674	P	2.7
6	☐	500.000	497.839	1236563.13	6.7943	P	1.2
7	☐	1000.000	1001.980	2513928.26	13.6746	A	1.4
8	☐			721.14	0.0041	P	5.7

y = 0.0136 * x + 8.4396E-005
R = 1.0000
DL = 0.008434
BEC = 0.006184

Weight: <None>
Min Conc: 0

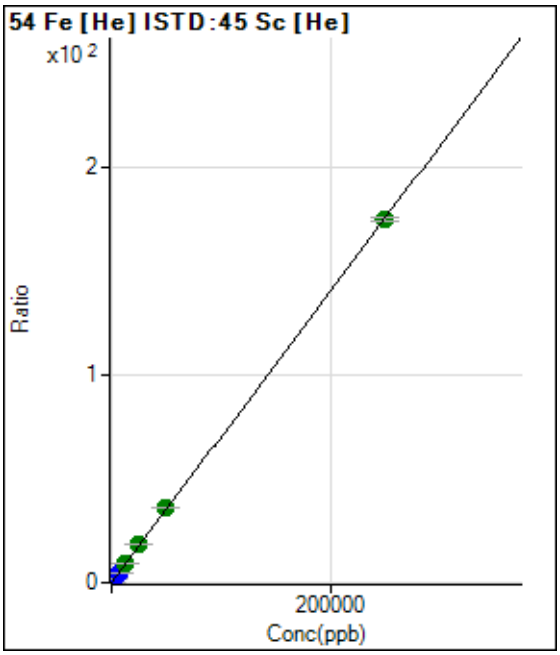
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	746.69	0.0040	P	5.8
2	☐	2.000	2.074	7658.78	0.0409	P	1.3
3	☐	50.000	50.527	165473.33	0.9024	P	0.7
4	☐	125.000	123.544	406715.60	2.2006	P	0.4
5	☐	250.000	243.673	799782.35	4.3364	P	2.2
6	☐	500.000	506.313	1639015.11	9.0059	A	2.1
7	☐	1000.000	998.581	3264720.71	17.7580	A	0.5
8	☐			10331.59	0.0590	P	1.9

y = 0.0178 * x + 0.0040
R = 0.9999
DL = 0.03972
BEC = 0.2271

Weight: <None>
Min Conc: 0

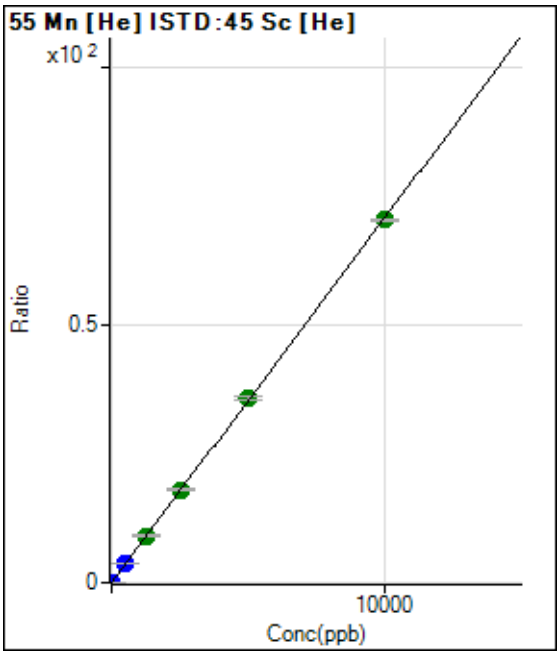


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0020	P	15.0
2	☐	50.000	56.743	7796.63	0.0417	P	1.1
3	☐	2500.000	2696.478	346196.43	1.8879	P	0.6
4	☐	6250.000	6564.854	848945.15	4.5934	P	1.1
5	☐	12500.000	13288.875	1714697.87	9.2961	A	1.8
6	☐	25000.000	26612.619	3387818.60	18.6147	A	1.5
7	☐	50000.000	51759.812	6655597.40	36.2025	A	0.4
8	☐	250000.00	249437.49	30521899.54	174.4570	A	1.2

y = 6.9939E-004 * x + 0.0020
R = 1.0000
DL = 1.267
BEC = 2.814

Weight: <None>
Min Conc: 0

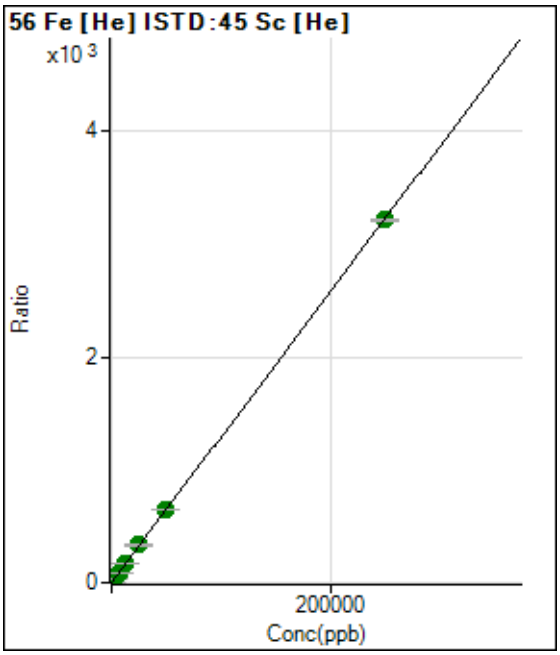
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0009	P	13.9
2	☐	1.000	1.039	1540.10	0.0082	P	3.3
3	☐	500.000	514.385	666753.06	3.6359	P	0.4
4	☐	1250.000	1288.953	1683574.99	9.1096	A	1.8
5	☐	2500.000	2554.575	3330009.78	18.0535	A	1.5
6	☐	5000.000	5051.624	6497271.29	35.6995	A	1.6
7	☐	10000.000	9954.956	12933611.89	70.3502	A	0.3
8	☐			5867.92	0.0335	P	2.6

y = 0.0071 * x + 8.8853E-004
R = 1.0000
DL = 0.05231
BEC = 0.1257

Weight: <None>
Min Conc: 0

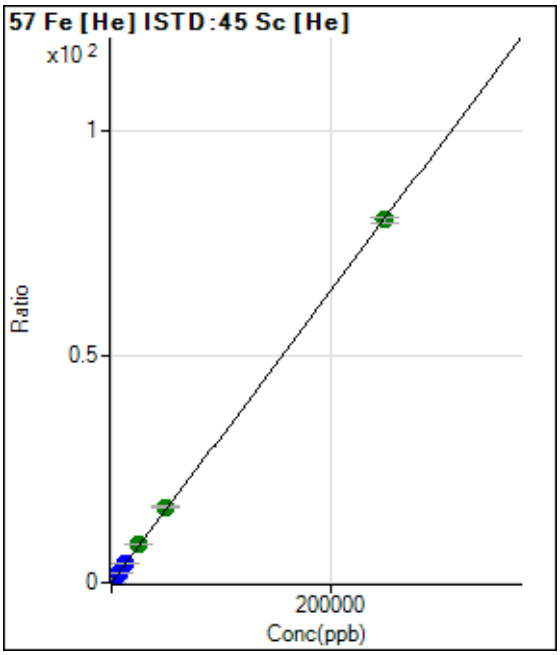


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5986.86	0.0324	P	1.5
2	☐	50.000	55.418	139578.56	0.7458	P	0.7
3	☐	2500.000	2687.743	6350587.89	34.6310	A	0.8
4	☐	6250.000	6542.381	15571277.27	84.2508	A	0.8
5	☐	12500.000	12986.197	30836203.98	167.2004	A	2.6
6	☐	25000.000	25941.773	60784408.54	333.9742	A	1.1
7	☐	50000.000	50686.796	119961205.9	652.5106	A	0.3
8	☐	250000.00	249734.96	562514476.0	3,214.807	A	0.7

y = 0.0129 * x + 0.0324
R = 1.0000
DL = 0.1131
BEC = 2.516

Weight: <None>
Min Conc: 0

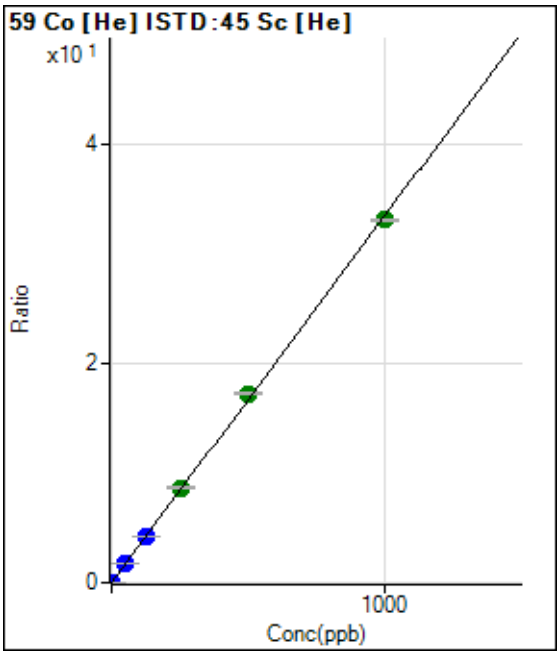
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137.78	0.0007	P	10.4
2	☐	50.000	54.915	3446.01	0.0184	P	2.5
3	☐	2500.000	2653.277	156656.71	0.8543	P	0.5
4	☐	6250.000	6481.522	385499.25	2.0858	P	0.7
5	☐	12500.000	12791.724	759108.12	4.1157	P	2.0
6	☐	25000.000	26686.958	1562671.56	8.5857	A	0.8
7	☐	50000.000	51971.331	3073859.16	16.7194	A	1.2
8	☐	250000.00	249415.13	14037437.98	80.2350	A	1.6

y = 3.2169E-004 * x + 7.4458E-004
R = 1.0000
DL = 0.722
BEC = 2.315

Weight: <None>
Min Conc: 0

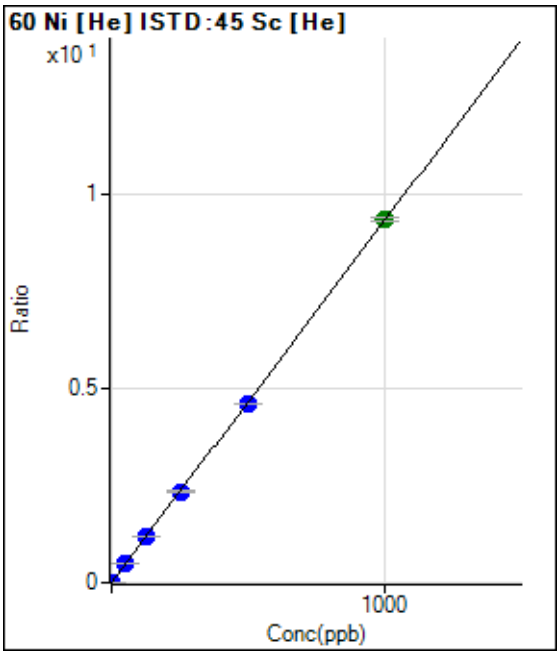


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0009	P	11.1
2	☐	1.000	1.137	7277.47	0.0389	P	2.1
3	☐	50.000	52.741	322956.36	1.7612	P	0.8
4	☐	125.000	127.362	785770.42	4.2516	P	1.0
5	☐	250.000	257.217	1583511.76	8.5854	A	2.1
6	☐	500.000	515.545	3131815.65	17.2069	A	0.6
7	☐	1000.000	989.991	6074573.17	33.0413	A	0.8
8	☐			12716.88	0.0727	P	1.8

y = 0.0334 * x + 9.4281E-004
R = 0.9998
DL = 0.009399
BEC = 0.02825

Weight: <None>
Min Conc: 0

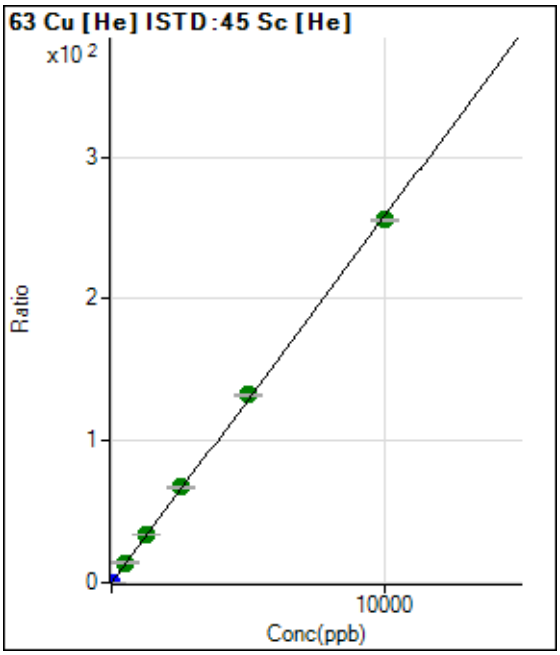
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	911.15	0.0049	P	3.1
2	☐	1.000	1.088	2815.86	0.0150	P	1.5
3	☐	50.000	52.412	90244.72	0.4921	P	0.8
4	☐	125.000	127.271	219562.39	1.1880	P	0.9
5	☐	250.000	250.554	430456.00	2.3340	P	2.4
6	☐	500.000	494.517	837554.47	4.6017	P	0.4
7	☐	1000.000	1002.199	1713577.08	9.3209	A	1.1
8	☐			6671.63	0.0381	P	3.2

y = 0.0093 * x + 0.0049
R = 1.0000
DL = 0.04913
BEC = 0.5304

Weight: <None>
Min Conc: 0

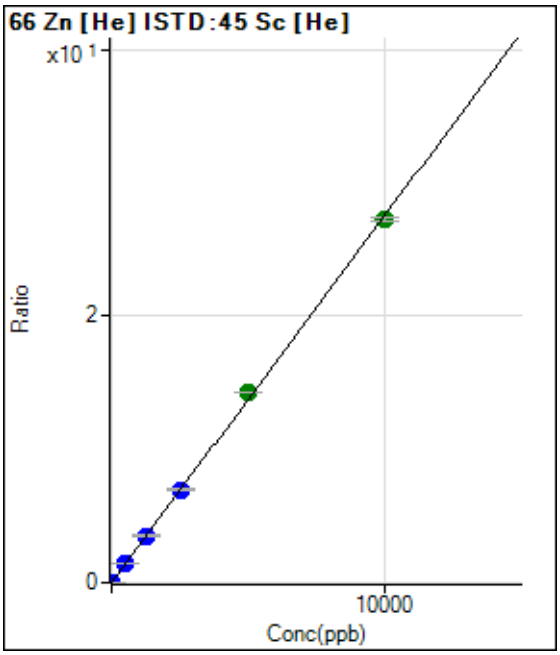


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3408.22	0.0184	P	4.3
2	☐	2.000	2.254	14341.79	0.0766	P	1.1
3	☐	500.000	549.997	2607152.39	14.2175	A	1.0
4	☐	1250.000	1309.061	6249460.25	33.8139	A	1.1
5	☐	2500.000	2606.155	12411753.15	67.3005	A	2.8
6	☐	5000.000	5119.625	24058980.75	132.1897	A	0.8
7	☐	10000.000	9903.766	47009129.30	255.6999	A	0.8
8	☐			11176.73	0.0639	P	2.1

y = 0.0258 * x + 0.0184
R = 0.9998
DL = 0.09155
BEC = 0.7144

Weight: <None>
Min Conc: 0

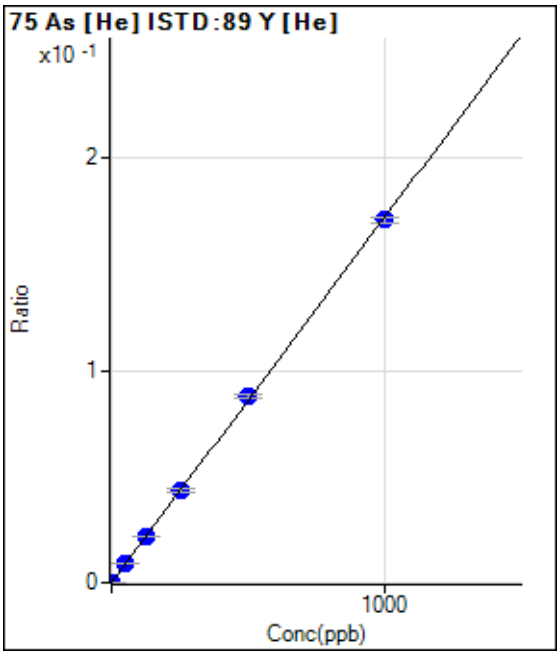
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0011	P	19.7
2	☐	2.000	5.719	3142.60	0.0168	P	3.5
3	☐	500.000	529.429	267299.64	1.4576	P	0.9
4	☐	1250.000	1280.881	651513.04	3.5251	P	0.8
5	☐	2500.000	2534.639	1286339.64	6.9745	P	2.2
6	☐	5000.000	5189.570	2598898.36	14.2788	A	0.1
7	☐	10000.000	9891.223	5003111.38	27.2142	A	0.9
8	☐			2770.30	0.0158	P	5.2

y = 0.0028 * x + 0.0011
R = 0.9997
DL = 0.228
BEC = 0.3851

Weight: <None>
Min Conc: 0

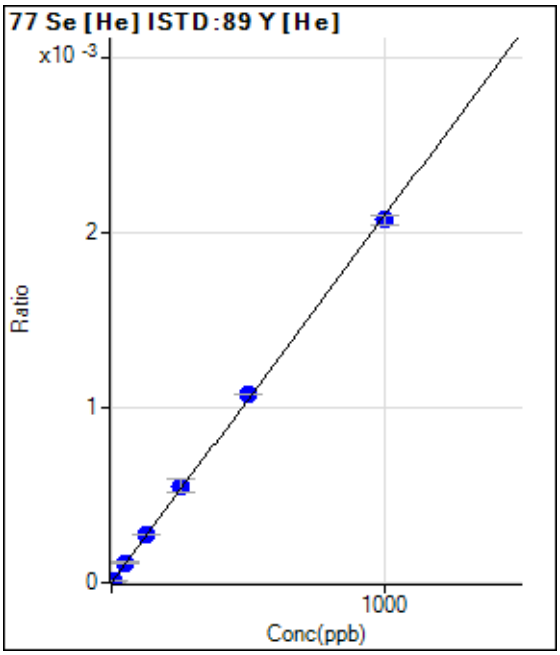


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	1.035	321.12	0.0002	P	6.4
3	☐	50.000	51.271	15063.70	0.0088	P	1.3
4	☐	125.000	125.336	36952.74	0.0215	P	0.1
5	☐	250.000	254.368	74181.62	0.0437	P	4.4
6	☐	500.000	510.113	146407.79	0.0877	P	1.7
7	☐	1000.000	993.746	289459.19	0.1708	P	1.3
8	☐			161.11	0.0001	P	11.4

y = 1.7185E-004 * x + 6.4940E-006
R = 0.9999
DL = 0.09818
BEC = 0.03779

Weight: <None>
Min Conc: 0

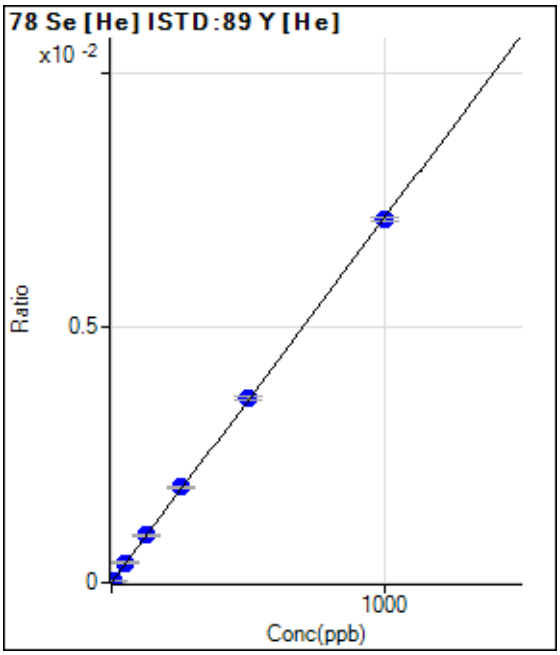
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.860	18.89	0.0000	P	26.6
3	☐	50.000	53.081	191.11	0.0001	P	8.7
4	☐	125.000	130.536	470.01	0.0003	P	2.6
5	☐	250.000	264.367	938.93	0.0006	P	12.2
6	☐	500.000	513.088	1795.69	0.0011	P	0.6
7	☐	1000.000	989.019	3512.70	0.0021	P	2.4
8	☐			5.56	0.0000	P	91.3

y = 2.0943E-006 * x + 6.4547E-007
R = 0.9998
DL = 1.601
BEC = 0.3082

Weight: <None>
Min Conc: 0

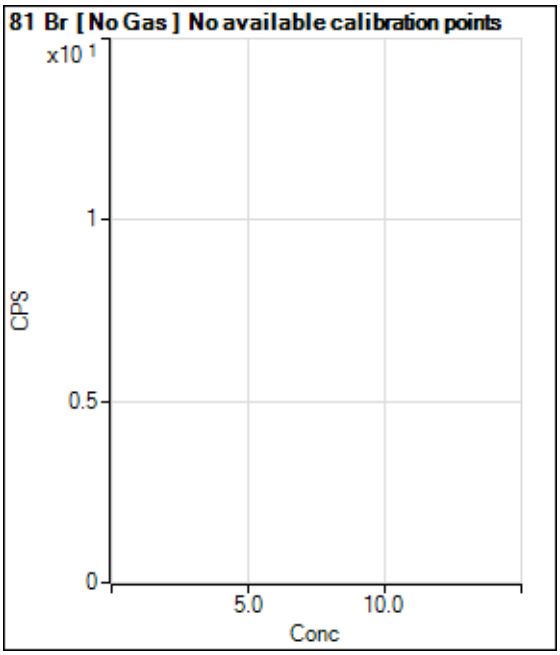


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.6
2	☐	5.000	5.251	68.89	0.0000	P	19.6
3	☐	50.000	53.807	661.13	0.0004	P	6.4
4	☐	125.000	130.981	1610.11	0.0009	P	3.7
5	☐	250.000	261.912	3183.72	0.0019	P	1.4
6	☐	500.000	503.494	6016.91	0.0036	P	2.2
7	☐	1000.000	994.336	12056.36	0.0071	P	1.1
8	☐			15.56	0.0000	P	52.3

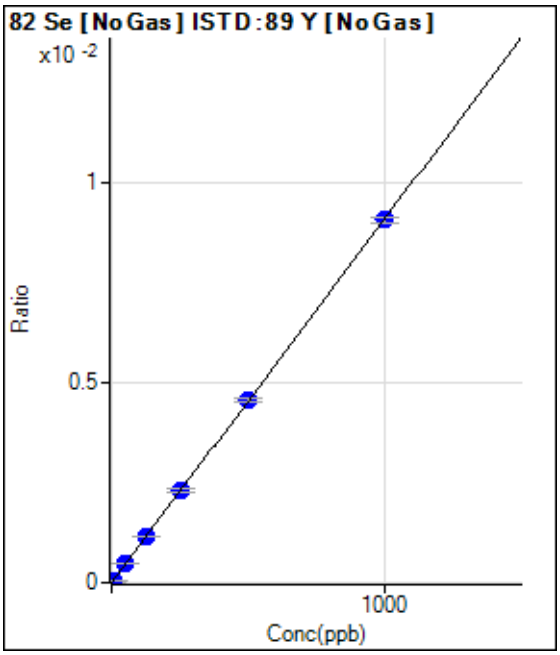
y = 7.1519E-006 * x + 1.9431E-006
R = 0.9999
DL = 0.8116
BEC = 0.2717

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3632.73		P	4.5
2	☐			3846.13		P	1.9
3	☐			3836.12		P	1.4
4	☐			3917.26		P	1.7
5	☐			3969.49		P	2.4
6	☐			3911.70		P	1.8
7	☐			4038.40		P	3.3
8	☐			4264.02		P	2.2

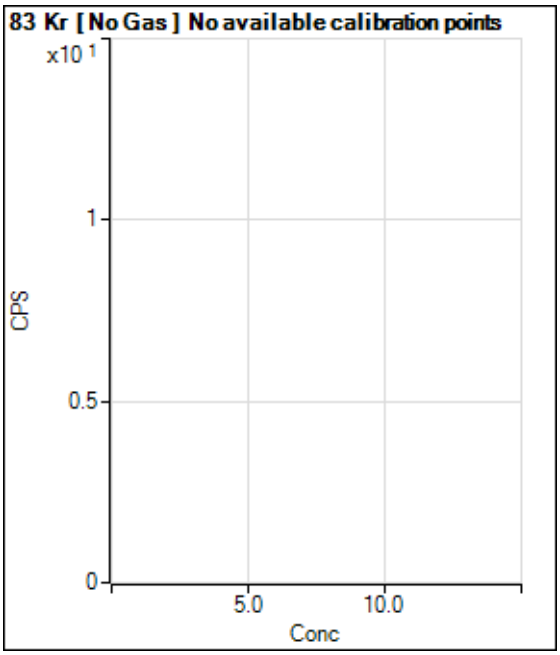


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-35.56	0.0000	P	-108.
2	☐	5.000	5.690	1360.11	0.0001	P	6.7
3	☐	50.000	51.353	12673.84	0.0005	P	3.7
4	☐	125.000	125.574	30977.02	0.0011	P	0.3
5	☐	250.000	255.037	62439.44	0.0023	P	3.5
6	☐	500.000	500.836	122328.15	0.0046	P	1.9
7	☐	1000.000	998.180	240507.81	0.0091	P	1.5
8	☐			-31.12	0.0000	P	-86.4

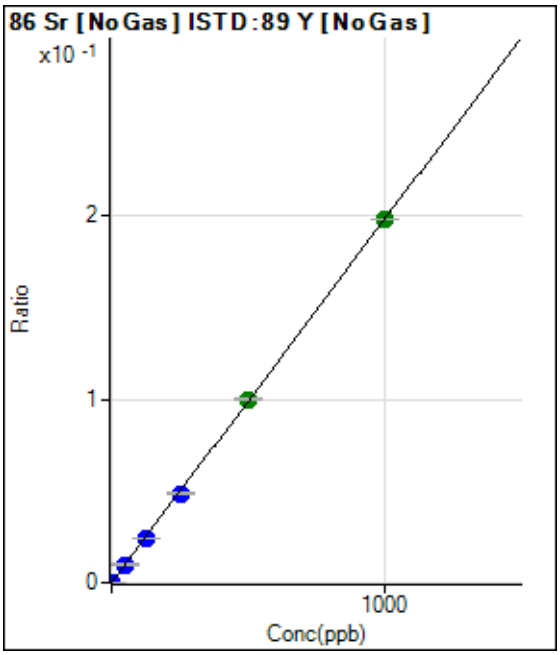
y = 9.1072E-006 * x - 1.3157E-006
R = 1.0000
DL = 0.4707
BEC = -0.1445

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			285.56		P	17.3
2	☐			291.12		P	15.6
3	☐			262.23		P	15.9
4	☐			277.78		P	5.9
5	☐			264.45		P	9.5
6	☐			291.12		P	0.7
7	☐			317.79		P	4.2
8	☐			357.79		P	6.9

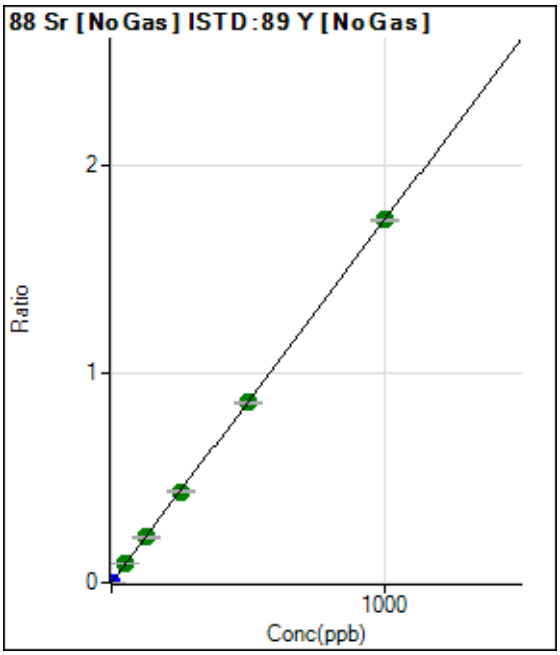


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	781.14	0.0000	P	6.5
2	☐	1.000	1.039	6325.94	0.0002	P	2.4
3	☐	50.000	50.116	270837.62	0.0100	P	1.2
4	☐	125.000	123.384	664050.36	0.0245	P	1.2
5	☐	250.000	245.451	1309660.60	0.0487	P	2.7
6	☐	500.000	504.909	2685975.69	0.1001	A	1.5
7	☐	1000.000	998.879	5240817.01	0.1980	A	0.2
8	☐			15965.88	0.0006	P	1.7

y = 1.9824E-004 * x + 2.8879E-005
R = 1.0000
DL = 0.02836
BEC = 0.1457

Weight: <None>
Min Conc: 0

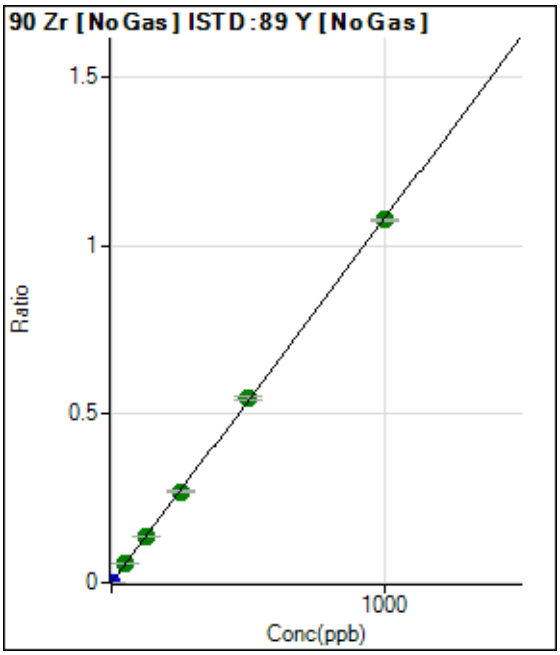
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2825.87	0.0001	P	5.6
2	☐	1.000	1.051	51967.28	0.0019	P	0.6
3	☐	50.000	51.020	2410345.68	0.0887	A	1.4
4	☐	125.000	125.158	5894713.10	0.2174	A	1.2
5	☐	250.000	250.752	11713536.63	0.4354	A	2.0
6	☐	500.000	498.039	23198508.54	0.8647	A	1.0
7	☐	1000.000	1000.722	45973874.87	1.7374	A	0.6
8	☐			136274.86	0.0055	P	0.8

y = 0.0017 * x + 1.0448E-004
R = 1.0000
DL = 0.01018
BEC = 0.06018

Weight: <None>
Min Conc: 0

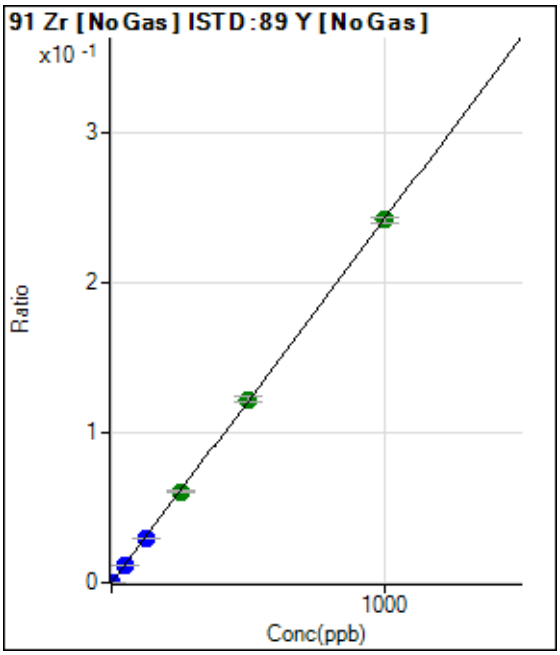


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	913.37	0.0000	P	0.9
2	☐	1.000	1.028	30819.64	0.0011	P	0.7
3	☐	50.000	51.000	1497319.02	0.0551	A	2.0
4	☐	125.000	125.544	3675817.06	0.1356	A	1.3
5	☐	250.000	250.667	7280292.88	0.2706	A	2.2
6	☐	500.000	506.355	14665439.92	0.5466	A	1.7
7	☐	1000.000	996.538	28467033.47	1.0758	A	0.8
8	☐			46238.69	0.0019	P	0.2

y = 0.0011 * x + 3.3766E-005
R = 1.0000
DL = 0.0008525
BEC = 0.03128

Weight: <None>
Min Conc: 0

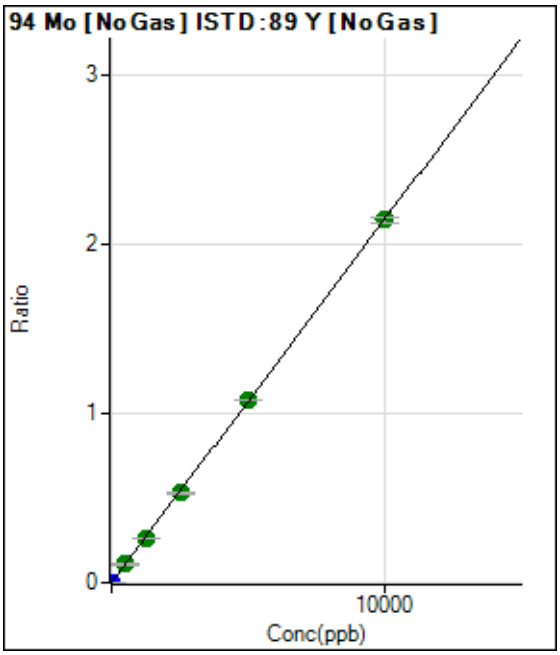
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0000	P	10.5
2	☐	1.000	1.011	6780.59	0.0003	P	2.2
3	☐	50.000	49.304	325406.46	0.0120	P	2.6
4	☐	125.000	121.120	797307.97	0.0294	P	1.0
5	☐	250.000	250.640	1636637.43	0.0608	A	2.2
6	☐	500.000	504.843	3287332.35	0.1225	A	2.3
7	☐	1000.000	997.938	6409197.75	0.2422	A	1.4
8	☐			10289.43	0.0004	P	0.9

y = 2.4270E-004 * x + 6.4489E-006
R = 1.0000
DL = 0.008347
BEC = 0.02657

Weight: <None>
Min Conc: 0

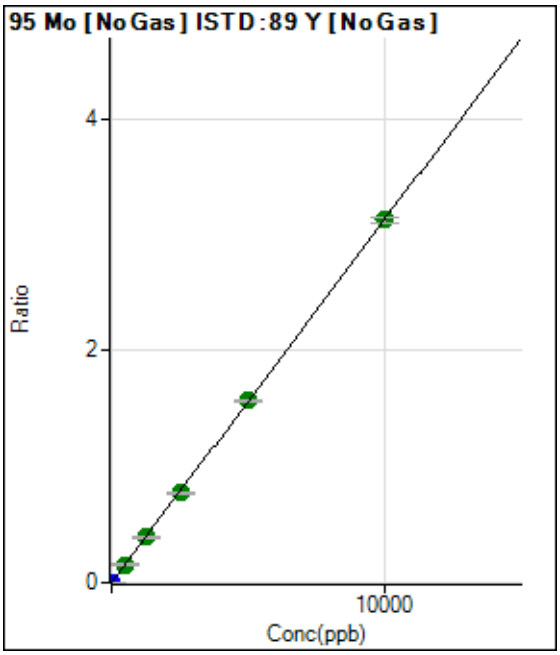


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	391.12	0.0000	P	11.5
2	☐	5.000	6.230	36412.05	0.0014	P	1.0
3	☐	500.000	504.362	2942752.00	0.1083	A	2.7
4	☐	1250.000	1234.020	7183080.38	0.2649	A	0.1
5	☐	2500.000	2481.328	14327663.40	0.5326	A	2.3
6	☐	5000.000	5027.630	28951671.24	1.0791	A	0.8
7	☐	10000.000	9992.632	56753204.71	2.1448	A	1.4
8	☐			40232.46	0.0016	P	0.9

y = 2.1464E-004 * x + 1.4461E-005
R = 1.0000
DL = 0.02315
BEC = 0.06737

Weight: <None>
Min Conc: 0

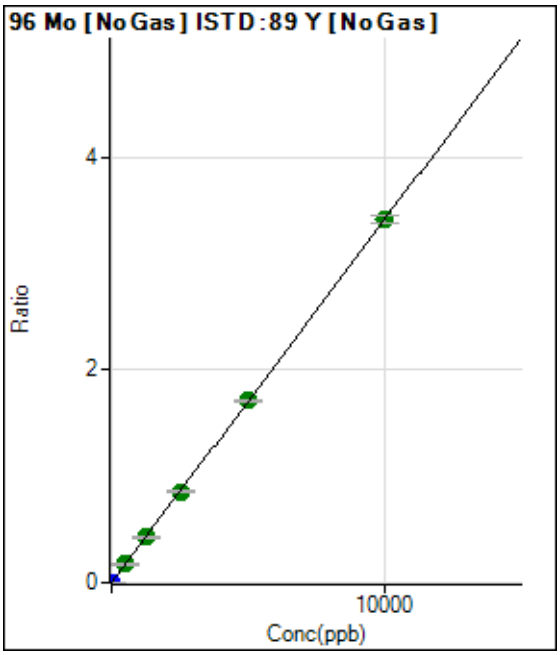
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.23	0.0000	P	12.5
2	☐	5.000	5.167	43726.33	0.0016	P	0.6
3	☐	500.000	502.824	4278614.90	0.1574	A	1.4
4	☐	1250.000	1248.540	10597854.98	0.3908	A	1.0
5	☐	2500.000	2487.536	20947410.10	0.7786	A	2.1
6	☐	5000.000	5012.688	42095429.37	1.5691	A	1.1
7	☐	10000.000	9996.813	82800687.10	3.1292	A	1.4
8	☐			41343.55	0.0017	P	1.8

y = 3.1302E-004 * x + 5.6281E-006
R = 1.0000
DL = 0.006769
BEC = 0.01798

Weight: <None>
Min Conc: 0

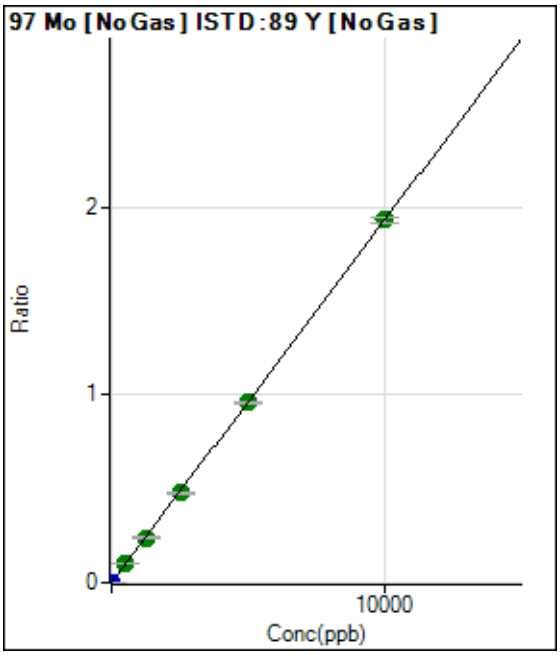


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0000	P	6.5
2	☐	5.000	5.321	49197.85	0.0018	P	1.4
3	☐	500.000	506.172	4699074.41	0.1729	A	1.3
4	☐	1250.000	1246.948	11548227.88	0.4259	A	0.6
5	☐	2500.000	2496.006	22931215.21	0.8524	A	2.5
6	☐	5000.000	5008.971	45893952.65	1.7106	A	1.3
7	☐	10000.000	9996.586	90334759.76	3.4140	A	2.0
8	☐			47771.86	0.0019	P	1.7

y = 3.4151E-004 * x + 9.0788E-006
R = 1.0000
DL = 0.005151
BEC = 0.02658

Weight: <None>
Min Conc: 0

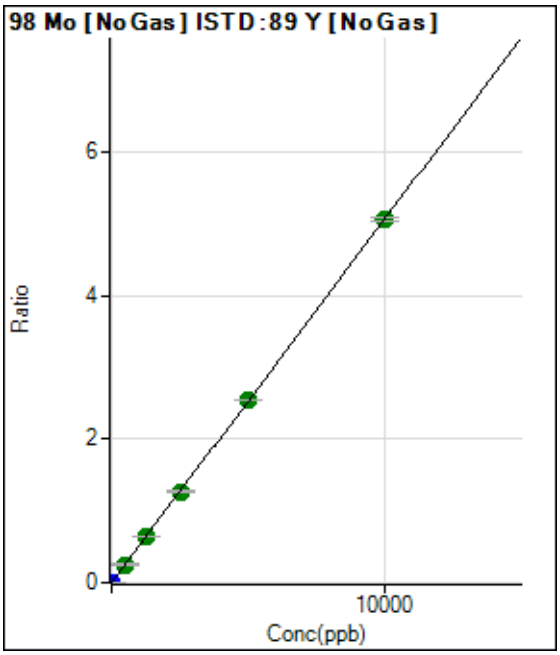
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.22	0.0000	P	11.2
2	☐	5.000	5.281	27557.40	0.0010	P	0.6
3	☐	500.000	510.788	2677493.29	0.0985	A	1.7
4	☐	1250.000	1246.636	6519029.76	0.2404	A	1.1
5	☐	2500.000	2490.455	12919576.75	0.4803	A	2.4
6	☐	5000.000	4979.357	25761610.17	0.9602	A	0.8
7	☐	10000.000	10012.589	51090981.46	1.9308	A	1.7
8	☐			25497.94	0.0010	P	1.0

y = 1.9284E-004 * x + 4.5188E-006
R = 1.0000
DL = 0.007839
BEC = 0.02343

Weight: <None>
Min Conc: 0

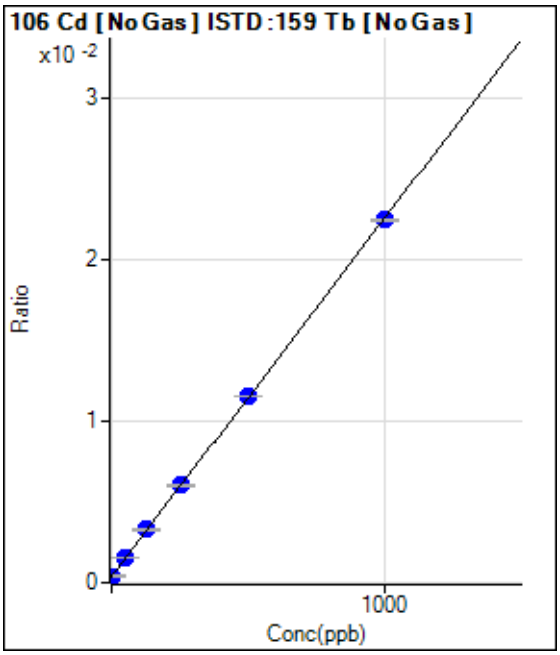


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	9.6
2	☐	5.000	5.179	70761.38	0.0026	P	0.6
3	☐	500.000	502.440	6906871.50	0.2541	A	2.0
4	☐	1250.000	1247.750	17112852.80	0.6310	A	0.6
5	☐	2500.000	2500.990	34024028.66	1.2649	A	2.8
6	☐	5000.000	5027.166	68212822.32	2.5425	A	0.8
7	☐	10000.000	9986.329	133643052.4	5.0505	A	1.1
8	☐			65447.77	0.0026	P	0.6

y = 5.0574E-004 * x + 7.2715E-006
R = 1.0000
DL = 0.004143
BEC = 0.01438

Weight: <None>
Min Conc: 0

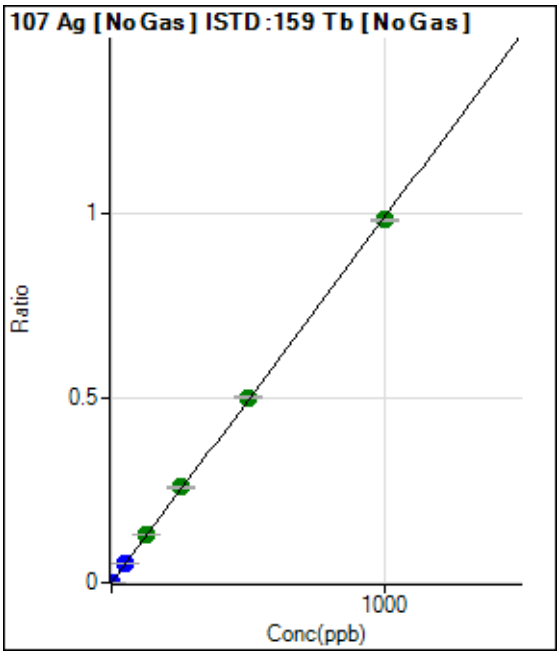
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8269.21	0.0004	P	0.7
2	☐	1.000	0.475	8583.87	0.0004	P	4.0
3	☐	50.000	53.290	33574.09	0.0016	P	1.4
4	☐	125.000	130.198	69305.01	0.0033	P	1.1
5	☐	250.000	255.105	127219.42	0.0061	P	2.4
6	☐	500.000	503.967	244847.64	0.0116	P	0.5
7	☐	1000.000	995.927	467069.89	0.0225	P	0.6
8	☐			7897.89	0.0004	P	2.8

y = 2.2169E-005 * x + 4.0012E-004
R = 1.0000
DL = 0.361
BEC = 18.05

Weight: <None>
Min Conc: 0

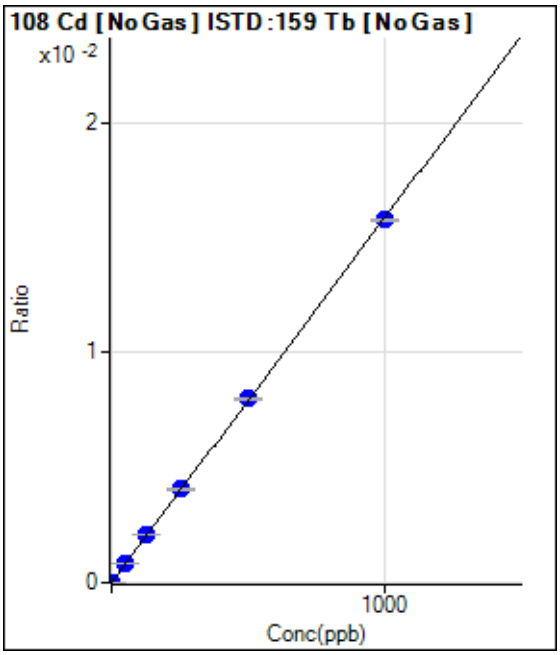


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0000	P	7.7
2	☐	1.000	1.052	21977.59	0.0011	P	1.9
3	☐	50.000	52.011	1091906.39	0.0514	P	1.4
4	☐	125.000	132.119	2755006.56	0.1306	A	0.4
5	☐	250.000	260.734	5416344.64	0.2578	A	2.1
6	☐	500.000	506.633	10598469.63	0.5009	A	1.0
7	☐	1000.000	993.010	20400324.14	0.9818	A	0.7
8	☐			3576.06	0.0002	P	2.7

y = 9.8873E-004 * x + 1.1244E-005
R = 0.9999
DL = 0.002643
BEC = 0.01137

Weight: <None>
Min Conc: 0

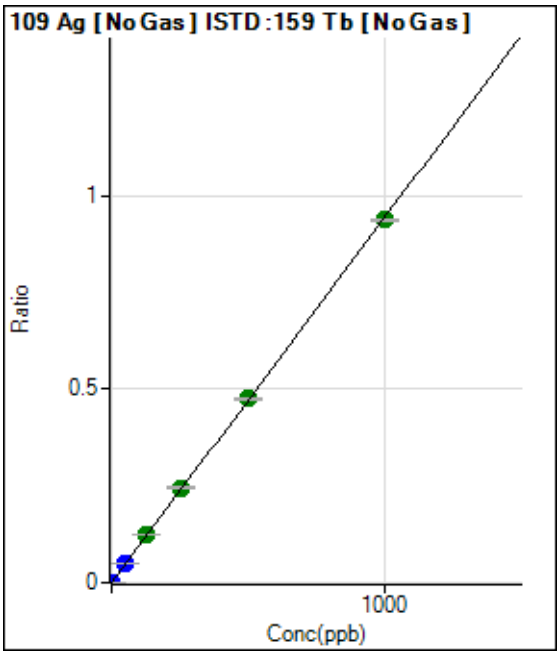
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	43.1
2	☐	1.000	1.069	374.45	0.0000	P	5.8
3	☐	50.000	52.508	17692.57	0.0008	P	2.3
4	☐	125.000	131.307	43924.10	0.0021	P	0.7
5	☐	250.000	257.135	85667.25	0.0041	P	2.9
6	☐	500.000	504.141	169137.44	0.0080	P	0.8
7	☐	1000.000	995.232	327895.52	0.0158	P	0.6
8	☐			264.45	0.0000	P	22.2

y = 1.5855E-005 * x + 9.6494E-007
R = 0.9999
DL = 0.07876
BEC = 0.06086

Weight: <None>
Min Conc: 0

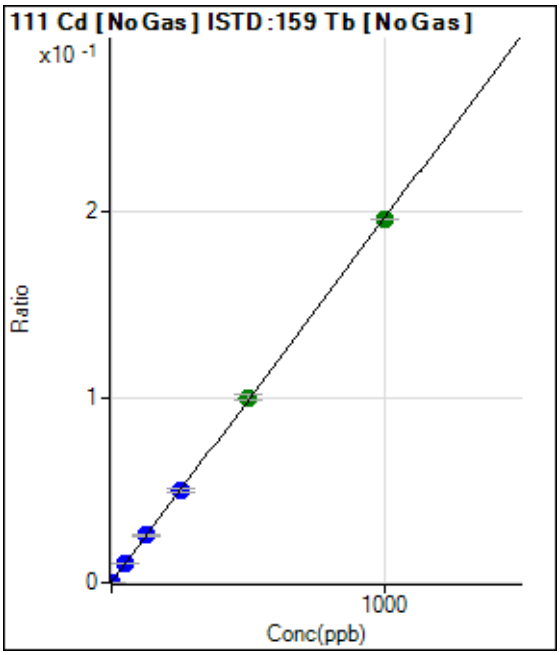


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0000	P	17.9
2	☐	1.000	1.067	21104.05	0.0010	P	1.9
3	☐	50.000	52.147	1043710.47	0.0492	P	1.8
4	☐	125.000	132.450	2633330.61	0.1249	A	1.1
5	☐	250.000	258.777	5125797.43	0.2440	A	2.1
6	☐	500.000	505.377	10080838.12	0.4765	A	1.2
7	☐	1000.000	994.079	19473775.13	0.9372	A	0.8
8	☐			3310.43	0.0002	P	8.7

y = 9.4279E-004 * x + 3.2280E-006
R = 0.9999
DL = 0.001837
BEC = 0.003424

Weight: <None>
Min Conc: 0

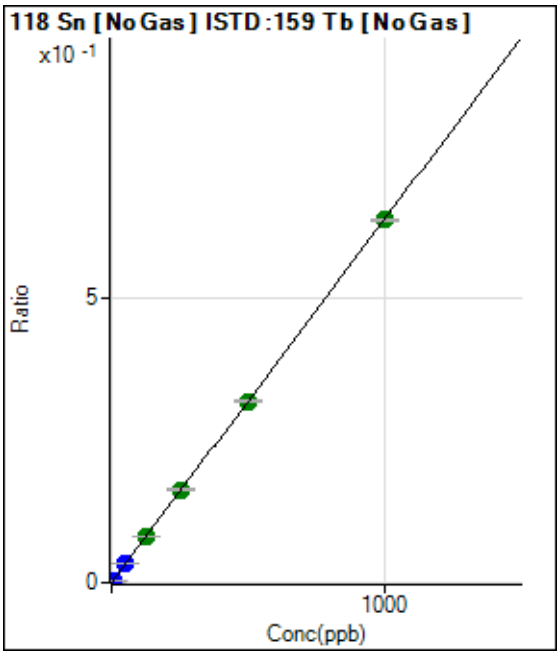
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5794.45	0.0003	P	0.8
2	☐	1.000	1.092	10342.96	0.0005	P	2.3
3	☐	50.000	52.063	222924.08	0.0105	P	1.6
4	☐	125.000	128.359	537297.32	0.0255	P	1.7
5	☐	250.000	252.065	1045505.93	0.0498	P	2.6
6	☐	500.000	507.835	2115317.97	0.1000	A	2.4
7	☐	1000.000	995.043	4064870.65	0.1956	A	0.1
8	☐			6083.44	0.0003	P	3.6

y = 1.9632E-004 * x + 2.8038E-004
R = 0.9999
DL = 0.03577
BEC = 1.428

Weight: <None>
Min Conc: 0

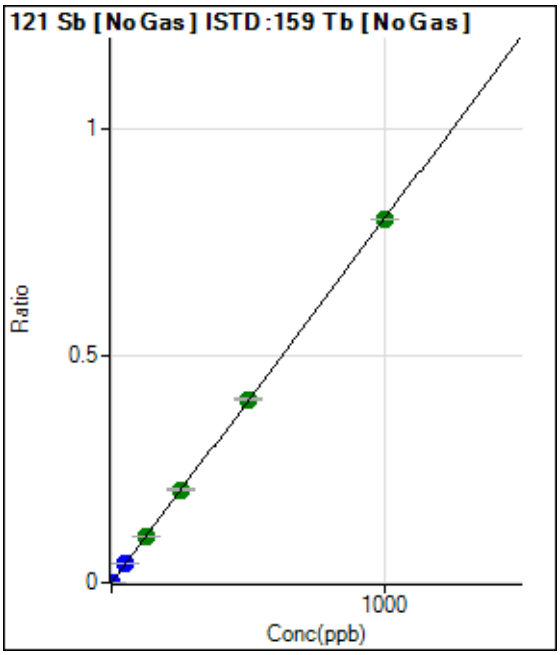


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3199.33	0.0002	P	1.4
2	☐	5.000	5.406	75531.26	0.0036	P	1.0
3	☐	50.000	51.155	697930.70	0.0329	P	1.7
4	☐	125.000	128.995	1743462.38	0.0827	A	0.2
5	☐	250.000	255.483	3437226.72	0.1636	A	1.4
6	☐	500.000	499.030	6757281.01	0.3194	A	0.6
7	☐	1000.000	998.555	13275721.05	0.6389	A	0.7
8	☐			4106.22	0.0002	P	7.3

y = 6.3969E-004 * x + 1.5482E-004
R = 1.0000
DL = 0.01045
BEC = 0.242

Weight: <None>
Min Conc: 0

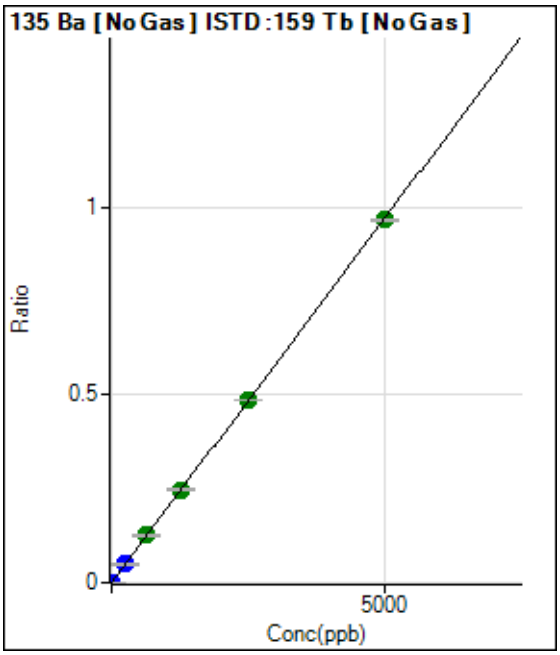
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.22	0.0000	P	20.8
2	☐	2.000	2.170	36398.34	0.0017	P	1.1
3	☐	50.000	50.695	862187.81	0.0406	P	1.5
4	☐	125.000	128.994	2179274.22	0.1033	A	0.3
5	☐	250.000	254.133	4277443.27	0.2036	A	1.9
6	☐	500.000	503.651	8536571.33	0.4035	A	0.8
7	☐	1000.000	996.607	16589281.14	0.7984	A	0.0
8	☐			13604.64	0.0007	P	3.0

y = 8.0110E-004 * x + 2.5284E-006
R = 1.0000
DL = 0.001972
BEC = 0.003156

Weight: <None>
Min Conc: 0

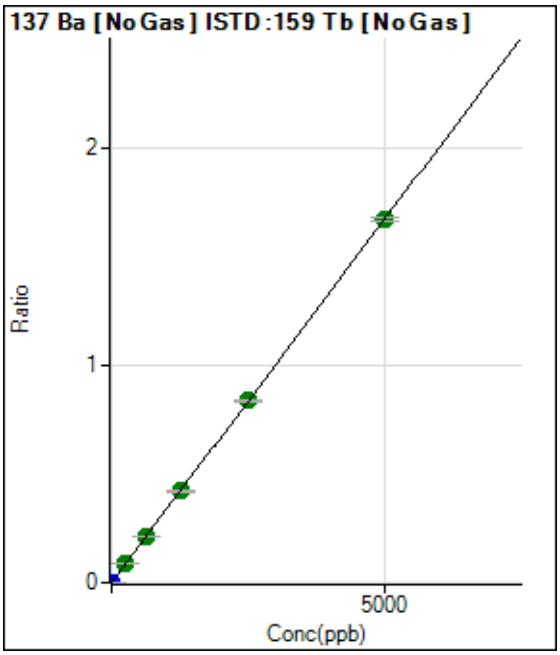


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.90	0.0000	P	3.4
2	☐	10.000	10.674	43544.16	0.0021	P	1.5
3	☐	250.000	252.123	1038393.20	0.0489	P	1.1
4	☐	625.000	650.192	2659638.67	0.1261	A	1.5
5	☐	1250.000	1270.549	5177905.86	0.2464	A	1.9
6	☐	2500.000	2516.167	10325885.82	0.4880	A	0.2
7	☐	5000.000	4983.523	20084869.70	0.9666	A	0.5
8	☐			7615.55	0.0004	P	2.4

y = 1.9396E-004 * x + 1.2526E-005
R = 1.0000
DL = 0.006518
BEC = 0.06458

Weight: <None>
Min Conc: 0

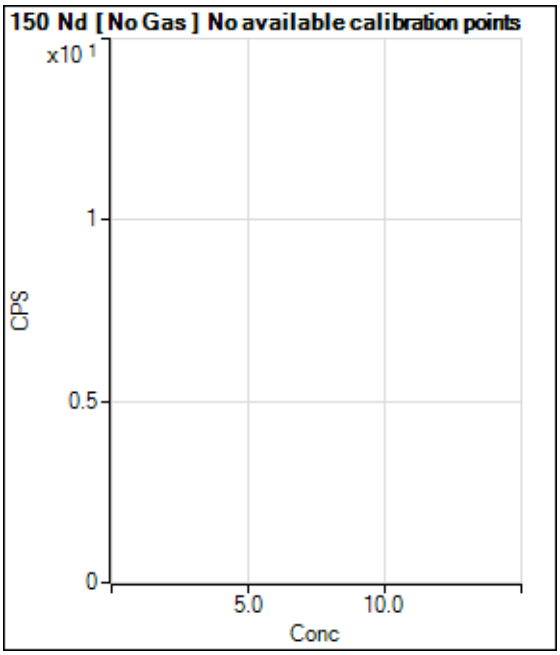
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	338.90	0.0000	P	6.9
2	☐	10.000	10.756	75685.51	0.0036	P	1.4
3	☐	250.000	257.171	1829544.00	0.0862	A	1.1
4	☐	625.000	640.558	4525920.42	0.2146	A	2.3
5	☐	1250.000	1263.268	8892373.48	0.4233	A	2.6
6	☐	2500.000	2501.767	17734934.73	0.8382	A	0.6
7	☐	5000.000	4993.495	34762336.70	1.6731	A	1.2
8	☐			13198.77	0.0007	P	2.6

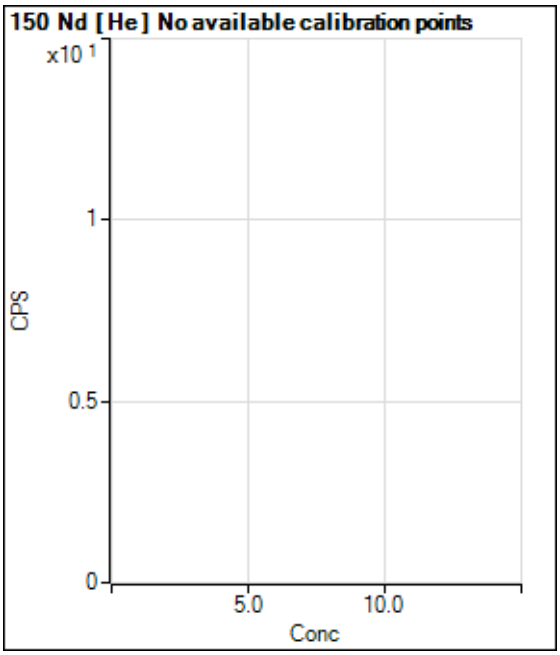
y = 3.3505E-004 * x + 1.6387E-005
R = 1.0000
DL = 0.01019
BEC = 0.04891

Weight: <None>
Min Conc: 0

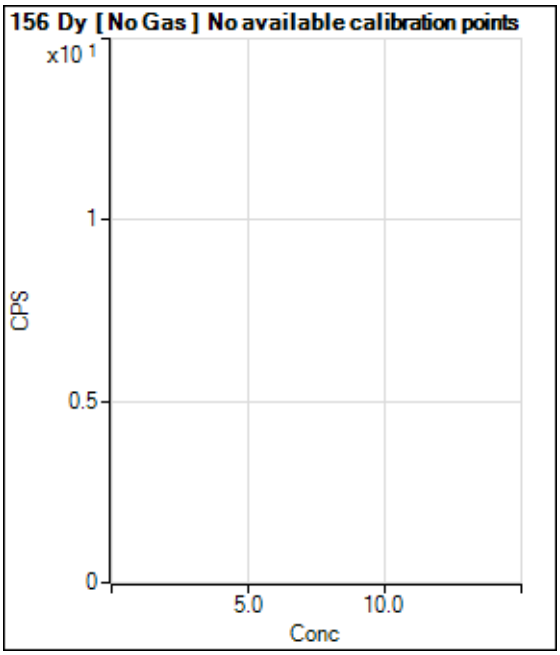


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.00		P	57.7
2	☐			13.33		P	50.0
3	☐			92.22		P	32.4
4	☐			184.45		P	25.6
5	☐			342.23		P	7.2
6	☐			650.02		P	7.2
7	☐			1277.85		P	6.8
8	☐			373.35		P	4.1

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Inst Id :P8

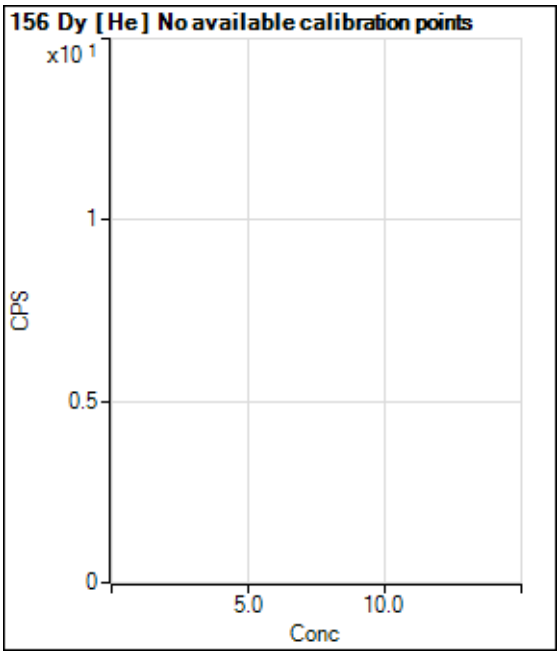


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	100.1
3	☐			3.33		P	100.1
4	☐			3.33		P	173.2
5	☐			12.22		P	56.8
6	☐			16.67		P	20.0
7	☐			41.11		P	32.8
8	☐			70.00		P	26.5

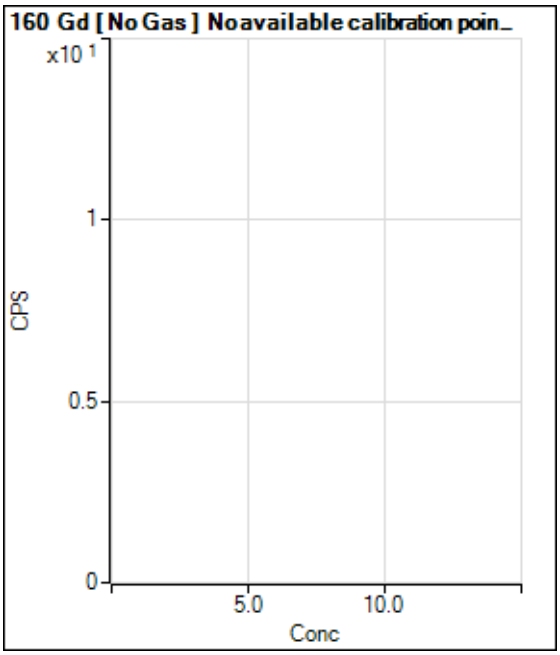


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			136.67		P	21.7
2	☐			150.00		P	9.7
3	☐			203.34		P	16.6
4	☐			267.78		P	12.0
5	☐			314.45		P	3.4
6	☐			354.45		P	6.1
7	☐			524.46		P	5.8
8	☐			696.69		P	7.8

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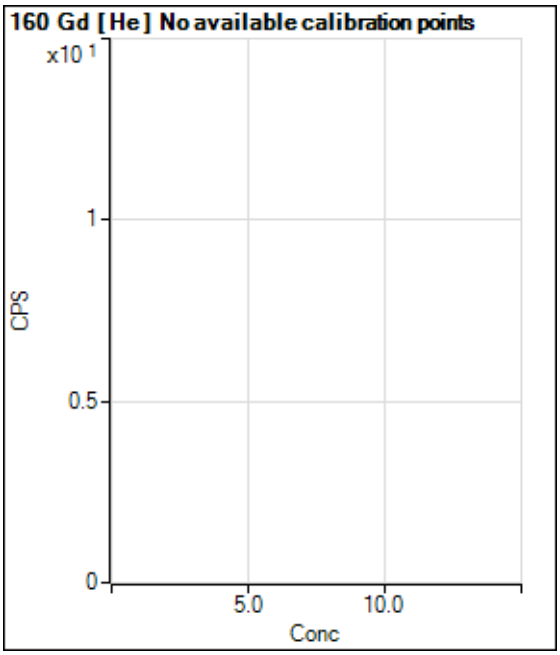


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.1
2	☐			12.22		P	31.5
3	☐			11.11		P	96.4
4	☐			8.89		P	94.4
5	☐			23.33		P	49.5
6	☐			27.78		P	18.3
7	☐			44.44		P	18.9
8	☐			196.67		P	10.6

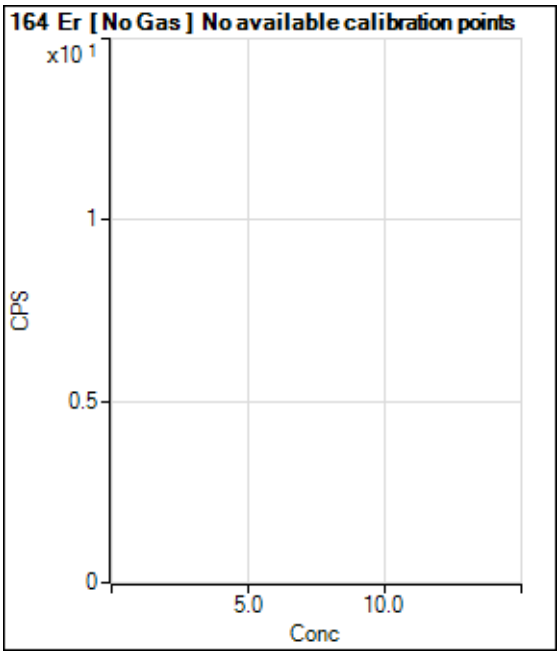


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			135.56		P	14.8
2	☐			131.12		P	8.2
3	☐			123.34		P	27.0
4	☐			145.56		P	16.6
5	☐			165.56		P	15.1
6	☐			203.34		P	12.8
7	☐			245.56		P	5.7
8	☐			626.69		P	4.5

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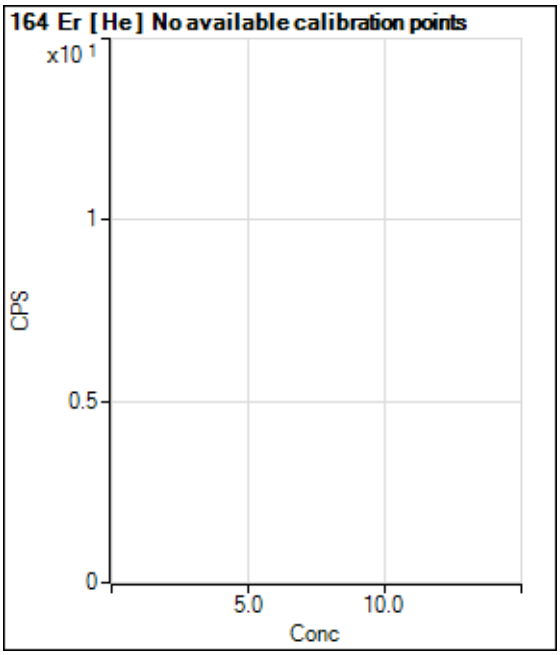


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.56		P	49.4
2	☐			18.89		P	27.0
3	☐			16.67		P	20.0
4	☐			28.89		P	37.1
5	☐			37.78		P	35.7
6	☐			54.44		P	9.4
7	☐			70.00		P	40.7
8	☐			233.34		P	8.0

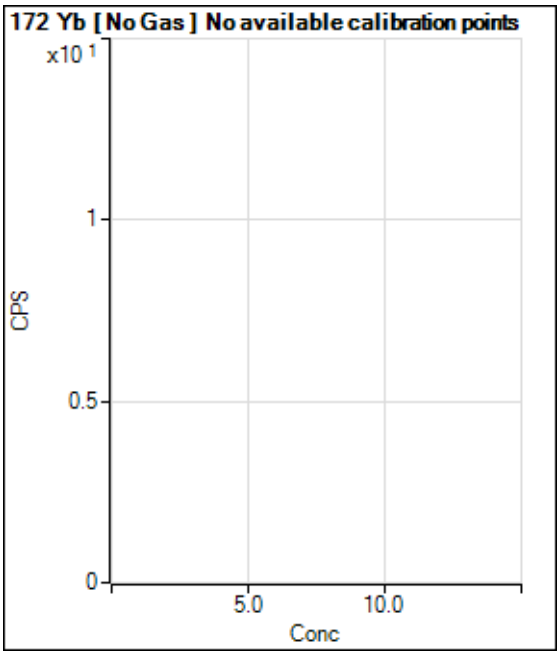


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			122.22		P	20.7
2	☐			86.67		P	24.0
3	☐			143.34		P	15.2
4	☐			140.00		P	8.6
5	☐			138.89		P	6.9
6	☐			182.22		P	11.2
7	☐			271.12		P	6.2
8	☐			733.36		P	6.1

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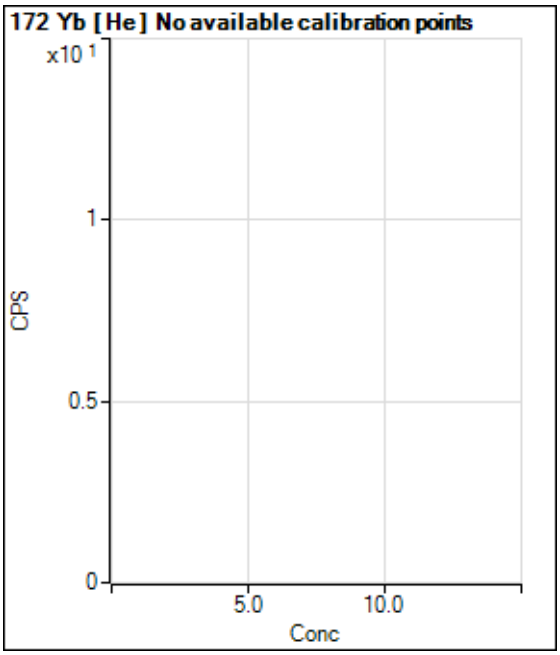


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			32.22		P	21.5
2	☐			26.67		P	37.5
3	☐			41.11		P	18.7
4	☐			46.67		P	28.6
5	☐			54.45		P	19.7
6	☐			55.55		P	12.5
7	☐			97.78		P	20.5
8	☐			225.56		P	14.6

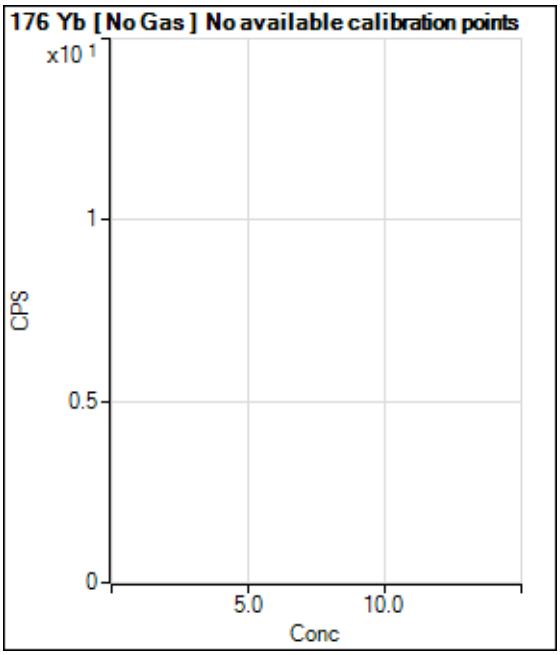


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			125.56		P	8.1
2	☐			128.89		P	9.1
3	☐			103.33		P	8.5
4	☐			144.45		P	25.5
5	☐			148.89		P	7.2
6	☐			230.01		P	12.9
7	☐			313.34		P	15.1
8	☐			862.26		P	7.6

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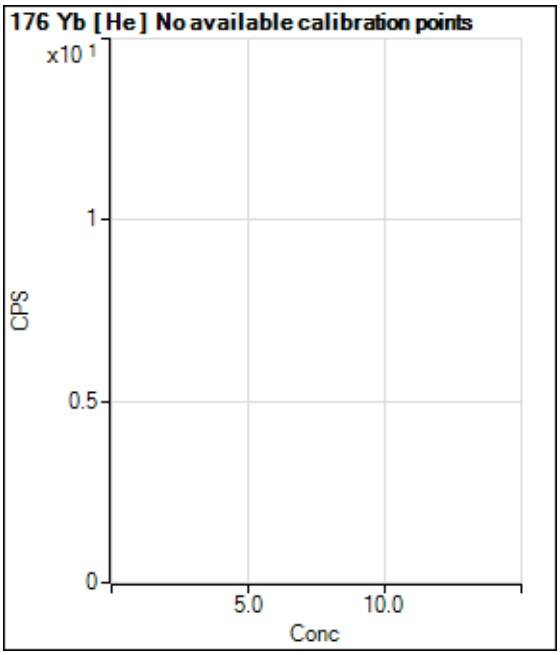


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			34.44		P	47.7
2	☐			40.00		P	30.0
3	☐			47.78		P	14.5
4	☐			54.44		P	9.4
5	☐			75.55		P	22.2
6	☐			58.89		P	18.2
7	☐			127.78		P	6.6
8	☐			332.23		P	11.2

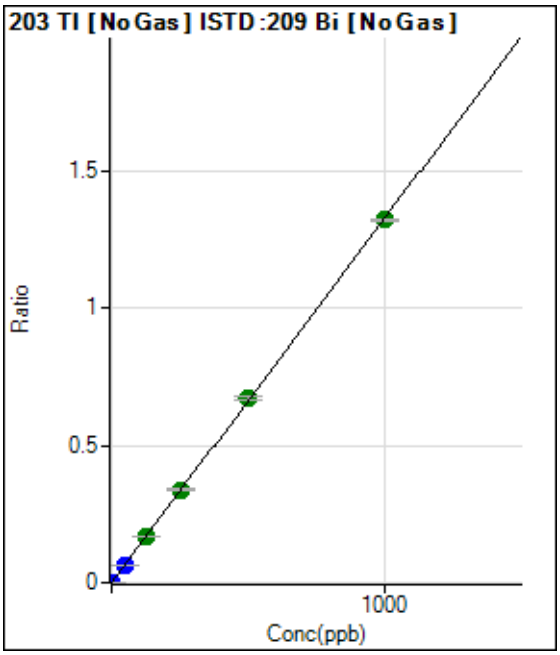


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2189.10		P	15.6
2	☐			2255.77		P	4.4
3	☐			6351.59		P	1.6
4	☐			12213.51		P	1.8
5	☐			22188.75		P	1.4
6	☐			41934.12		P	2.2
7	☐			81353.87		P	0.6
8	☐			2636.96		P	2.1

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			372.23		P	8.5
2	☐			364.45		P	9.8
3	☐			1597.89		P	4.4
4	☐			3502.72		P	0.7
5	☐			6598.38		P	1.5
6	☐			13139.95		P	1.5
7	☐			25828.58		P	0.3
8	☐			527.79		P	6.0

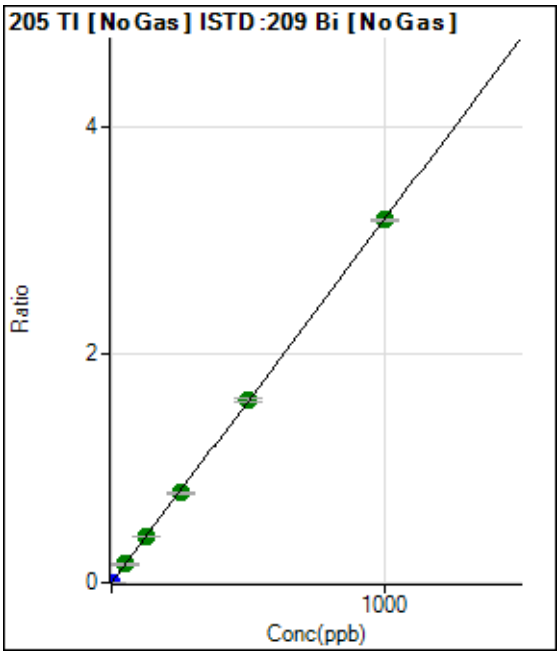


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	378.90	0.0000	P	9.1
2	☐	1.000	1.022	18387.57	0.0014	P	2.3
3	☐	50.000	49.097	870915.41	0.0652	P	1.3
4	☐	125.000	125.576	2198868.73	0.1667	A	1.2
5	☐	250.000	253.695	4390439.31	0.3368	A	2.2
6	☐	500.000	505.342	8583471.26	0.6708	A	1.7
7	☐	1000.000	996.378	16498236.97	1.3225	A	0.8
8	☐			1481.21	0.0001	P	6.1

y = 0.0013 * x + 2.8773E-005
R = 1.0000
DL = 0.005924
BEC = 0.02168

Weight: <None>
Min Conc: 0

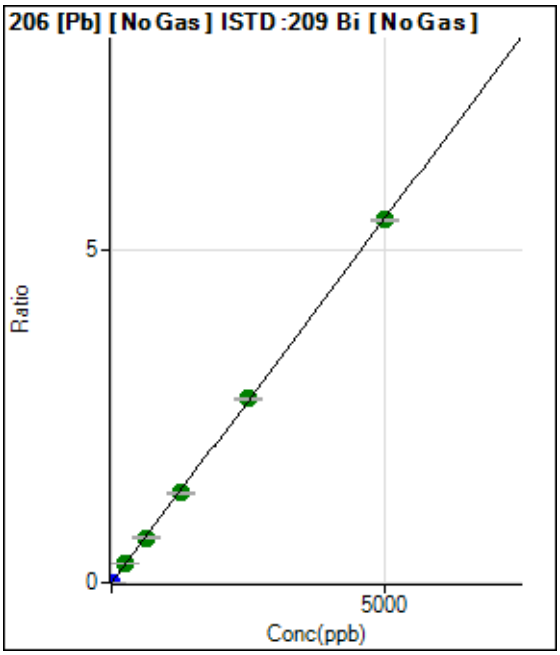
Reviewed By:Mohan
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Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	924.49	0.0001	P	6.8
2	☐	1.000	1.029	44425.90	0.0033	P	0.8
3	☐	50.000	50.454	2146047.26	0.1607	A	1.4
4	☐	125.000	125.413	5266100.86	0.3992	A	0.2
5	☐	250.000	246.593	10233455.05	0.7849	A	2.0
6	☐	500.000	504.412	20543266.50	1.6055	A	2.2
7	☐	1000.000	998.572	39649768.30	3.1782	A	0.7
8	☐			3630.55	0.0003	P	12.2

y = 0.0032 * x + 7.0190E-005
R = 1.0000
DL = 0.004501
BEC = 0.02205

Weight: <None>
Min Conc: 0

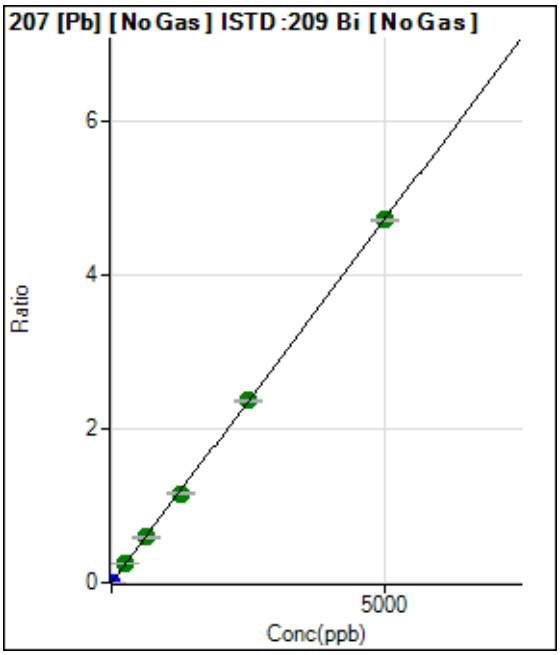


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2149.09	0.0002	P	4.1
2	☐	1.000	0.992	16577.36	0.0012	P	1.5
3	☐	250.000	256.478	3751403.03	0.2808	A	1.3
4	☐	625.000	619.413	8942510.35	0.6780	A	1.1
5	☐	1250.000	1241.290	17711257.79	1.3585	A	2.0
6	☐	2500.000	2531.068	35444687.25	2.7698	A	1.3
7	☐	5000.000	4987.018	68080247.88	5.4573	A	0.6
8	☐			14608.32	0.0013	P	2.0

y = 0.0011 * x + 1.6316E-004
R = 1.0000
DL = 0.01856
BEC = 0.1491

Weight: <None>
Min Conc: 0

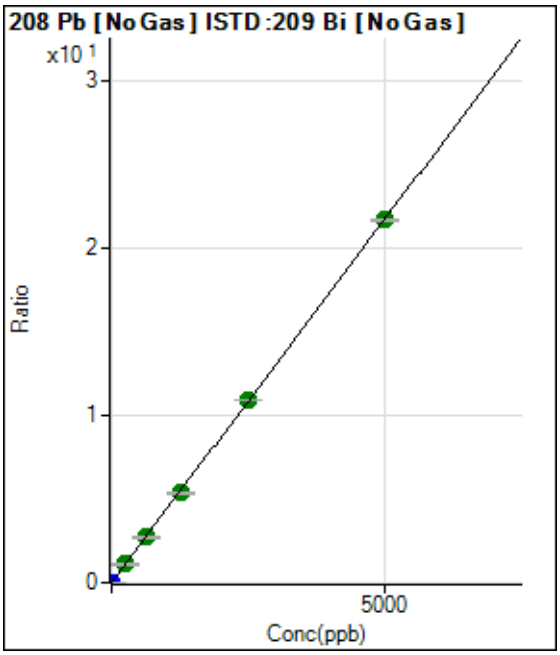
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1734.58	0.0001	P	4.7
2	☐	1.000	0.989	14113.35	0.0011	P	0.5
3	☐	250.000	253.715	3193850.86	0.2391	A	1.1
4	☐	625.000	622.848	7738943.15	0.5867	A	1.2
5	☐	1250.000	1229.328	15095505.61	1.1579	A	2.4
6	☐	2500.000	2514.433	30306275.94	2.3682	A	0.9
7	☐	5000.000	4998.034	58722289.68	4.7072	A	0.8
8	☐			12411.59	0.0011	P	4.1

y = 9.4178E-004 * x + 1.3168E-004
R = 1.0000
DL = 0.01967
BEC = 0.1398

Weight: <None>
Min Conc: 0

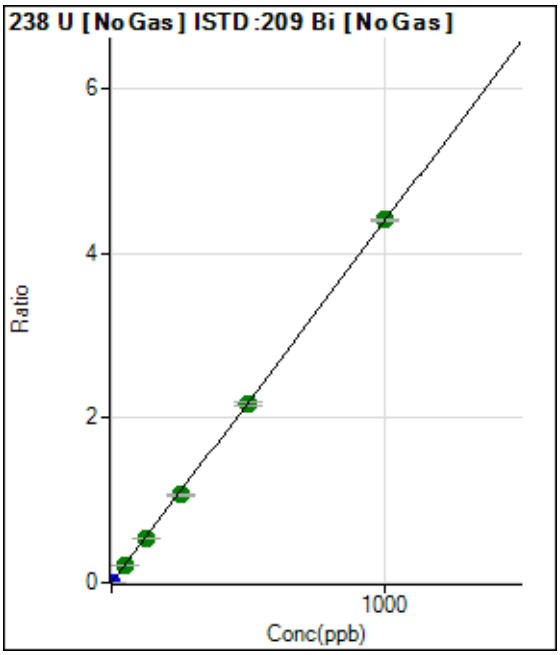


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8146.64	0.0006	P	2.5
2	☐	1.000	0.998	65729.19	0.0050	P	0.4
3	☐	250.000	252.313	14643378.98	1.0962	A	1.0
4	☐	625.000	623.682	35727693.22	2.7086	A	0.9
5	☐	1250.000	1233.854	69852444.24	5.3580	A	2.4
6	☐	2500.000	2515.575	139786392.0	10.9232	A	0.9
7	☐	5000.000	4996.298	270640306.5	21.6944	A	0.6
8	☐			57768.68	0.0053	P	3.9

y = 0.0043 * x + 6.1846E-004
R = 1.0000
DL = 0.01061
BEC = 0.1424

Weight: <None>
Min Conc: 0

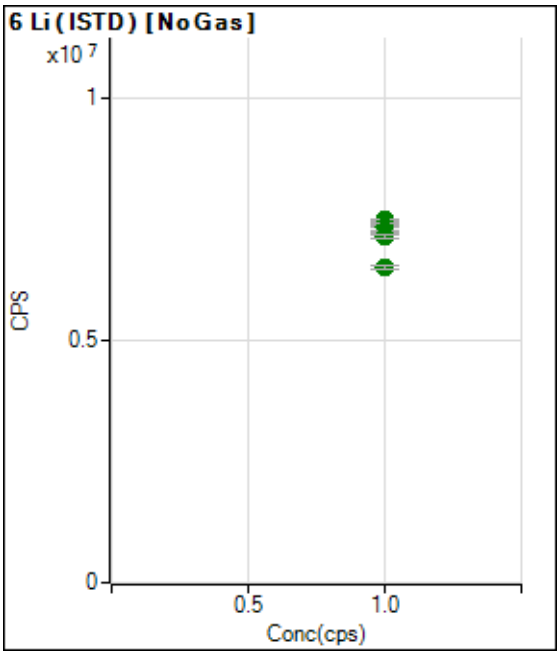
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0000	P	24.8
2	☐	1.000	0.965	56322.17	0.0042	P	0.7
3	☐	50.000	49.554	2901633.08	0.2172	A	0.7
4	☐	125.000	122.784	7098609.54	0.5382	A	1.2
5	☐	250.000	242.499	13858141.04	1.0629	A	2.0
6	☐	500.000	495.160	27770835.42	2.1703	A	2.0
7	☐	1000.000	1004.594	54930364.18	4.4031	A	0.7
8	☐			2419.15	0.0002	P	9.0

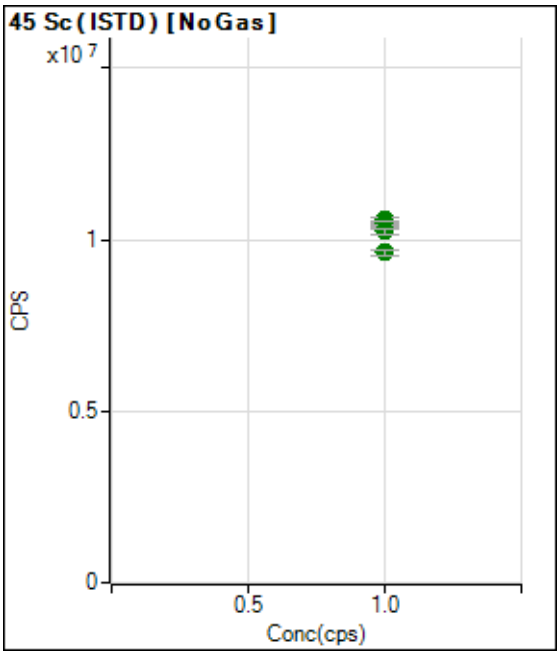
y = 0.0044 * x + 1.2491E-005
R = 1.0000
DL = 0.002124
BEC = 0.00285

Weight: <None>
Min Conc: 0

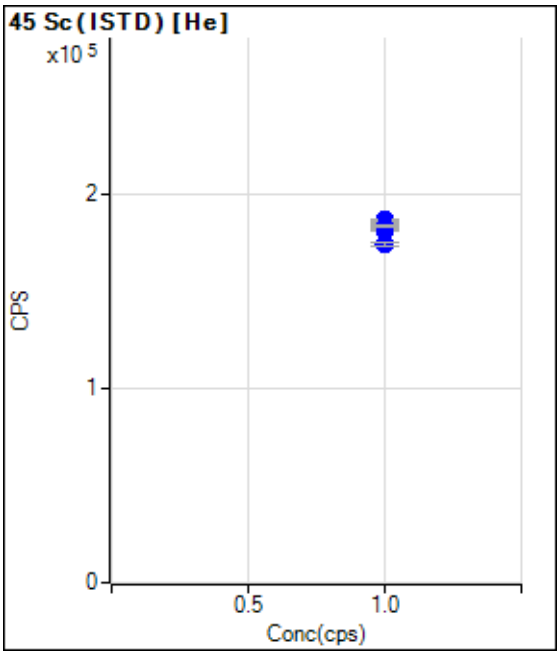


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7423441.25		A	1.3
2	☐	1.000		7477615.36		A	0.8
3	☐	1.000		7413901.76		A	2.1
4	☐	1.000		7417953.29		A	1.7
5	☐	1.000		7331348.65		A	2.1
6	☐	1.000		7234025.45		A	1.0
7	☐	1.000		7122742.22		A	1.2
8	☐	1.000		6504285.31		A	1.5

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On:2/12/2025 11:10:40 AM
Inst Id :P8

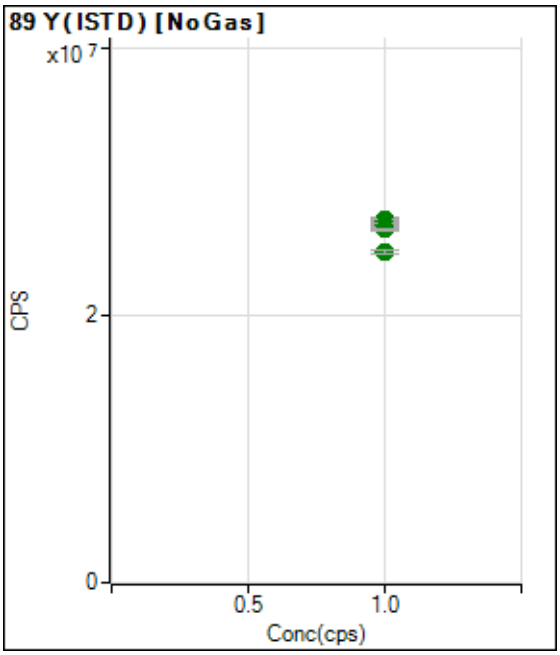


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10464420.81		A	0.7
2	☐	1.000		10402583.87		A	0.4
3	☐	1.000		10570873.94		A	1.1
4	☐	1.000		10458657.14		A	0.4
5	☐	1.000		10482539.64		A	1.2
6	☐	1.000		10267841.31		A	2.0
7	☐	1.000		10226560.54		A	1.4
8	☐	1.000		9618838.75		A	1.5

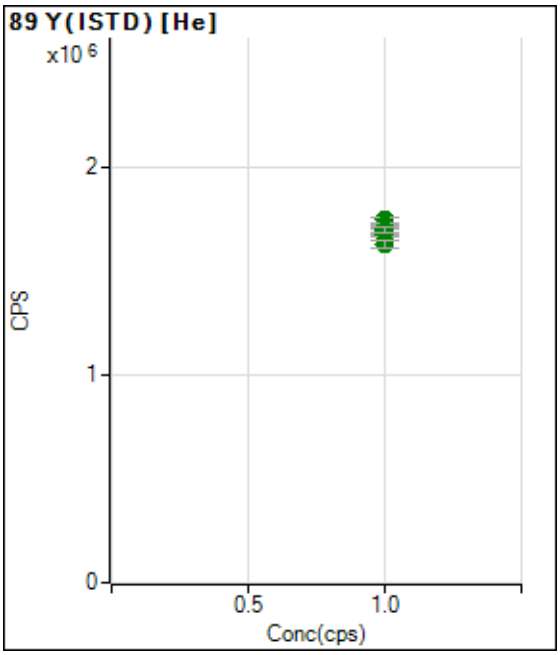


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		184856.14		P	1.5
2	☐	1.000		187166.28		P	0.8
3	☐	1.000		183381.76		P	0.5
4	☐	1.000		184827.42		P	0.7
5	☐	1.000		184491.19		P	2.0
6	☐	1.000		182010.14		P	0.7
7	☐	1.000		183845.21		P	0.3
8	☐	1.000		174968.61		P	1.1

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

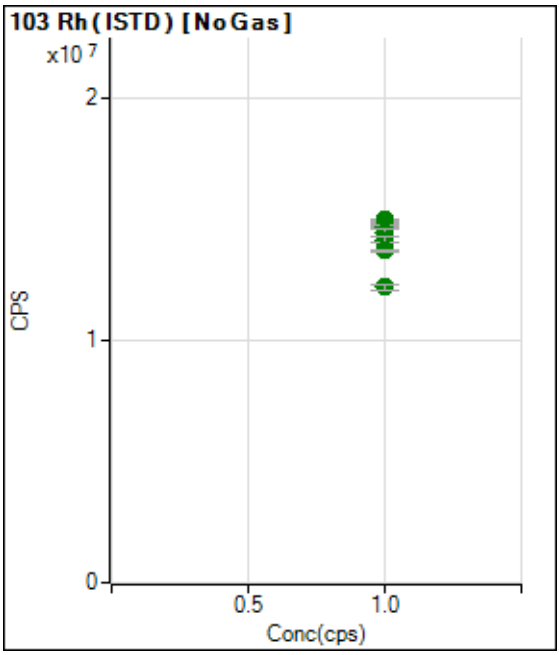


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		27049771.54		A	0.2
2		1.000		26941753.77		A	0.9
3		1.000		27185464.87		A	1.4
4		1.000		27118289.32		A	0.8
5		1.000		26909883.49		A	2.1
6		1.000		26830286.27		A	1.1
7		1.000		26462815.44		A	0.9
8		1.000		24838338.52		A	1.1

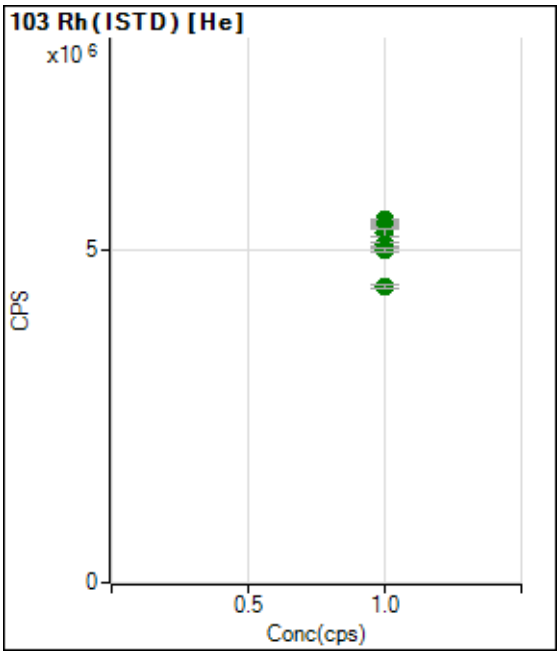


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1714175.79		A	0.8
2		1.000		1742951.64		A	1.3
3		1.000		1708394.14		A	1.4
4		1.000		1715072.35		A	0.6
5		1.000		1698412.36		A	3.4
6		1.000		1670128.03		A	0.9
7		1.000		1695056.34		A	1.4
8		1.000		1624114.92		A	2.4

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On:2/12/2025 11:10:40 AM
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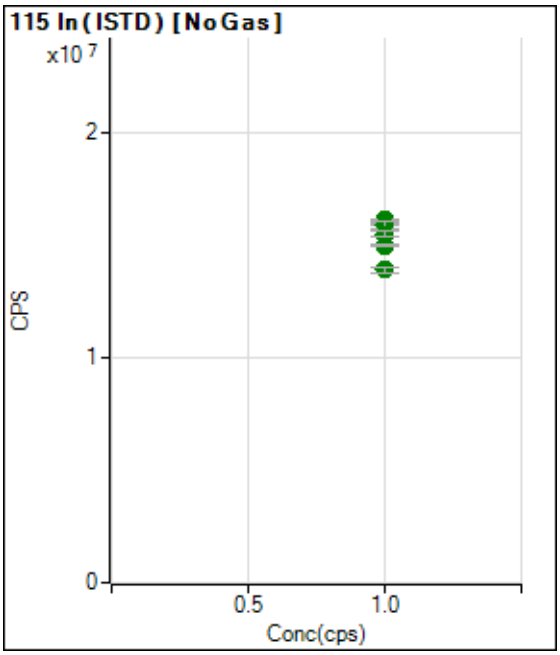


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1	☐	1.000		14734637.00		A	1.2
2	☐	1.000		14971739.50		A	0.3
3	☐	1.000		14808382.14		A	0.8
4	☐	1.000		14683971.45		A	1.1
5	☐	1.000		14422062.98		A	2.0
6	☐	1.000		14146720.90		A	2.0
7	☐	1.000		13695039.24		A	0.9
8	☐	1.000		12196135.93		A	1.7

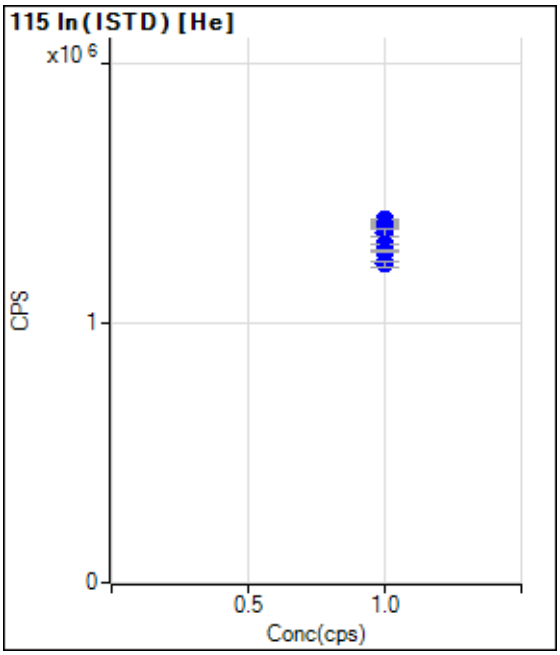


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5414031.86		A	0.9
2	☐	1.000		5440344.36		A	0.7
3	☐	1.000		5350975.03		A	0.6
4	☐	1.000		5313886.52		A	0.6
5	☐	1.000		5250853.19		A	2.2
6	☐	1.000		5075515.90		A	1.1
7	☐	1.000		4980942.39		A	1.3
8	☐	1.000		4445461.63		A	1.1

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On:2/12/2025 11:10:40 AM
Inst Id :P8

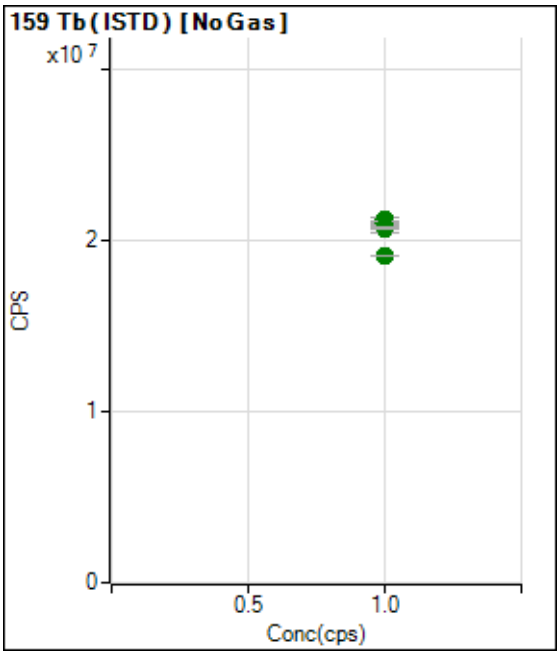


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16037263.07		A	0.3
2	☐	1.000		16147299.06		A	0.7
3	☐	1.000		16138883.73		A	0.9
4	☐	1.000		15937920.51		A	0.7
5	☐	1.000		15889066.42		A	2.1
6	☐	1.000		15514528.60		A	1.8
7	☐	1.000		15001307.48		A	0.6
8	☐	1.000		13929933.79		A	1.6

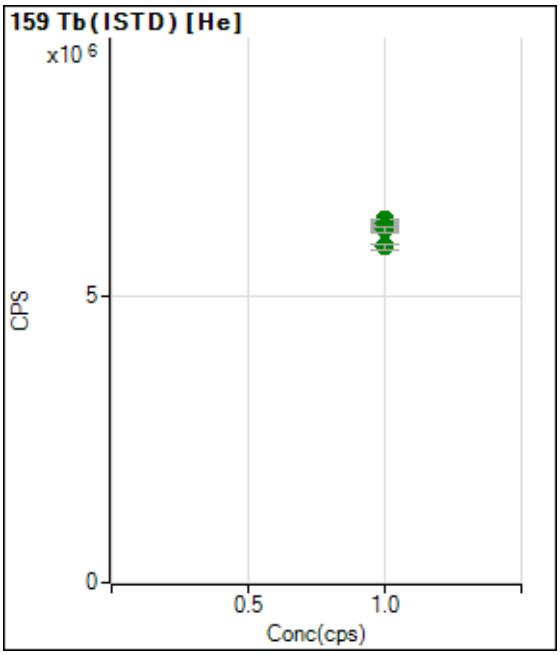


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	1.000		1398261.54		P	0.7
3	☐	1.000		1375348.97		P	0.6
4	☐	1.000		1365568.58		P	0.2
5	☐	1.000		1349042.93		P	2.7
6	☐	1.000		1306108.62		P	0.3
7	☐	1.000		1276745.53		P	0.4
8	☐	1.000		1227208.67		P	1.8

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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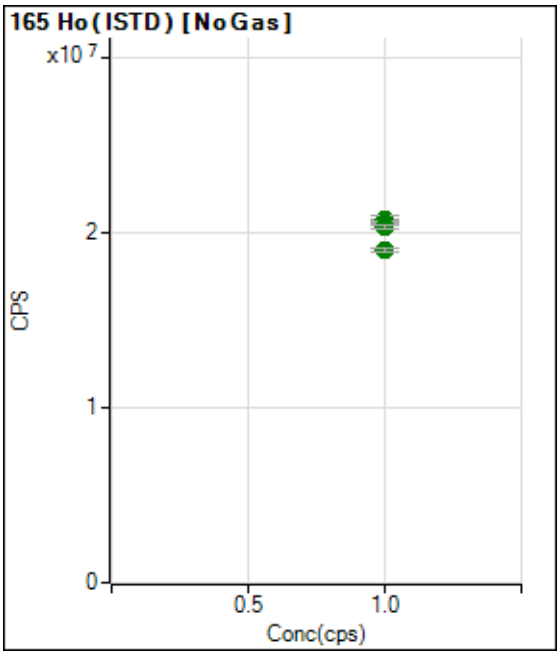


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20667778.17		A	1.4
2	☐	1.000		20907060.52		A	0.7
3	☐	1.000		21230676.63		A	1.1
4	☐	1.000		21088796.21		A	0.8
5	☐	1.000		21014332.47		A	1.6
6	☐	1.000		21157596.76		A	0.1
7	☐	1.000		20778610.11		A	0.7
8	☐	1.000		19114230.83		A	0.1

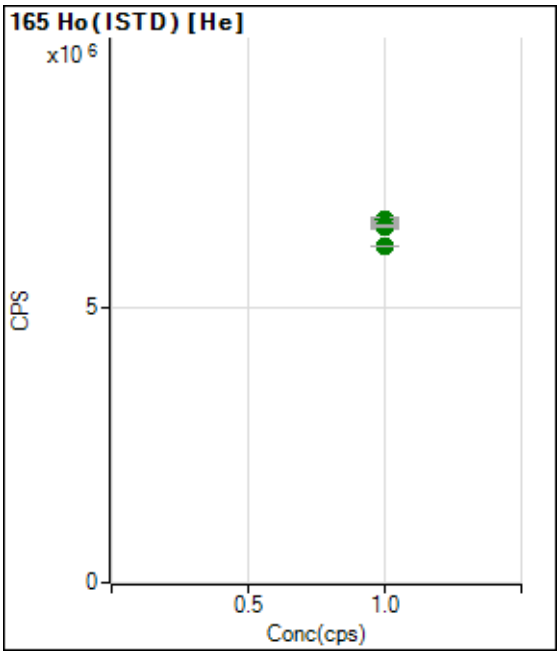


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6324544.28		A	0.3
2	☐	1.000		6272043.17		A	0.5
3	☐	1.000		6237170.18		A	0.4
4	☐	1.000		6241130.19		A	1.0
5	☐	1.000		6254895.67		A	2.9
6	☐	1.000		6191560.88		A	1.3
7	☐	1.000		6151420.25		A	1.3
8	☐	1.000		5858378.73		A	1.8

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On:2/12/2025 11:10:40 AM
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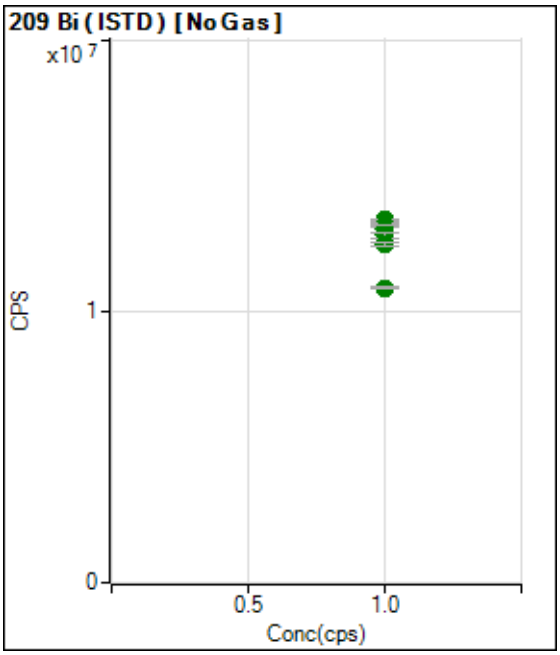


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20556050.94		A	0.9
2	☐	1.000		20696992.19		A	0.3
3	☐	1.000		20675908.02		A	0.6
4	☐	1.000		20629429.42		A	0.3
5	☐	1.000		20735622.33		A	2.2
6	☐	1.000		20600766.22		A	0.7
7	☐	1.000		20305066.09		A	0.9
8	☐	1.000		19042269.30		A	1.0

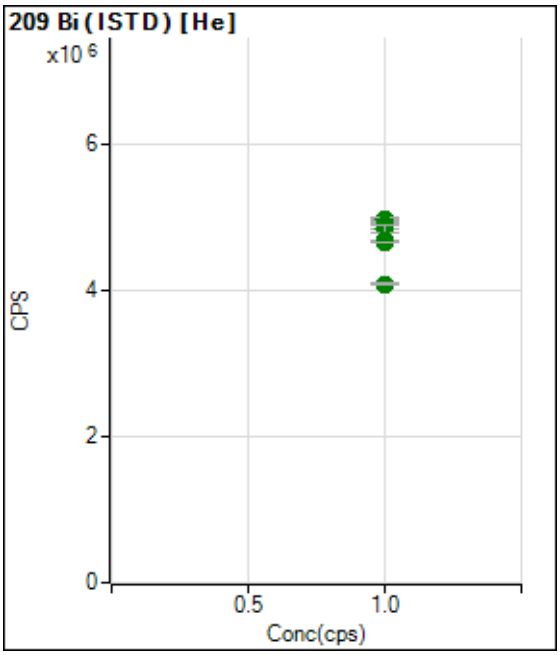


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6514911.64		A	1.0
2	☐	1.000		6552088.93		A	0.9
3	☐	1.000		6532102.61		A	0.7
4	☐	1.000		6576114.35		A	0.9
5	☐	1.000		6475222.33		A	2.1
6	☐	1.000		6457489.56		A	0.4
7	☐	1.000		6449639.21		A	0.6
8	☐	1.000		6103709.08		A	0.4

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13173314.94		A	0.7
2	☐	1.000		13274347.72		A	0.5
3	☐	1.000		13358852.16		A	0.3
4	☐	1.000		13190892.16		A	0.7
5	☐	1.000		13041023.84		A	1.9
6	☐	1.000		12798423.28		A	1.5
7	☐	1.000		12475585.37		A	0.9
8	☐	1.000		10847304.42		A	0.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4950087.91		A	0.8
2	☐	1.000		4968419.44		A	1.2
3	☐	1.000		4901413.89		A	0.1
4	☐	1.000		4844027.50		A	0.5
5	☐	1.000		4848751.70		A	2.1
6	☐	1.000		4674437.26		A	1.0
7	☐	1.000		4658149.07		A	0.4
8	☐	1.000		4090868.55		A	1.0

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8021125 MS.b
Acq. Date-Time	2025-02-11 11:22:52
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		33681	336808.90			0.576	5.000
24		317868	3178681.60			0.536	5.000
25		42868	428682.00			0.422	5.000
26		47889	478886.16			0.369	5.000
59		185789	1857886.03			0.885	5.000
113		22196	221964.29			0.425	5.000
115		292044	2920437.87			0.944	5.000
206		71039	710393.19			0.629	5.000
207		61658	616576.70			0.147	5.000
208		151245	1512454.00			1.139	5.000
220		1	5.60			27.808	

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	33985	33739	33573	33481	33626
24	319455	319239	318551	315819	316277
25	43132	42889	42923	42709	42689
26	48036	47949	48043	47636	47779
59	186794	183813	187922	184624	185790
113	22279	22315	22152	22100	22137
115	296208	290284	292469	292333	288926
206	71568	71184	71292	70628	70524
207	61722	61735	61715	61554	61563
208	152775	151737	150449	148645	152622

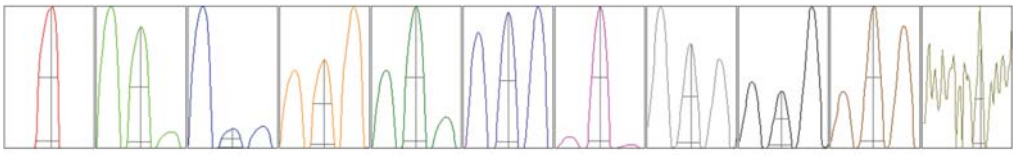
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	56451.76	9.10	8.90 - 9.10	
24	540315.86	24.00	23.90 - 24.10	
25	72844.30	25.00	24.90 - 25.10	
26	82942.97	26.00	25.90 - 26.10	
59	334772.90	59.00	58.90 - 59.10	
113	43756.33	113.05	112.90 - 113.10	
115	573082.19	115.05	114.90 - 115.10	
206	141412.16	206.00	205.90 - 206.10	
207	122171.00	206.95	206.90 - 207.10	
208	302103.53	207.95	207.90 - 208.10	
220	0.80	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.777	0.900	
24	0.63	0.787	0.900	
25	0.63	0.792	0.900	
26	0.62	0.788	0.900	
59	0.59	0.779	0.900	
113	0.52	0.733	0.900	
115	0.53	0.734	0.900	
206	0.50	0.778	0.900	
207	0.50	0.784	0.900	
208	0.50	0.791	0.900	
220	0.27	0.388		

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

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

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	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	170 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.0 mV	Analog HV	2179 V	Pulse HV	1089 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		32890	328904.85			0.370	
89		31748	317475.54			0.361	
205		36794	367944.69			0.422	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	32961	32954	32822	33005	32711
89	31847	31724	31819	31788	31559
205	36762	36981	36899	36755	36575

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	3.4 V

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	0.9959	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm		

EM

Discriminator	4.0 mV	Analog HV	2179 V	Pulse HV	1089 V

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.14	0.23	-0.08	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.02	-0.04	0.02	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	-0.02	-0.01	0.03	0.00	N/A	ppb
Cadmium	106-1	0.12	-0.12	0.00	0.00	N/A	ppb
Cadmium	111-1	0.01	-0.01	0.00	0.00	N/A	ppb
Calcium	43-1	0.00	-0.68	0.67	0.00	N/A	ppb
Calcium	44-1	0.40	-0.35	-0.06	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	0.03	0.00	-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	0.18	0.30	-0.48	0.00	N/A	ppb
Iron	56-2	-0.04	0.03	0.02	0.00	N/A	ppb
Iron	57-2	-0.11	-0.17	0.28	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.01	0.00	N/A	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.01	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	0.11	-0.84	0.73	0.00	N/A	ppb
Manganese	55-2	-0.02	0.00	0.02	0.00	N/A	ppb
Molybdenum	94-1	0.01	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	0.00	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	0.02	-0.02	0.00	N/A	ppb
Phosphorus	31-2	-17.01	-7.69	-9.67	-11.46		ppb
Potassium	39-2	1.78	-0.99	-0.80	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.17	0.02	0.14	0.00	N/A	ppb
Selenium	77-2	-0.31	0.62	-0.31	0.00	N/A	ppb
Selenium	78-2	0.00	-0.27	0.27	0.00	N/A	ppb
Silicon	28-1	-0.05	-0.21	0.26	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	1.79	0.33	-2.12	0.00	N/A	ppb
Strontium	86-1	-0.01	0.01	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-105.34	-141.26	-119.61	-122.07		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	0.00	0.00	0.00	0.00	N/A	ppb
Titanium	47-1	0.00	-0.04	0.04	0.00	N/A	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	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	0.08	-0.02	-0.06	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:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.64	19.93	18.09	18.89	5.00	ppb
Antimony	121-1	2.17	2.14	2.19	2.17	1.14	ppb
Arsenic	75-2	0.98	1.11	1.02	1.03	6.60	ppb
Barium	135-1	10.54	10.63	10.85	10.67	1.48	ppb
Barium	137-1	10.83	10.59	10.85	10.76	1.37	ppb
Beryllium	9-1	1.09	1.06	1.07	1.07	1.22	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	1.01	1.14	1.06	1.07	6.11	ppb
Cadmium	106-1	0.96	-0.37	0.84	0.47	154.54	ppb
Cadmium	111-1	1.12	1.02	1.13	1.09	5.37	ppb
Calcium	43-1	551.26	561.62	558.94	557.27	0.96	ppb
Calcium	44-1	546.24	556.45	548.15	550.28	0.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.08	2.10	2.04	2.07	1.49	ppb
Cobalt	59-2	1.12	1.12	1.16	1.14	2.10	ppb
Copper	63-2	2.23	2.24	2.29	2.25	1.45	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				101		%
Iron	54-2	56.02	57.30	56.90	56.74	1.16	ppb
Iron	56-2	55.85	55.21	55.19	55.42	0.68	ppb
Iron	57-2	55.31	56.12	53.32	54.91	2.62	ppb
Krypton	83-1						cps
Lead	206-1	0.97	1.00	1.00	0.99	1.70	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.98	0.99	0.99	0.99	0.55	ppb
Lead	208-1	0.99	1.00	1.00	1.00	0.42	ppb
Lithium	6-1				101		%
Magnesium	24-2	534.80	533.80	538.70	535.77	0.48	ppb
Manganese	55-2	1.07	1.00	1.05	1.04	3.70	ppb
Molybdenum	94-1	6.24	6.28	6.16	6.23	0.96	ppb
Molybdenum	95-1	5.20	5.16	5.14	5.17	0.64	ppb
Molybdenum	96-1	5.31	5.40	5.25	5.32	1.39	ppb
Molybdenum	97-1	5.31	5.25	5.27	5.28	0.59	ppb
Molybdenum	98-1	5.16	5.21	5.16	5.18	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.06	1.10	1.10	1.09	2.20	ppb
Phosphorus	31-2	5.65	6.05	22.68	11.46	84.83	ppb
Potassium	39-2	515.69	505.55	514.61	511.95	1.09	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	5.95	5.86	5.26	5.69	6.55	ppb
Selenium	77-2	6.10	3.39	5.09	4.86	28.26	ppb
Selenium	78-2	4.02	5.68	6.05	5.25	20.61	ppb
Silicon	28-1	6.57	6.39	6.16	6.38	3.21	ppb
Silver	107-1	1.03	1.05	1.07	1.05	1.92	ppb
Silver	109-1	1.06	1.05	1.09	1.07	1.91	ppb
Sodium	23-2	545.49	534.97	545.32	541.93	1.11	ppb
Strontium	86-1	1.07	1.03	1.02	1.04	2.69	ppb
Strontium	88-1	1.06	1.05	1.05	1.05	0.59	ppb
Sulfur	34-1	110.19	141.26	114.77	122.07	13.74	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	1.02	1.04	1.00	1.02	2.36	ppb
Thallium	205-1	1.02	1.04	1.03	1.03	0.78	ppb
Tin	118-1	5.37	5.38	5.47	5.41	1.03	ppb
Titanium	47-1	5.32	5.23	5.32	5.29	0.91	ppb
Uranium	238-1	0.96	0.96	0.97	0.97	0.71	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.34	5.20	5.32	5.29	1.41	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	5.79	5.48	5.89	5.72	3.76	ppb
Zirconium	90-1	1.03	1.02	1.03	1.03	0.70	ppb
Zirconium	91-1	1.02	1.02	0.98	1.01	2.24	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1000.11	1004.42	1004.44	1002.99	0.25	ppb
Antimony	121-1	50.05	50.52	51.51	50.70	1.47	ppb
Arsenic	75-2	50.55	51.41	51.85	51.27	1.28	ppb
Barium	135-1	249.33	251.94	255.10	252.12	1.15	ppb
Barium	137-1	253.97	258.84	258.70	257.17	1.08	ppb
Beryllium	9-1	50.34	52.78	51.01	51.38	2.46	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	51.10	53.11	53.32	52.51	2.34	ppb
Cadmium	106-1	52.75	52.71	54.41	53.29	1.81	ppb
Cadmium	111-1	51.10	52.31	52.78	52.06	1.67	ppb
Calcium	43-1	5157.25	5231.17	5324.44	5237.62	1.60	ppb
Calcium	44-1	5175.53	5200.27	5337.31	5237.70	1.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	50.15	50.53	50.90	50.53	0.74	ppb
Cobalt	59-2	52.32	53.14	52.76	52.74	0.78	ppb
Copper	63-2	543.79	553.81	552.39	550.00	0.99	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				101		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	2686.28	2687.32	2715.83	2696.48	0.62	ppb
Iron	56-2	2668.67	2710.60	2683.97	2687.74	0.79	ppb
Iron	57-2	2640.37	2665.37	2654.10	2653.28	0.47	ppb
Krypton	83-1						cps
Lead	206-1	252.95	259.35	257.13	256.48	1.27	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	255.35	255.37	250.43	253.71	1.12	ppb
Lead	208-1	249.78	254.64	252.51	252.31	0.96	ppb
Lithium	6-1				100		%
Magnesium	24-2	5263.02	5363.97	5411.07	5346.02	1.41	ppb
Manganese	55-2	511.92	514.75	516.49	514.38	0.45	ppb
Molybdenum	94-1	490.82	518.46	503.81	504.36	2.74	ppb
Molybdenum	95-1	497.38	510.59	500.51	502.82	1.37	ppb
Molybdenum	96-1	498.69	508.80	511.03	506.17	1.30	ppb
Molybdenum	97-1	500.99	517.68	513.70	510.79	1.71	ppb
Molybdenum	98-1	490.85	507.33	509.14	502.44	2.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.99	52.78	52.47	52.41	0.76	ppb
Phosphorus	31-2	924.57	1041.83	982.10	982.83	5.97	ppb
Potassium	39-2	2492.98	2521.59	2533.38	2515.99	0.83	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	49.15	52.40	52.51	51.35	3.72	ppb
Selenium	77-2	48.28	57.51	53.46	53.08	8.71	ppb
Selenium	78-2	52.26	57.78	51.38	53.81	6.44	ppb
Silicon	28-1	50.54	50.81	51.89	51.08	1.40	ppb
Silver	107-1	51.25	52.03	52.75	52.01	1.44	ppb
Silver	109-1	51.07	52.72	52.65	52.15	1.79	ppb
Sodium	23-2	5285.78	5437.97	5462.77	5395.51	1.78	ppb
Strontium	86-1	49.44	50.44	50.47	50.12	1.17	ppb
Strontium	88-1	50.19	51.44	51.42	51.02	1.40	ppb
Sulfur	34-1	1170.00	1116.80	1271.62	1186.14	6.63	ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	48.36	49.42	49.51	49.10	1.31	ppb
Thallium	205-1	50.09	50.02	51.25	50.45	1.37	ppb
Tin	118-1	50.13	51.51	51.82	51.15	1.76	ppb
Titanium	47-1	505.16	509.07	523.08	512.44	1.84	ppb
Uranium	238-1	49.90	49.24	49.53	49.55	0.66	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	50.89	51.04	50.36	50.77	0.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				100		%
Zinc	66-2	525.46	528.11	534.71	529.43	0.90	ppb
Zirconium	90-1	49.85	51.84	51.31	51.00	2.02	ppb
Zirconium	91-1	47.83	50.25	49.83	49.30	2.63	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2452.01	2482.76	2445.74	2460.17	0.81	ppb
Antimony	121-1	128.58	129.34	129.06	128.99	0.30	ppb
Arsenic	75-2	125.33	125.43	125.25	125.34	0.07	ppb
Barium	135-1	641.19	649.16	660.22	650.19	1.47	ppb
Barium	137-1	626.80	656.04	638.83	640.56	2.29	ppb
Beryllium	9-1	123.17	125.60	128.38	125.72	2.07	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	130.89	132.33	130.70	131.31	0.68	ppb
Cadmium	106-1	128.74	129.94	131.91	130.20	1.23	ppb
Cadmium	111-1	125.87	129.90	129.30	128.36	1.69	ppb
Calcium	43-1	12871.82	12875.29	13098.45	12948.52	1.00	ppb
Calcium	44-1	12892.34	12882.67	12877.75	12884.25	0.06	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	123.46	124.13	123.04	123.54	0.45	ppb
Cobalt	59-2	127.17	128.71	126.21	127.36	0.99	ppb
Copper	63-2	1313.74	1320.59	1292.85	1309.06	1.10	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				100		%
Holmium	165-2				101		%
Indium	115-1				99		%
Indium	115-2				98		%
Iron	54-2	6528.84	6646.90	6518.82	6564.85	1.09	ppb
Iron	56-2	6543.12	6597.46	6486.57	6542.38	0.85	ppb
Iron	57-2	6446.64	6535.56	6462.37	6481.52	0.73	ppb
Krypton	83-1						cps
Lead	206-1	613.17	618.22	626.85	619.41	1.12	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	619.82	617.05	631.68	622.85	1.25	ppb
Lead	208-1	619.77	621.16	630.11	623.68	0.90	ppb
Lithium	6-1				100		%
Magnesium	24-2	12857.97	13045.94	12972.29	12958.73	0.73	ppb
Manganese	55-2	1291.88	1310.64	1264.34	1288.95	1.81	ppb
Molybdenum	94-1	1232.34	1235.58	1234.14	1234.02	0.13	ppb
Molybdenum	95-1	1243.85	1262.15	1239.62	1248.54	0.96	ppb
Molybdenum	96-1	1246.51	1254.70	1239.64	1246.95	0.60	ppb
Molybdenum	97-1	1243.74	1262.09	1234.07	1246.64	1.14	ppb
Molybdenum	98-1	1239.97	1249.14	1254.15	1247.75	0.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	126.80	128.56	126.45	127.27	0.89	ppb
Phosphorus	31-2	2503.53	2512.45	2525.00	2513.66	0.43	ppb
Potassium	39-2	6140.98	6162.98	6087.62	6130.53	0.63	ppb
Rhodium	103-1				100		%
Rhodium	103-2				98		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	125.09	125.91	125.72	125.57	0.34	ppb
Selenium	77-2	129.50	127.73	134.38	130.54	2.64	ppb
Selenium	78-2	125.80	135.58	131.56	130.98	3.75	ppb
Silicon	28-1	130.02	126.49	129.88	128.80	1.55	ppb
Silver	107-1	131.64	132.04	132.67	132.12	0.40	ppb
Silver	109-1	130.81	133.38	133.16	132.45	1.07	ppb
Sodium	23-2	13002.08	13021.11	13001.39	13008.19	0.09	ppb
Strontium	86-1	121.73	124.39	124.03	123.38	1.17	ppb
Strontium	88-1	123.43	126.02	126.02	125.16	1.20	ppb
Sulfur	34-1	2686.04	3018.98	2653.91	2786.31	7.25	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	123.82	126.09	126.81	125.58	1.24	ppb
Thallium	205-1	125.69	125.07	125.48	125.41	0.25	ppb
Tin	118-1	129.34	128.92	128.73	128.99	0.24	ppb
Titanium	47-1	1258.34	1262.23	1279.41	1266.66	0.88	ppb
Uranium	238-1	121.27	122.79	124.29	122.78	1.23	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	123.67	124.14	124.24	124.02	0.25	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	1273.20	1291.67	1277.77	1280.88	0.75	ppb
Zirconium	90-1	124.42	127.43	124.78	125.54	1.31	ppb
Zirconium	91-1	120.11	122.39	120.86	121.12	0.96	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4976.89	5023.54	4827.55	4942.66	2.07	ppb
Antimony	121-1	248.56	257.69	256.15	254.13	1.92	ppb
Arsenic	75-2	253.94	265.65	243.51	254.37	4.35	ppb
Barium	135-1	1243.70	1289.50	1278.45	1270.55	1.88	ppb
Barium	137-1	1227.65	1290.54	1271.61	1263.27	2.55	ppb
Beryllium	9-1	246.82	254.51	258.76	253.37	2.39	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	250.61	265.10	255.70	257.13	2.86	ppb
Cadmium	106-1	248.19	261.43	255.69	255.10	2.60	ppb
Cadmium	111-1	244.72	257.77	253.71	252.06	2.65	ppb
Calcium	43-1	25182.11	26272.37	26140.66	25865.05	2.30	ppb
Calcium	44-1	24569.66	25761.95	25713.26	25348.29	2.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	243.84	248.96	238.22	243.67	2.20	ppb
Cobalt	59-2	259.44	261.13	251.08	257.22	2.09	ppb
Copper	63-2	2591.07	2685.56	2541.84	2606.16	2.80	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				101		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	54-2	13441.49	13415.10	13010.04	13288.87	1.82	ppb
Iron	56-2	12987.00	13323.70	12647.90	12986.20	2.60	ppb
Iron	57-2	12736.75	13075.28	12563.14	12791.72	2.04	ppb
Krypton	83-1						cps
Lead	206-1	1214.61	1246.17	1263.09	1241.29	1.98	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1195.71	1241.10	1251.17	1229.33	2.40	ppb
Lead	208-1	1200.16	1246.56	1254.84	1233.85	2.39	ppb
Lithium	6-1				99		%
Magnesium	24-2	26315.73	26400.75	25122.30	25946.26	2.76	ppb
Manganese	55-2	2554.89	2593.99	2514.85	2554.58	1.55	ppb
Molybdenum	94-1	2415.32	2515.21	2513.45	2481.33	2.30	ppb
Molybdenum	95-1	2427.42	2527.43	2507.75	2487.54	2.13	ppb
Molybdenum	96-1	2426.05	2540.19	2521.78	2496.01	2.46	ppb
Molybdenum	97-1	2423.84	2506.70	2540.83	2490.46	2.42	ppb
Molybdenum	98-1	2419.32	2535.62	2548.04	2500.99	2.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	250.16	256.81	244.69	250.55	2.42	ppb
Phosphorus	31-2	4992.78	5158.69	4782.24	4977.90	3.79	ppb
Potassium	39-2	12508.10	12857.28	12240.38	12535.25	2.47	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	245.18	262.84	257.09	255.04	3.53	ppb
Selenium	77-2	278.17	287.32	227.61	264.37	12.16	ppb
Selenium	78-2	262.02	265.48	258.24	261.91	1.38	ppb
Silicon	28-1	245.83	252.27	260.94	253.01	3.00	ppb
Silver	107-1	255.07	266.16	260.96	260.73	2.13	ppb
Silver	109-1	252.96	263.78	259.59	258.78	2.11	ppb
Sodium	23-2	26488.44	26881.63	25428.29	26266.12	2.86	ppb
Strontium	86-1	238.03	247.47	250.86	245.45	2.71	ppb
Strontium	88-1	244.86	253.91	253.49	250.75	2.04	ppb
Sulfur	34-1	4706.98	5102.59	5344.96	5051.51	6.38	ppb
Terbium	159-1				102		%
Terbium	159-2				99		%
Thallium	203-1	247.15	257.06	256.88	253.69	2.24	ppb
Thallium	205-1	240.95	249.27	249.56	246.59	1.98	ppb
Tin	118-1	251.39	256.84	258.22	255.48	1.41	ppb
Titanium	47-1	2434.28	2489.18	2460.55	2461.34	1.12	ppb
Uranium	238-1	237.15	246.29	244.06	242.50	1.96	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	248.07	252.56	239.59	246.74	2.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				99		%
Zinc	66-2	2535.77	2590.85	2477.30	2534.64	2.24	ppb
Zirconium	90-1	244.22	254.34	253.44	250.67	2.23	ppb
Zirconium	91-1	244.60	251.55	255.77	250.64	2.25	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9883.79	9794.63	9810.11	9829.51	0.48	ppb
Antimony	121-1	499.07	505.10	506.78	503.65	0.81	ppb
Arsenic	75-2	500.30	517.61	512.43	510.11	1.74	ppb
Barium	135-1	2513.58	2523.15	2511.77	2516.17	0.24	ppb
Barium	137-1	2516.93	2489.70	2498.67	2501.77	0.55	ppb
Beryllium	9-1	507.98	500.56	508.66	505.73	0.89	ppb
Bismuth	209-1				97		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	503.90	500.35	508.18	504.14	0.78	ppb
Cadmium	106-1	503.93	506.41	501.56	503.97	0.48	ppb
Cadmium	111-1	500.58	522.01	500.92	507.83	2.42	ppb
Calcium	43-1	51417.80	54154.09	52864.28	52812.05	2.59	ppb
Calcium	44-1	51209.24	52209.30	52725.49	52048.01	1.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	517.83	503.85	497.25	506.31	2.08	ppb
Cobalt	59-2	516.27	512.29	518.08	515.54	0.57	ppb
Copper	63-2	5166.74	5101.16	5090.98	5119.63	0.80	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				100		%
Holmium	165-2				99		%
Indium	115-1				97		%
Indium	115-2				94		%
Iron	54-2	27081.10	26348.20	26408.56	26612.62	1.53	ppb
Iron	56-2	26194.12	26000.63	25630.57	25941.77	1.10	ppb
Iron	57-2	26721.47	26878.62	26460.78	26686.96	0.79	ppb
Krypton	83-1						cps
Lead	206-1	2503.78	2568.80	2520.62	2531.07	1.33	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2502.93	2541.56	2498.81	2514.43	0.94	ppb
Lead	208-1	2500.96	2542.70	2503.06	2515.58	0.93	ppb
Lithium	6-1				97		%
Magnesium	24-2	51355.01	50925.34	51245.92	51175.42	0.44	ppb
Manganese	55-2	5131.32	5058.12	4965.43	5051.62	1.65	ppb
Molybdenum	94-1	4985.02	5068.08	5029.78	5027.63	0.83	ppb
Molybdenum	95-1	4947.27	5041.60	5049.20	5012.69	1.13	ppb
Molybdenum	96-1	4937.70	5019.56	5069.65	5008.97	1.33	ppb
Molybdenum	97-1	4938.52	5016.56	4982.99	4979.36	0.79	ppb
Molybdenum	98-1	5018.96	5069.36	4993.18	5027.17	0.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	495.33	495.81	492.42	494.52	0.37	ppb
Phosphorus	31-2	10353.82	10324.76	10295.48	10324.69	0.28	ppb
Potassium	39-2	25511.32	24922.23	25085.69	25173.08	1.21	ppb
Rhodium	103-1				96		%
Rhodium	103-2				94		%
Scandium	45-1				98		%
Scandium	45-2				98		%
Selenium	82-1	494.54	511.98	495.99	500.84	1.93	ppb
Selenium	77-2	509.92	516.16	513.18	513.09	0.61	ppb
Selenium	78-2	499.41	495.24	515.83	503.49	2.16	ppb
Silicon	28-1	494.84	525.63	517.24	512.57	3.11	ppb
Silver	107-1	501.21	507.30	511.39	506.63	1.01	ppb
Silver	109-1	498.69	509.69	507.75	505.38	1.16	ppb
Sodium	23-2	53437.00	52517.32	52924.99	52959.77	0.87	ppb
Strontium	86-1	497.27	512.31	505.14	504.91	1.49	ppb
Strontium	88-1	492.20	501.31	500.62	498.04	1.02	ppb
Sulfur	34-1	9939.85	10748.57	10209.22	10299.22	4.00	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	495.69	512.45	507.89	505.34	1.72	ppb
Thallium	205-1	493.47	515.22	504.54	504.41	2.16	ppb
Tin	118-1	496.15	501.81	499.13	499.03	0.57	ppb
Titanium	47-1	4998.97	5118.22	5058.09	5058.43	1.18	ppb
Uranium	238-1	488.89	506.71	489.88	495.16	2.02	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	504.97	495.01	493.54	497.84	1.25	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				97		%
Zinc	66-2	5185.91	5191.04	5191.76	5189.57	0.06	ppb
Zirconium	90-1	497.78	506.39	514.90	506.36	1.69	ppb
Zirconium	91-1	493.87	503.72	516.94	504.84	2.29	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20040.16	20199.80	19592.17	19944.05	1.58	ppb
Antimony	121-1	996.63	997.03	996.16	996.61	0.04	ppb
Arsenic	75-2	981.78	1007.52	991.94	993.75	1.30	ppb
Barium	135-1	4996.89	4957.10	4996.59	4983.52	0.46	ppb
Barium	137-1	5059.63	4975.99	4944.87	4993.49	1.19	ppb
Beryllium	9-1	998.40	992.81	997.19	996.13	0.29	ppb
Bismuth	209-1				95		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	992.14	1002.25	991.31	995.23	0.61	ppb
Cadmium	106-1	996.24	1002.23	989.31	995.93	0.65	ppb
Cadmium	111-1	995.79	994.87	994.47	995.04	0.07	ppb
Calcium	43-1	102320.07	105137.98	101269.39	102909.15	1.94	ppb
Calcium	44-1	102047.33	103629.06	101377.68	102351.36	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1004.68	996.88	994.19	998.58	0.55	ppb
Cobalt	59-2	994.35	980.75	994.88	989.99	0.81	ppb
Copper	63-2	9997.46	9861.91	9851.93	9903.77	0.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				99		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	51723.88	51963.26	51592.29	51759.81	0.36	ppb
Iron	56-2	50852.48	50551.90	50656.01	50686.80	0.30	ppb
Iron	57-2	51801.28	51429.18	52683.53	51971.33	1.24	ppb
Krypton	83-1						cps
Lead	206-1	4993.66	4951.94	5015.45	4987.02	0.65	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5034.46	4955.81	5003.84	4998.03	0.79	ppb
Lead	208-1	5012.52	4963.14	5013.24	4996.30	0.57	ppb
Lithium	6-1				96		%
Magnesium	24-2	100216.27	99523.94	100694.75	100144.98	0.59	ppb
Manganese	55-2	9980.64	9916.80	9967.43	9954.96	0.34	ppb
Molybdenum	94-1	9832.46	10076.92	10068.52	9992.63	1.39	ppb
Molybdenum	95-1	9832.32	10057.16	10100.96	9996.81	1.44	ppb
Molybdenum	96-1	9778.17	10042.93	10168.66	9996.59	1.99	ppb
Molybdenum	97-1	9824.77	10061.13	10151.87	10012.59	1.69	ppb
Molybdenum	98-1	9864.05	10064.97	10029.97	9986.33	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1013.46	1002.59	990.55	1002.20	1.14	ppb
Phosphorus	31-2	19938.05	19957.51	19631.43	19842.33	0.92	ppb
Potassium	39-2	48504.25	48818.05	47980.99	48434.43	0.87	ppb
Rhodium	103-1				93		%
Rhodium	103-2				92		%
Scandium	45-1				98		%
Scandium	45-2				99		%
Selenium	82-1	981.40	1007.40	1005.74	998.18	1.46	ppb
Selenium	77-2	1008.55	962.83	995.68	989.02	2.38	ppb
Selenium	78-2	982.07	996.32	1004.62	994.34	1.15	ppb
Silicon	28-1	984.63	1009.92	982.86	992.47	1.53	ppb
Silver	107-1	1000.56	990.85	987.62	993.01	0.68	ppb
Silver	109-1	989.94	1003.64	988.66	994.08	0.84	ppb
Sodium	23-2	103396.66	103579.29	103325.04	103433.66	0.13	ppb
Strontium	86-1	999.26	997.18	1000.20	998.88	0.15	ppb
Strontium	88-1	995.67	1007.02	999.48	1000.72	0.58	ppb
Sulfur	34-1	19857.95	20140.36	19378.96	19792.42	1.94	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	999.10	987.27	1002.77	996.38	0.81	ppb
Thallium	205-1	993.21	996.06	1006.44	998.57	0.70	ppb
Tin	118-1	996.36	1006.89	992.42	998.56	0.75	ppb
Titanium	47-1	10020.64	10077.57	9835.04	9977.75	1.27	ppb
Uranium	238-1	1000.74	999.94	1013.11	1004.59	0.74	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1008.13	1012.17	985.64	1001.98	1.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				99		%
Zinc	66-2	9930.79	9952.97	9789.91	9891.22	0.89	ppb
Zirconium	90-1	987.30	1000.81	1001.50	996.54	0.80	ppb
Zirconium	91-1	984.69	996.58	1012.55	997.94	1.40	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100001.44	99145.65	100949.12	100032.07	0.90	ppb
Antimony	121-1	0.92	0.88	0.86	0.89	3.02	ppb
Arsenic	75-2	0.47	0.57	0.59	0.54	12.16	ppb
Barium	135-1	2.03	2.01	1.93	1.99	2.45	ppb
Barium	137-1	2.07	1.98	1.98	2.01	2.69	ppb
Beryllium	9-1	0.39	0.32	0.31	0.34	12.43	ppb
Bismuth	209-1				82		%
Bismuth	209-2				83		%
Bromine	81-1						cps
Cadmium	108-1	0.92	0.93	0.59	0.81	23.82	ppb
Cadmium	106-1	1.13	0.53	0.11	0.59	87.38	ppb
Cadmium	111-1	0.26	0.17	0.15	0.19	30.09	ppb
Calcium	43-1	496458.64	491689.72	509091.84	499080.07	1.80	ppb
Calcium	44-1	500231.92	489395.68	508258.84	499295.48	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.15	3.02	3.11	3.09	2.07	ppb
Cobalt	59-2	2.11	2.16	2.18	2.15	1.80	ppb
Copper	63-2	1.74	1.82	1.72	1.76	3.02	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				93		%
Holmium	165-2				94		%
Indium	115-1				87		%
Indium	115-2				89		%
Iron	54-2	247511.87	247946.59	252854.03	249437.49	1.19	ppb
Iron	56-2	249835.80	251502.37	247866.72	249734.97	0.73	ppb
Iron	57-2	249954.84	245133.83	253156.72	249415.13	1.62	ppb
Krypton	83-1						cps
Lead	206-1	1.10	1.09	1.05	1.08	2.31	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.11	1.10	1.02	1.08	4.63	ppb
Lead	208-1	1.13	1.10	1.03	1.08	4.43	ppb
Lithium	6-1				88		%
Magnesium	24-2	498044.63	499922.23	501406.70	499791.18	0.34	ppb
Manganese	55-2	4.48	4.67	4.71	4.62	2.69	ppb
Molybdenum	94-1	7.41	7.49	7.54	7.48	0.87	ppb
Molybdenum	95-1	5.32	5.20	5.39	5.30	1.83	ppb
Molybdenum	96-1	5.49	5.67	5.66	5.61	1.73	ppb
Molybdenum	97-1	5.24	5.35	5.31	5.30	1.05	ppb
Molybdenum	98-1	5.18	5.18	5.23	5.20	0.56	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.45	3.55	3.71	3.57	3.66	ppb
Phosphorus	31-2	-3.91	-7.46	-15.54	-8.97		ppb
Potassium	39-2	246285.44	247204.60	257400.49	250296.85	2.46	ppb
Rhodium	103-1				83		%
Rhodium	103-2				82		%
Scandium	45-1				92		%
Scandium	45-2				95		%
Selenium	82-1	0.03	-0.12	0.11	0.01	1565.73	ppb
Selenium	77-2	2.57	1.64	-0.31	1.30	112.87	ppb
Selenium	78-2	1.70	1.16	0.32	1.06	65.72	ppb
Silicon	28-1	18.54	16.06	16.86	17.15	7.37	ppb
Silver	107-1	0.18	0.18	0.17	0.18	2.86	ppb
Silver	109-1	0.20	0.18	0.16	0.18	8.87	ppb
Sodium	23-2	493861.44	497536.67	505413.75	498937.28	1.18	ppb
Strontium	86-1	3.15	3.04	3.11	3.10	1.79	ppb
Strontium	88-1	3.09	3.08	3.13	3.10	0.78	ppb
Sulfur	34-1	-151.56	-325.66	-49.80	-175.67		ppb
Terbium	159-1				92		%
Terbium	159-2				93		%
Thallium	203-1	0.08	0.09	0.07	0.08	7.75	ppb
Thallium	205-1	0.10	0.08	0.07	0.08	15.49	ppb
Tin	118-1	0.11	0.10	0.07	0.09	26.00	ppb
Titanium	47-1	1.61	1.72	1.75	1.69	4.42	ppb
Uranium	238-1	0.05	0.05	0.04	0.05	9.57	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.28	0.31	0.30	0.30	5.80	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				92		%
Yttrium	89-2				95		%
Zinc	66-2	5.06	5.40	5.65	5.37	5.55	ppb
Zirconium	90-1	1.69	1.70	1.69	1.69	0.19	ppb
Zirconium	91-1	1.69	1.66	1.68	1.68	0.94	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	474.38	474.26	479.22	475.96	0.59	ppb
Antimony	121-1	203.39	205.37	208.33	205.70	1.21	ppb
Arsenic	75-2	204.81	205.88	210.12	206.93	1.36	ppb
Barium	135-1	99.44	100.04	101.23	100.24	0.91	ppb
Barium	137-1	99.75	101.13	102.64	101.17	1.43	ppb
Beryllium	9-1	100.05	103.59	101.43	101.69	1.76	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	130.63	135.70	136.19	134.17	2.29	ppb
Cadmium	106-1	79.71	80.20	82.71	80.87	1.99	ppb
Cadmium	111-1	103.51	105.21	105.35	104.69	0.98	ppb
Calcium	43-1	2228.40	2264.92	2255.92	2249.74	0.85	ppb
Calcium	44-1	2182.53	2171.05	2225.64	2193.08	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	101.29	101.03	101.25	101.19	0.14	ppb
Cobalt	59-2	105.02	106.03	105.30	105.45	0.49	ppb
Copper	63-2	106.08	107.80	107.31	107.06	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				102		%
Holmium	165-2				100		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	54-2	2115.83	2152.87	2133.01	2133.90	0.87	ppb
Iron	56-2	2084.94	2069.91	2056.00	2070.28	0.70	ppb
Iron	57-2	2071.76	2042.39	2063.45	2059.20	0.74	ppb
Krypton	83-1						cps
Lead	206-1	207.14	205.46	203.00	205.20	1.01	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	192.93	197.39	195.74	195.35	1.15	ppb
Lead	208-1	197.10	199.05	197.91	198.02	0.50	ppb
Lithium	6-1				102		%
Magnesium	24-2	1145.83	1144.18	1153.22	1147.74	0.42	ppb
Manganese	55-2	98.59	101.58	99.41	99.86	1.55	ppb
Molybdenum	94-1	3842.15	3894.58	3854.33	3863.69	0.71	ppb
Molybdenum	95-1	4712.46	4804.91	4737.07	4751.48	1.01	ppb
Molybdenum	96-1	4640.67	4669.45	4688.96	4666.36	0.52	ppb
Molybdenum	97-1	4648.16	4742.05	4780.20	4723.47	1.44	ppb
Molybdenum	98-1	4655.45	4808.26	4725.23	4729.64	1.62	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	104.55	106.57	104.77	105.29	1.05	ppb
Phosphorus	31-2	-9.47	-16.25	-11.58	-12.44		ppb
Potassium	39-2	1902.58	1911.28	1905.26	1906.37	0.23	ppb
Rhodium	103-1				101		%
Rhodium	103-2				100		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	206.07	211.41	213.32	210.27	1.79	ppb
Selenium	77-2	202.75	241.20	235.75	226.57	9.18	ppb
Selenium	78-2	219.67	213.51	224.26	219.15	2.46	ppb
Silicon	28-1	1.21	1.33	1.70	1.41	18.19	ppb
Silver	107-1	47.78	49.27	49.02	48.69	1.64	ppb
Silver	109-1	48.15	49.05	49.75	48.98	1.63	ppb
Sodium	23-2	2042.96	2019.09	2032.96	2031.67	0.59	ppb
Strontium	86-1	522.12	526.86	536.76	528.58	1.41	ppb
Strontium	88-1	514.76	523.90	526.72	521.79	1.20	ppb
Sulfur	34-1	-30.06	2.37	20.86	-2.28		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	205.48	201.73	200.40	202.54	1.30	ppb
Thallium	205-1	200.43	199.20	199.02	199.55	0.38	ppb
Tin	118-1	0.04	0.06	0.06	0.06	21.39	ppb
Titanium	47-1	0.44	0.44	0.46	0.45	3.13	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	9.50	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	98.19	99.33	98.44	98.65	0.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	199.47	204.25	200.58	201.43	1.24	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	16.21	ppb
Zirconium	91-1	0.12	0.11	0.14	0.12	11.20	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.97	-0.51	-0.04	-0.51		ppb
Antimony	121-1	0.04	0.03	0.03	0.03	17.21	ppb
Arsenic	75-2	-0.02	-0.03	-0.03	-0.02		ppb
Barium	135-1	0.01	0.01	0.00	0.01	87.14	ppb
Barium	137-1	0.01	0.01	0.01	0.01	14.33	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	30.13	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.06	0.06	0.04	50.68	ppb
Cadmium	106-1	-0.24	-0.65	-1.28	-0.72		ppb
Cadmium	111-1	-0.01	-0.05	-0.10	-0.05		ppb
Calcium	43-1	0.47	-1.32	0.19	-0.22		ppb
Calcium	44-1	-4.99	-5.50	-6.09	-5.53		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	0.00	0.00	313.17	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.11	-0.16	-0.11	-0.13		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				101		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				100		%
Iron	54-2	0.35	0.31	0.20	0.29	26.23	ppb
Iron	56-2	0.03	-0.16	-0.05	-0.06		ppb
Iron	57-2	-0.44	-0.07	0.04	-0.16		ppb
Krypton	83-1						cps
Lead	206-1	0.01	0.02	0.02	0.02	32.46	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.01	0.03	0.02	40.64	ppb
Lead	208-1	0.02	0.02	0.02	0.02	15.86	ppb
Lithium	6-1				103		%
Magnesium	24-2	-7.24	-6.36	-7.31	-6.97		ppb
Manganese	55-2	0.00	0.02	0.00	0.01	162.70	ppb
Molybdenum	94-1	0.09	0.05	0.07	0.07	23.72	ppb
Molybdenum	95-1	0.10	0.09	0.07	0.09	17.36	ppb
Molybdenum	96-1	0.09	0.08	0.08	0.08	11.10	ppb
Molybdenum	97-1	0.09	0.08	0.08	0.08	6.97	ppb
Molybdenum	98-1	0.10	0.10	0.08	0.09	12.23	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.08	-0.12	-0.12	-0.10		ppb
Phosphorus	31-2	-14.26	-21.16	-6.53	-13.99		ppb
Potassium	39-2	-1.16	-0.70	-1.00	-0.95		ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	0.20	-0.06	0.21	0.12	127.21	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.00	0.00	0.00	0.00		ppb
Silicon	28-1	-0.44	-0.47	-0.70	-0.53		ppb
Silver	107-1	0.01	0.01	0.01	0.01	31.91	ppb
Silver	109-1	0.01	0.01	0.01	0.01	8.40	ppb
Sodium	23-2	-5.25	-4.47	-6.40	-5.37		ppb
Strontium	86-1	-0.02	-0.01	-0.03	-0.02		ppb
Strontium	88-1	-0.01	-0.01	-0.01	-0.01		ppb
Sulfur	34-1	-69.67	-118.01	-132.30	-106.66		ppb
Terbium	159-1				103		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.01	0.00	0.00	55.64	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	2.06	ppb
Tin	118-1	0.00	0.00	-0.01	0.00		ppb
Titanium	47-1	-0.03	-0.07	-0.05	-0.05		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	0.03	0.15	0.25	0.14	78.78	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.01	0.01	0.01	83.82	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	93753.99	95541.18	93981.70	94425.62	1.03	ppb
Antimony	121-1	1.19	1.15	1.17	1.17	1.75	ppb
Arsenic	75-2	0.34	0.22	0.21	0.26	28.27	ppb
Barium	135-1	1.40	1.35	1.39	1.38	1.87	ppb
Barium	137-1	1.44	1.44	1.47	1.45	1.23	ppb
Beryllium	9-1	0.29	0.29	0.30	0.30	2.31	ppb
Bismuth	209-1				92		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	19.33	18.14	18.36	18.61	3.38	ppb
Cadmium	106-1	-2.58	-1.61	-2.62	-2.27		ppb
Cadmium	111-1	0.44	0.56	0.44	0.48	14.44	ppb
Calcium	43-1	107230.28	106378.29	108303.47	107304.01	0.90	ppb
Calcium	44-1	104007.83	104537.69	106853.62	105133.05	1.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.67	20.30	20.28	20.09	1.78	ppb
Cobalt	59-2	1.16	1.20	1.18	1.18	1.52	ppb
Copper	63-2	8.01	8.20	8.16	8.13	1.24	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				96		%
Indium	115-2				95		%
Iron	54-2	103355.70	105396.89	104119.06	104290.55	0.99	ppb
Iron	56-2	103556.33	105216.25	104118.86	104297.15	0.81	ppb
Iron	57-2	103931.65	107096.75	104442.56	105156.98	1.62	ppb
Krypton	83-1						cps
Lead	206-1	4.86	4.80	4.83	4.83	0.71	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.45	4.39	4.48	4.44	1.13	ppb
Lead	208-1	4.55	4.48	4.51	4.51	0.80	ppb
Lithium	6-1				96		%
Magnesium	24-2	96157.04	98164.13	98421.79	97580.99	1.27	ppb
Manganese	55-2	7.68	7.67	7.98	7.78	2.24	ppb
Molybdenum	94-1	1602.24	1609.96	1640.90	1617.70	1.26	ppb
Molybdenum	95-1	1956.97	1975.72	2029.65	1987.45	1.90	ppb
Molybdenum	96-1	1947.66	1964.03	2020.11	1977.27	1.92	ppb
Molybdenum	97-1	2001.49	1984.19	2025.85	2003.84	1.04	ppb
Molybdenum	98-1	1983.79	1987.71	2032.34	2001.28	1.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.00	5.15	5.21	5.12	2.11	ppb
Phosphorus	31-2	103511.66	104900.69	104989.08	104467.14	0.79	ppb
Potassium	39-2	99496.96	100608.07	100327.40	100144.14	0.58	ppb
Rhodium	103-1				94		%
Rhodium	103-2				94		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	0.13	0.58	0.23	0.31	75.27	ppb
Selenium	77-2	-0.31	0.62	-0.31	0.00	20462.25	ppb
Selenium	78-2	0.26	0.82	0.80	0.63	50.24	ppb
Silicon	28-1	25.53	26.12	28.05	26.57	4.96	ppb
Silver	107-1	0.02	0.02	0.02	0.02	20.11	ppb
Silver	109-1	0.02	0.02	0.03	0.02	30.13	ppb
Sodium	23-2	105227.50	109112.01	106874.08	107071.20	1.82	ppb
Strontium	86-1	33.93	34.72	34.79	34.48	1.39	ppb
Strontium	88-1	35.29	35.74	35.56	35.53	0.63	ppb
Sulfur	34-1	98761.46	99159.30	99908.90	99276.55	0.59	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.06	0.05	0.07	0.06	13.35	ppb
Thallium	205-1	0.05	0.05	0.06	0.05	13.41	ppb
Tin	118-1	0.12	0.10	0.10	0.11	9.36	ppb
Titanium	47-1	2081.60	2090.38	2152.89	2108.29	1.84	ppb
Uranium	238-1	0.01	0.01	0.02	0.01	9.36	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.13	0.16	0.14	0.14	9.13	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				101		%
Zinc	66-2	10.82	11.31	11.08	11.07	2.21	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	17.68	ppb
Zirconium	91-1	0.01	0.02	0.01	0.01	30.62	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92838.93	94469.11	93063.81	93457.28	0.95	ppb
Antimony	121-1	22.07	22.24	22.10	22.14	0.40	ppb
Arsenic	75-2	21.18	22.22	21.86	21.75	2.44	ppb
Barium	135-1	22.31	21.93	22.27	22.17	0.94	ppb
Barium	137-1	22.44	22.72	22.35	22.50	0.87	ppb
Beryllium	9-1	21.42	20.87	21.72	21.34	2.02	ppb
Bismuth	209-1				94		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	34.81	34.99	34.94	34.91	0.26	ppb
Cadmium	106-1	13.22	14.10	13.41	13.58	3.38	ppb
Cadmium	111-1	20.78	20.64	20.52	20.65	0.62	ppb
Calcium	43-1	105683.57	106579.58	108123.02	106795.39	1.16	ppb
Calcium	44-1	104794.82	105729.87	105617.30	105380.66	0.48	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	39.71	39.76	39.90	39.79	0.24	ppb
Cobalt	59-2	21.38	21.89	21.63	21.63	1.18	ppb
Copper	63-2	28.41	28.36	28.53	28.43	0.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				97		%
Indium	115-2				96		%
Iron	54-2	104816.97	104548.16	103730.56	104365.23	0.54	ppb
Iron	56-2	102910.05	104311.05	103267.01	103496.04	0.70	ppb
Iron	57-2	104934.36	105261.70	103525.25	104573.77	0.88	ppb
Krypton	83-1						cps
Lead	206-1	25.97	24.96	25.75	25.56	2.07	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	24.71	24.23	24.66	24.53	1.08	ppb
Lead	208-1	25.02	24.47	25.01	24.83	1.27	ppb
Lithium	6-1				97		%
Magnesium	24-2	96682.97	97260.00	97640.71	97194.56	0.50	ppb
Manganese	55-2	27.46	27.92	27.30	27.56	1.17	ppb
Molybdenum	94-1	1619.40	1608.19	1644.86	1624.15	1.16	ppb
Molybdenum	95-1	2019.46	1990.68	2005.22	2005.12	0.72	ppb
Molybdenum	96-1	1982.97	1946.65	1956.62	1962.08	0.96	ppb
Molybdenum	97-1	2014.48	1996.99	1995.50	2002.32	0.53	ppb
Molybdenum	98-1	2022.90	1966.70	2004.50	1998.03	1.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.81	25.20	25.15	25.05	0.85	ppb
Phosphorus	31-2	103987.60	104893.04	104661.69	104514.11	0.45	ppb
Potassium	39-2	99869.44	100245.41	99341.59	99818.81	0.45	ppb
Rhodium	103-1				94		%
Rhodium	103-2				93		%
Scandium	45-1				101		%
Scandium	45-2				102		%
Selenium	82-1	21.09	21.15	20.39	20.88	2.03	ppb
Selenium	77-2	21.47	26.60	24.55	24.21	10.67	ppb
Selenium	78-2	23.64	29.89	26.15	26.56	11.83	ppb
Silicon	28-1	28.23	29.29	30.26	29.26	3.48	ppb
Silver	107-1	19.41	19.55	19.61	19.52	0.52	ppb
Silver	109-1	19.58	19.49	19.65	19.57	0.42	ppb
Sodium	23-2	105675.64	107130.02	107019.12	106608.26	0.76	ppb
Strontium	86-1	34.39	34.23	34.42	34.34	0.29	ppb
Strontium	88-1	35.44	35.27	35.66	35.46	0.55	ppb
Sulfur	34-1	96935.89	97847.31	99160.36	97981.19	1.14	ppb
Terbium	159-1				102		%
Terbium	159-2				98		%
Thallium	203-1	21.19	21.13	21.08	21.13	0.25	ppb
Thallium	205-1	21.36	20.71	21.35	21.14	1.76	ppb
Tin	118-1	0.16	0.15	0.15	0.15	1.26	ppb
Titanium	47-1	2118.93	2117.62	2144.11	2126.89	0.70	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	8.87	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	20.07	20.23	20.18	20.16	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				101		%
Zinc	66-2	31.09	31.28	31.66	31.34	0.92	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	4.08	ppb
Zirconium	91-1	0.02	0.01	0.03	0.02	38.41	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49746.73	49962.40	49673.39	49794.17	0.30	ppb
Antimony	121-1	492.27	507.99	502.80	501.02	1.60	ppb
Arsenic	75-2	489.17	502.13	498.52	496.60	1.35	ppb
Barium	135-1	2560.98	2595.31	2559.67	2571.98	0.79	ppb
Barium	137-1	2549.68	2577.32	2530.49	2552.49	0.92	ppb
Beryllium	9-1	500.37	509.58	508.55	506.17	1.00	ppb
Bismuth	209-1				90		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	492.93	502.30	489.47	494.90	1.34	ppb
Cadmium	106-1	484.39	496.86	489.92	490.39	1.27	ppb
Cadmium	111-1	497.56	514.74	499.46	503.92	1.87	ppb
Calcium	43-1	261716.52	264345.47	260408.05	262156.68	0.76	ppb
Calcium	44-1	259926.82	258880.09	261089.02	259965.31	0.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	493.18	507.34	496.51	499.01	1.48	ppb
Cobalt	59-2	490.85	492.97	496.95	493.59	0.63	ppb
Copper	63-2	4796.25	4769.19	4751.78	4772.41	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				98		%
Holmium	165-2				99		%
Indium	115-1				94		%
Indium	115-2				93		%
Iron	54-2	125145.17	126385.42	125291.99	125607.53	0.54	ppb
Iron	56-2	124763.32	126027.15	123663.34	124817.94	0.95	ppb
Iron	57-2	126361.39	126526.43	125710.97	126199.60	0.34	ppb
Krypton	83-1						cps
Lead	206-1	2535.08	2592.49	2547.84	2558.47	1.18	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2507.54	2587.80	2491.55	2528.96	2.04	ppb
Lead	208-1	2527.18	2594.66	2509.28	2543.71	1.77	ppb
Lithium	6-1				94		%
Magnesium	24-2	248815.27	248704.63	246424.06	247981.32	0.54	ppb
Manganese	55-2	4868.97	4970.08	4908.91	4915.99	1.04	ppb
Molybdenum	94-1	5019.61	5102.96	5111.91	5078.16	1.00	ppb
Molybdenum	95-1	4986.78	5107.91	5010.17	5034.95	1.28	ppb
Molybdenum	96-1	4953.94	5045.19	5056.66	5018.60	1.12	ppb
Molybdenum	97-1	4977.78	5008.55	5064.46	5016.93	0.88	ppb
Molybdenum	98-1	5011.44	5050.31	5029.28	5030.34	0.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	465.89	462.76	459.05	462.57	0.74	ppb
Phosphorus	31-2	10304.56	10225.77	10004.64	10178.32	1.53	ppb
Potassium	39-2	125522.40	124299.99	123606.73	124476.37	0.78	ppb
Rhodium	103-1				90		%
Rhodium	103-2				91		%
Scandium	45-1				98		%
Scandium	45-2				101		%
Selenium	82-1	498.03	495.27	497.46	496.92	0.29	ppb
Selenium	77-2	501.74	496.66	503.50	500.63	0.71	ppb
Selenium	78-2	482.50	496.57	493.30	490.79	1.50	ppb
Silicon	28-1	506.51	512.50	522.84	513.95	1.61	ppb
Silver	107-1	492.30	496.81	491.40	493.50	0.59	ppb
Silver	109-1	484.14	487.15	484.71	485.33	0.33	ppb
Sodium	23-2	259278.15	260931.82	253667.77	257959.25	1.48	ppb
Strontium	86-1	509.64	506.46	508.21	508.10	0.31	ppb
Strontium	88-1	495.64	503.77	504.26	501.22	0.97	ppb
Sulfur	34-1	9637.46	9749.82	9754.52	9713.93	0.68	ppb
Terbium	159-1				99		%
Terbium	159-2				97		%
Thallium	203-1	505.41	518.79	509.41	511.20	1.34	ppb
Thallium	205-1	505.47	516.84	515.98	512.76	1.23	ppb
Tin	118-1	501.13	501.98	503.51	502.21	0.24	ppb
Titanium	47-1	5053.52	5005.06	5030.24	5029.61	0.48	ppb
Uranium	238-1	513.31	521.68	506.84	513.94	1.45	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	494.98	498.21	503.46	498.88	0.86	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				100		%
Zinc	66-2	4926.43	4849.19	4750.30	4841.97	1.82	ppb
Zirconium	90-1	503.35	513.17	511.35	509.29	1.03	ppb
Zirconium	91-1	509.81	520.64	501.30	510.58	1.90	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.57	0.55	0.74	0.95	56.70	ppb
Antimony	121-1	0.11	0.11	0.11	0.11	3.97	ppb
Arsenic	75-2	-0.02	0.03	-0.01	0.00	1376.36	ppb
Barium	135-1	0.05	0.07	0.02	0.05	53.82	ppb
Barium	137-1	0.07	0.06	0.06	0.07	13.62	ppb
Beryllium	9-1	0.14	0.12	0.11	0.12	12.79	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.09	0.00	0.06	89.63	ppb
Cadmium	106-1	-0.82	-0.90	-1.03	-0.92		ppb
Cadmium	111-1	-0.03	-0.05	-0.06	-0.05		ppb
Calcium	43-1	6.86	5.14	4.39	5.46	23.15	ppb
Calcium	44-1	2.75	2.16	1.42	2.11	31.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-0.02	-0.02	-0.01		ppb
Cobalt	59-2	-0.01	0.00	-0.01	0.00		ppb
Copper	63-2	-0.02	-0.07	-0.03	-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				103		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				103		%
Iron	54-2	3.10	3.80	3.58	3.49	10.18	ppb
Iron	56-2	3.39	3.51	2.66	3.18	14.38	ppb
Iron	57-2	4.06	3.76	2.92	3.58	16.64	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.17	0.18	0.18	5.38	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.19	0.18	0.20	13.37	ppb
Lead	208-1	0.20	0.18	0.17	0.19	7.74	ppb
Lithium	6-1				106		%
Magnesium	24-2	-7.45	-7.79	-7.77	-7.67		ppb
Manganese	55-2	0.12	0.08	0.08	0.10	23.51	ppb
Molybdenum	94-1	0.19	0.14	0.16	0.17	14.97	ppb
Molybdenum	95-1	0.20	0.16	0.14	0.17	17.58	ppb
Molybdenum	96-1	0.18	0.15	0.15	0.16	12.28	ppb
Molybdenum	97-1	0.20	0.17	0.12	0.16	25.60	ppb
Molybdenum	98-1	0.21	0.16	0.15	0.17	18.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.04	-0.01	-0.06	-0.04		ppb
Phosphorus	31-2	-14.10	-13.15	-9.90	-12.38		ppb
Potassium	39-2	23.30	23.49	17.96	21.59	14.55	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	0.13	0.03	0.38	0.18	99.36	ppb
Selenium	77-2	1.46	-0.31	-0.31	0.28	363.03	ppb
Selenium	78-2	-0.27	-0.02	-0.27	-0.19		ppb
Silicon	28-1	0.51	0.53	0.28	0.44	31.16	ppb
Silver	107-1	0.05	0.05	0.04	0.05	6.99	ppb
Silver	109-1	0.05	0.05	0.05	0.05	8.31	ppb
Sodium	23-2	41.53	37.40	37.65	38.86	5.95	ppb
Strontium	86-1	-0.03	-0.03	-0.02	-0.03		ppb
Strontium	88-1	-0.03	-0.03	-0.03	-0.03		ppb
Sulfur	34-1	-895.39	-901.33	-837.69	-878.14		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.07	0.06	0.05	0.06	14.39	ppb
Thallium	205-1	0.06	0.06	0.06	0.06	6.55	ppb
Tin	118-1	0.03	0.03	0.03	0.03	10.03	ppb
Titanium	47-1	0.14	0.08	0.05	0.09	51.00	ppb
Uranium	238-1	0.01	0.01	0.00	0.01	30.82	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.00	0.00	0.00	177.05	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				105		%
Zinc	66-2	0.24	0.28	0.14	0.22	32.21	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	4.02	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	6.96	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13023.36	14394.10	11685.31	13034.26	10.39	ppb
Antimony	121-1	0.30	0.31	0.32	0.31	2.84	ppb
Arsenic	75-2	30.52	32.85	28.60	30.66	6.93	ppb
Barium	135-1	122.54	121.85	124.77	123.05	1.24	ppb
Barium	137-1	124.03	122.86	126.67	124.52	1.57	ppb
Beryllium	9-1	0.54	0.56	0.58	0.56	3.14	ppb
Bismuth	209-1				102		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	0.24	0.32	0.35	0.30	17.89	ppb
Cadmium	106-1	-0.74	-2.10	-0.88	-1.24		ppb
Cadmium	111-1	0.03	-0.07	0.04	0.00		ppb
Calcium	43-1	3008.15	3068.24	3074.69	3050.36	1.20	ppb
Calcium	44-1	3071.52	3128.00	3114.64	3104.72	0.95	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.35	33.66	27.15	30.39	10.71	ppb
Cobalt	59-2	17.41	19.05	15.35	17.27	10.74	ppb
Copper	63-2	57.85	63.83	52.54	58.07	9.73	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				93		%
Indium	115-1				104		%
Indium	115-2				92		%
Iron	54-2	37361.70	40875.82	33179.24	37138.92	10.37	ppb
Iron	56-2	37468.64	40947.72	33117.73	37178.03	10.55	ppb
Iron	57-2	38292.27	42114.28	33816.90	38074.48	10.91	ppb
Krypton	83-1						cps
Lead	206-1	12.44	13.27	13.07	12.92	3.36	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	11.66	12.26	12.29	12.07	2.95	ppb
Lead	208-1	11.98	12.69	12.60	12.43	3.12	ppb
Lithium	6-1				106		%
Magnesium	24-2	6468.64	7253.99	5886.28	6536.31	10.50	ppb
Manganese	55-2	281.46	307.38	248.21	279.02	10.63	ppb
Molybdenum	94-1	1.04	1.10	1.12	1.08	3.90	ppb
Molybdenum	95-1	0.43	0.44	0.46	0.44	3.32	ppb
Molybdenum	96-1	0.52	0.53	0.55	0.54	3.07	ppb
Molybdenum	97-1	0.44	0.43	0.47	0.45	5.50	ppb
Molybdenum	98-1	0.45	0.44	0.45	0.45	1.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	44.36	48.92	39.56	44.28	10.58	ppb
Phosphorus	31-2	363.48	392.51	331.15	362.38	8.47	ppb
Potassium	39-2	381.04	467.73	354.22	401.00	14.80	ppb
Rhodium	103-1				103		%
Rhodium	103-2				93		%
Scandium	45-1				106		%
Scandium	45-2				97		%
Selenium	82-1	0.28	0.69	0.44	0.47	43.97	ppb
Selenium	77-2	10.28	18.52	13.72	14.17	29.19	ppb
Selenium	78-2	3.67	3.10	2.81	3.19	13.78	ppb
Silicon	28-1	4646.41	4621.42	4555.06	4607.63	1.02	ppb
Silver	107-1	0.22	0.20	0.20	0.20	6.79	ppb
Silver	109-1	0.22	0.21	0.20	0.21	5.34	ppb
Sodium	23-2	95.23	120.94	74.20	96.79	24.19	ppb
Strontium	86-1	25.73	26.66	26.77	26.38	2.16	ppb
Strontium	88-1	25.76	26.41	27.11	26.42	2.56	ppb
Sulfur	34-1	-1264.00	-1287.51	-1350.87	-1300.79		ppb
Terbium	159-1				104		%
Terbium	159-2				91		%
Thallium	203-1	0.15	0.15	0.15	0.15	1.48	ppb
Thallium	205-1	0.15	0.16	0.15	0.15	1.92	ppb
Tin	118-1	0.06	0.04	0.04	0.05	30.26	ppb
Titanium	47-1	7.72	17.21	8.95	11.30	45.69	ppb
Uranium	238-1	0.22	0.23	0.24	0.23	4.52	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	36.91	41.04	32.92	36.96	11.00	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				97		%
Zinc	66-2	79.68	87.61	71.45	79.58	10.15	ppb
Zirconium	90-1	0.42	0.52	0.40	0.45	14.05	ppb
Zirconium	91-1	0.45	0.43	0.44	0.44	2.86	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11561.18	11886.15	11611.28	11686.20	1.50	ppb
Antimony	121-1	0.29	0.31	0.29	0.29	4.87	ppb
Arsenic	75-2	27.26	27.31	27.30	27.29	0.09	ppb
Barium	135-1	122.65	123.90	123.83	123.46	0.57	ppb
Barium	137-1	124.22	125.41	126.74	125.46	1.00	ppb
Beryllium	9-1	0.53	0.54	0.53	0.53	0.86	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.32	0.27	0.31	0.30	8.46	ppb
Cadmium	106-1	-0.95	-1.07	-0.33	-0.78		ppb
Cadmium	111-1	0.02	-0.02	0.07	0.02	170.11	ppb
Calcium	43-1	2972.83	2977.04	3038.29	2996.06	1.22	ppb
Calcium	44-1	3064.28	3107.29	3060.81	3077.46	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	26.72	27.54	26.92	27.06	1.58	ppb
Cobalt	59-2	15.27	15.65	15.16	15.36	1.67	ppb
Copper	63-2	51.93	53.12	51.96	52.34	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				103		%
Holmium	165-2				103		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	33969.75	34104.99	33496.20	33856.98	0.94	ppb
Iron	56-2	33247.33	33763.27	33265.81	33425.47	0.88	ppb
Iron	57-2	33419.82	34680.30	33739.07	33946.40	1.93	ppb
Krypton	83-1						cps
Lead	206-1	12.93	13.00	12.83	12.92	0.67	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	12.21	12.32	12.00	12.18	1.36	ppb
Lead	208-1	12.50	12.61	12.33	12.48	1.12	ppb
Lithium	6-1				107		%
Magnesium	24-2	5759.46	5886.64	5713.79	5786.63	1.55	ppb
Manganese	55-2	247.83	252.15	247.37	249.11	1.06	ppb
Molybdenum	94-1	1.08	1.08	1.07	1.08	0.73	ppb
Molybdenum	95-1	0.44	0.43	0.41	0.43	3.08	ppb
Molybdenum	96-1	0.60	0.51	0.53	0.55	7.97	ppb
Molybdenum	97-1	0.43	0.40	0.43	0.42	4.68	ppb
Molybdenum	98-1	0.43	0.42	0.45	0.43	3.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	39.02	40.07	39.13	39.41	1.46	ppb
Phosphorus	31-2	284.44	294.45	281.87	286.92	2.32	ppb
Potassium	39-2	342.05	334.95	326.08	334.36	2.39	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				108		%
Selenium	82-1	0.65	0.57	0.57	0.60	7.54	ppb
Selenium	77-2	21.14	16.38	13.33	16.95	23.22	ppb
Selenium	78-2	5.00	3.59	2.72	3.77	30.53	ppb
Silicon	28-1	4436.20	4555.18	4722.87	4571.42	3.15	ppb
Silver	107-1	0.17	0.18	0.19	0.18	5.40	ppb
Silver	109-1	0.16	0.18	0.19	0.17	8.56	ppb
Sodium	23-2	57.58	63.40	58.45	59.81	5.24	ppb
Strontium	86-1	26.33	26.30	26.34	26.32	0.08	ppb
Strontium	88-1	26.22	26.10	26.30	26.20	0.38	ppb
Sulfur	34-1	-1856.16	-1819.99	-1776.82	-1817.66		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.13	0.14	0.15	0.14	8.79	ppb
Thallium	205-1	0.12	0.13	0.15	0.14	10.27	ppb
Tin	118-1	0.04	0.03	0.05	0.04	20.09	ppb
Titanium	47-1	10.97	9.88	10.81	10.55	5.54	ppb
Uranium	238-1	0.23	0.24	0.23	0.23	2.32	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	33.13	33.71	32.46	33.10	1.89	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				108		%
Zinc	66-2	69.55	72.57	70.08	70.73	2.28	ppb
Zirconium	90-1	0.36	0.39	0.39	0.38	5.30	ppb
Zirconium	91-1	2.01	0.39	0.40	0.93	99.83	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2400.28	2390.35	2349.19	2379.94	1.14	ppb
Antimony	121-1	0.06	0.07	0.06	0.06	10.99	ppb
Arsenic	75-2	5.55	5.50	5.42	5.49	1.15	ppb
Barium	135-1	25.07	25.01	25.12	25.07	0.22	ppb
Barium	137-1	25.29	25.32	25.25	25.28	0.15	ppb
Beryllium	9-1	0.11	0.14	0.12	0.12	10.04	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.11	0.06	0.06	61.76	ppb
Cadmium	106-1	-1.25	-2.51	-1.39	-1.72		ppb
Cadmium	111-1	-0.06	-0.18	-0.09	-0.11		ppb
Calcium	43-1	603.43	613.59	614.48	610.50	1.01	ppb
Calcium	44-1	598.40	604.87	602.29	601.85	0.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.43	5.50	5.53	5.49	0.90	ppb
Cobalt	59-2	3.18	3.16	3.08	3.14	1.74	ppb
Copper	63-2	10.63	10.64	10.45	10.57	1.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				103		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	6818.56	6734.57	6797.43	6783.52	0.64	ppb
Iron	56-2	6943.74	6870.90	6739.86	6851.50	1.51	ppb
Iron	57-2	6833.96	6719.21	6704.60	6752.59	1.05	ppb
Krypton	83-1						cps
Lead	206-1	2.68	2.69	2.71	2.69	0.53	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.60	2.55	2.61	2.59	1.13	ppb
Lead	208-1	2.64	2.60	2.65	2.63	0.92	ppb
Lithium	6-1				106		%
Magnesium	24-2	1155.73	1165.48	1147.05	1156.09	0.80	ppb
Manganese	55-2	51.37	52.55	50.56	51.49	1.94	ppb
Molybdenum	94-1	0.21	0.24	0.26	0.24	10.05	ppb
Molybdenum	95-1	0.09	0.09	0.09	0.09	2.58	ppb
Molybdenum	96-1	0.12	0.10	0.10	0.10	9.12	ppb
Molybdenum	97-1	0.11	0.08	0.09	0.09	13.91	ppb
Molybdenum	98-1	0.10	0.09	0.10	0.09	6.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.03	7.98	8.00	8.00	0.36	ppb
Phosphorus	31-2	52.51	55.53	52.81	53.61	3.11	ppb
Potassium	39-2	73.45	70.78	73.02	72.42	1.98	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				107		%
Scandium	45-2				105		%
Selenium	82-1	0.13	0.14	0.16	0.14	8.81	ppb
Selenium	77-2	1.45	1.43	1.42	1.43	1.05	ppb
Selenium	78-2	1.27	0.24	0.99	0.84	64.18	ppb
Silicon	28-1	1072.16	925.27	921.76	973.06	8.82	ppb
Silver	107-1	0.03	0.04	0.03	0.03	9.23	ppb
Silver	109-1	0.04	0.04	0.04	0.04	4.44	ppb
Sodium	23-2	19.72	18.98	15.41	18.04	12.78	ppb
Strontium	86-1	5.26	5.37	5.32	5.32	1.03	ppb
Strontium	88-1	5.26	5.33	5.35	5.31	0.88	ppb
Sulfur	34-1	-2065.35	-2018.08	-2105.45	-2062.96		ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.04	0.04	0.04	0.04	7.85	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	8.44	ppb
Tin	118-1	-0.03	-0.05	-0.05	-0.04		ppb
Titanium	47-1	1.31	1.62	1.92	1.62	18.81	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	2.83	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	6.67	6.66	6.91	6.75	2.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				107		%
Zinc	66-2	14.79	15.05	14.50	14.78	1.86	ppb
Zirconium	90-1	0.07	0.07	0.08	0.07	5.33	ppb
Zirconium	91-1	0.16	0.09	0.08	0.11	35.29	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11817.93	11598.56	11695.75	11704.08	0.94	ppb
Antimony	121-1	10.63	10.66	10.82	10.71	0.95	ppb
Arsenic	75-2	31.28	29.60	30.06	30.32	2.87	ppb
Barium	135-1	319.70	316.23	324.64	320.19	1.32	ppb
Barium	137-1	333.76	325.61	340.15	333.17	2.19	ppb
Beryllium	9-1	5.24	5.52	5.38	5.38	2.53	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	4.80	5.06	4.75	4.87	3.47	ppb
Cadmium	106-1	2.74	2.31	2.32	2.46	10.00	ppb
Cadmium	111-1	5.21	5.01	5.18	5.13	2.07	ppb
Calcium	43-1	3469.65	3419.18	3466.52	3451.78	0.82	ppb
Calcium	44-1	3388.72	3342.93	3337.58	3356.41	0.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	46.23	45.55	46.60	46.13	1.15	ppb
Cobalt	59-2	65.59	63.55	65.21	64.78	1.68	ppb
Copper	63-2	76.84	75.67	75.73	76.08	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				103		%
Holmium	165-2				104		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	54-2	33676.35	32324.28	32977.96	32992.86	2.05	ppb
Iron	56-2	32908.36	32418.20	32906.12	32744.23	0.86	ppb
Iron	57-2	33510.95	32992.49	32868.36	33123.93	1.03	ppb
Krypton	83-1						cps
Lead	206-1	14.74	14.72	14.85	14.77	0.49	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	14.07	13.94	14.07	14.03	0.52	ppb
Lead	208-1	14.32	14.26	14.32	14.30	0.26	ppb
Lithium	6-1				107		%
Magnesium	24-2	5828.44	5634.15	5669.03	5710.54	1.81	ppb
Manganese	55-2	295.45	288.16	294.65	292.75	1.37	ppb
Molybdenum	94-1	42.43	42.64	43.55	42.87	1.39	ppb
Molybdenum	95-1	50.52	50.99	51.69	51.06	1.16	ppb
Molybdenum	96-1	49.31	50.27	50.70	50.09	1.42	ppb
Molybdenum	97-1	50.99	51.28	52.13	51.46	1.15	ppb
Molybdenum	98-1	50.43	51.31	51.35	51.03	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	89.04	87.19	88.84	88.36	1.15	ppb
Phosphorus	31-2	307.28	321.91	335.74	321.64	4.42	ppb
Potassium	39-2	328.75	320.98	317.06	322.26	1.85	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				108		%
Selenium	82-1	2.50	2.28	2.44	2.40	4.63	ppb
Selenium	77-2	16.51	16.57	18.74	17.27	7.35	ppb
Selenium	78-2	4.65	3.68	5.05	4.46	15.81	ppb
Silicon	28-1	4814.84	4428.17	4447.94	4563.65	4.77	ppb
Silver	107-1	5.09	5.12	5.22	5.14	1.27	ppb
Silver	109-1	5.10	5.08	5.27	5.15	2.06	ppb
Sodium	23-2	51.34	48.19	52.67	50.73	4.54	ppb
Strontium	86-1	1013.38	1013.92	1008.09	1011.80	0.32	ppb
Strontium	88-1	997.55	1000.36	1009.06	1002.32	0.60	ppb
Sulfur	34-1	-2288.41	-2352.42	-2366.66	-2335.83		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	4.90	4.98	5.01	4.96	1.12	ppb
Thallium	205-1	4.98	5.01	5.02	5.00	0.35	ppb
Tin	118-1	0.02	0.00	0.01	0.01	80.18	ppb
Titanium	47-1	7.87	14.07	18.01	13.32	38.38	ppb
Uranium	238-1	0.23	0.24	0.23	0.23	1.30	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	80.97	79.34	81.19	80.50	1.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				107		%
Zinc	66-2	120.38	116.92	119.63	118.98	1.53	ppb
Zirconium	90-1	0.39	0.38	0.41	0.40	3.64	ppb
Zirconium	91-1	0.41	0.41	0.64	0.49	27.50	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.44	-0.06	-0.57	-0.36		ppb
Antimony	121-1	0.01	0.00	0.00	0.01	27.52	ppb
Arsenic	75-2	-0.01	0.02	-0.02	0.00		ppb
Barium	135-1	-0.01	-0.01	-0.02	-0.02		ppb
Barium	137-1	-0.01	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	177.07	ppb
Bismuth	209-1				103		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.04	0.04	0.04	3.00	ppb
Cadmium	106-1	-1.04	-2.27	-0.58	-1.30		ppb
Cadmium	111-1	-0.09	-0.18	-0.05	-0.10		ppb
Calcium	43-1	-1.33	0.21	-0.47	-0.53		ppb
Calcium	44-1	-5.67	-5.48	-6.31	-5.82		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	0.00	-0.02	-0.01		ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	-0.17	-0.19	-0.20	-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				102		%
Holmium	165-2				104		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	54-2	0.95	0.99	0.80	0.91	10.67	ppb
Iron	56-2	0.70	0.67	0.59	0.65	8.86	ppb
Iron	57-2	0.29	1.74	1.54	1.19	65.91	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.03	0.04	0.04	11.08	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.04	0.03	0.03	17.37	ppb
Lead	208-1	0.04	0.04	0.04	0.04	7.15	ppb
Lithium	6-1				107		%
Magnesium	24-2	-6.62	-7.13	-6.81	-6.85		ppb
Manganese	55-2	-0.01	0.00	0.00	-0.01		ppb
Molybdenum	94-1	0.00	0.01	0.01	0.01	28.98	ppb
Molybdenum	95-1	0.00	0.01	0.00	0.00	75.43	ppb
Molybdenum	96-1	0.00	0.01	-0.01	0.00		ppb
Molybdenum	97-1	0.00	-0.01	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	49.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	-0.06	-0.06	-0.06		ppb
Phosphorus	31-2	-7.49	-19.80	-24.33	-17.21		ppb
Potassium	39-2	3.85	1.80	3.12	2.92	35.55	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	0.17	0.00	0.39	0.19	104.02	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.98	-0.27	0.99	0.57	128.24	ppb
Silicon	28-1	-0.46	-1.52	-1.63	-1.20		ppb
Silver	107-1	0.00	0.00	0.00	0.00	747.58	ppb
Silver	109-1	0.00	0.00	0.00	0.00	33.98	ppb
Sodium	23-2	3.59	-0.52	-0.45	0.87	268.83	ppb
Strontium	86-1	-0.04	-0.05	-0.04	-0.04		ppb
Strontium	88-1	-0.04	-0.04	-0.03	-0.03		ppb
Sulfur	34-1	-1377.16	-1655.54	-1520.32	-1517.67		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.02	0.02	8.36	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	2.03	ppb
Tin	118-1	-0.01	-0.02	-0.01	-0.02		ppb
Titanium	47-1	-0.06	-0.04	-0.08	-0.06		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				108		%
Zinc	66-2	0.13	0.00	-0.02	0.04	230.14	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	210.07	ppb
Zirconium	91-1	0.01	0.00	0.00	0.01	97.99	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41.27	41.94	40.43	41.22	1.83	ppb
Antimony	121-1	4.33	4.44	4.32	4.36	1.52	ppb
Arsenic	75-2	2.29	2.31	2.31	2.30	0.50	ppb
Barium	135-1	20.75	21.44	21.01	21.07	1.64	ppb
Barium	137-1	20.69	21.35	21.13	21.06	1.59	ppb
Beryllium	9-1	2.15	2.18	2.13	2.15	1.08	ppb
Bismuth	209-1				102		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	2.65	2.30	2.43	2.46	7.11	ppb
Cadmium	106-1	1.04	1.23	2.02	1.43	36.25	ppb
Cadmium	111-1	2.09	2.17	2.23	2.17	3.38	ppb
Calcium	43-1	1074.02	1108.22	1084.79	1089.01	1.61	ppb
Calcium	44-1	1048.57	1074.68	1066.03	1063.09	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.95	4.11	4.07	4.04	1.99	ppb
Cobalt	59-2	2.11	2.18	2.16	2.15	1.65	ppb
Copper	63-2	4.52	4.58	4.59	4.56	0.90	ppb
Dysprosium	156-1						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				104		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	54-2	426.73	438.04	442.64	435.80	1.88	ppb
Iron	56-2	426.95	434.63	438.82	433.47	1.39	ppb
Iron	57-2	435.76	431.17	440.14	435.69	1.03	ppb
Krypton	83-1						cps
Lead	206-1	1.98	2.09	2.07	2.05	2.93	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.04	2.06	2.16	2.09	3.06	ppb
Lead	208-1	2.01	2.09	2.09	2.07	2.21	ppb
Lithium	6-1				107		%
Magnesium	24-2	988.05	1005.11	1021.90	1005.02	1.68	ppb
Manganese	55-2	2.04	2.07	2.11	2.07	1.68	ppb
Molybdenum	94-1	21.14	21.64	21.79	21.52	1.57	ppb
Molybdenum	95-1	21.27	21.91	21.84	21.67	1.62	ppb
Molybdenum	96-1	21.10	21.74	21.67	21.50	1.62	ppb
Molybdenum	97-1	21.43	22.10	22.02	21.85	1.68	ppb
Molybdenum	98-1	20.97	21.66	21.72	21.45	1.93	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.03	2.00	2.16	2.06	4.24	ppb
Phosphorus	31-2	37.48	48.04	29.93	38.48	23.65	ppb
Potassium	39-2	1007.03	1024.04	1046.03	1025.70	1.91	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				107		%
Scandium	45-2				108		%
Selenium	82-1	10.37	11.04	10.92	10.78	3.34	ppb
Selenium	77-2	10.76	6.73	7.66	8.38	25.20	ppb
Selenium	78-2	12.20	13.12	11.40	12.24	7.01	ppb
Silicon	28-1	22.33	23.73	23.24	23.10	3.08	ppb
Silver	107-1	2.11	2.20	2.18	2.16	2.22	ppb
Silver	109-1	2.13	2.19	2.16	2.16	1.50	ppb
Sodium	23-2	1047.44	1061.84	1096.05	1068.44	2.34	ppb
Strontium	86-1	3.55	3.74	3.73	3.68	2.86	ppb
Strontium	88-1	3.61	3.72	3.74	3.69	1.93	ppb
Sulfur	34-1	-1344.14	-1162.81	-1173.22	-1226.72		ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	2.00	2.04	2.08	2.04	1.92	ppb
Thallium	205-1	2.08	2.06	2.11	2.08	1.23	ppb
Tin	118-1	10.53	10.92	10.83	10.76	1.87	ppb
Titanium	47-1	2.49	2.48	2.49	2.48	0.22	ppb
Uranium	238-1	1.85	1.91	1.90	1.89	1.82	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.50	10.55	10.69	10.58	0.92	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	10.84	10.69	10.44	10.66	1.87	ppb
Zirconium	90-1	1.98	2.08	2.02	2.03	2.36	ppb
Zirconium	91-1	1.95	2.03	2.00	1.99	2.05	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.92	0.71	0.43	0.69	35.58	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.62	ppb
Arsenic	75-2	-0.02	-0.01	0.02	0.00		ppb
Barium	135-1	0.01	0.03	0.03	0.02	59.93	ppb
Barium	137-1	0.02	0.01	0.02	0.02	36.15	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				106		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Cadmium	108-1	0.04	-0.01	0.02	0.02	158.61	ppb
Cadmium	106-1	-1.57	-1.07	-0.66	-1.10		ppb
Cadmium	111-1	-0.12	-0.08	-0.05	-0.08		ppb
Calcium	43-1	5.89	6.03	4.72	5.55	12.95	ppb
Calcium	44-1	-0.70	-0.97	-0.61	-0.76		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.20	0.21	0.20	0.20	3.59	ppb
Cobalt	59-2	-0.02	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.18	-0.18	-0.18	-0.18		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				105		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				107		%
Iron	54-2	1.60	1.62	2.71	1.98	32.12	ppb
Iron	56-2	1.46	1.26	1.42	1.38	7.95	ppb
Iron	57-2	1.69	1.05	0.71	1.15	43.11	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.11	0.09	0.11	26.33	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.11	0.09	0.12	25.40	ppb
Lead	208-1	0.15	0.10	0.09	0.11	25.54	ppb
Lithium	6-1				110		%
Magnesium	24-2	-6.21	-6.11	-4.80	-5.71		ppb
Manganese	55-2	0.36	0.32	0.44	0.37	17.13	ppb
Molybdenum	94-1	-0.02	0.00	0.00	-0.01		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	97-1	0.00	-0.01	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	-0.08	-0.08	-0.05	-0.07		ppb
Phosphorus	31-2	-5.50	-8.36	-5.50	-6.45		ppb
Potassium	39-2	-0.07	3.15	1.86	1.64	98.63	ppb
Rhodium	103-1				109		%
Rhodium	103-2				106		%
Scandium	45-1				109		%
Scandium	45-2				110		%
Selenium	82-1	0.11	-0.19	0.36	0.09	296.96	ppb
Selenium	77-2	0.55	-0.31	-0.31	-0.02		ppb
Selenium	78-2	-0.02	0.23	-0.27	-0.02		ppb
Silicon	28-1	9.11	9.60	10.48	9.73	7.17	ppb
Silver	107-1	0.01	0.01	0.01	0.01	22.27	ppb
Silver	109-1	0.01	0.01	0.01	0.01	20.21	ppb
Sodium	23-2	16.24	13.37	16.33	15.31	11.01	ppb
Strontium	86-1	-0.02	0.01	0.03	0.01	302.91	ppb
Strontium	88-1	0.03	0.02	0.02	0.02	6.22	ppb
Sulfur	34-1	-1364.05	-1398.69	-1313.04	-1358.59		ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.03	0.02	0.01	0.02	29.65	ppb
Thallium	205-1	0.03	0.02	0.01	0.02	31.39	ppb
Tin	118-1	-0.02	-0.01	-0.01	-0.01		ppb
Titanium	47-1	-0.13	-0.14	-0.15	-0.14		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		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	0.06	0.04	0.07	0.06	23.92	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	455.02	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	685.88	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.55	-0.39	-0.10	-0.35		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	27.86	ppb
Arsenic	75-2	0.01	-0.03	-0.04	-0.02		ppb
Barium	135-1	-0.03	0.00	-0.02	-0.02		ppb
Barium	137-1	0.00	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.01	0.00	-0.01		ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.03	0.00	0.03	106.61	ppb
Cadmium	106-1	-0.32	-1.94	-1.65	-1.31		ppb
Cadmium	111-1	-0.03	-0.15	-0.13	-0.10		ppb
Calcium	43-1	0.71	-0.96	-0.85	-0.37		ppb
Calcium	44-1	-6.00	-6.37	-6.05	-6.14		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.02	-0.03	-0.02		ppb
Cobalt	59-2	0.00	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.19	-0.18	-0.16	-0.18		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				101		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	0.62	0.60	0.74	0.66	11.65	ppb
Iron	56-2	0.26	0.16	0.33	0.25	34.51	ppb
Iron	57-2	-0.46	0.47	0.71	0.24	259.86	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	-0.01	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.00	0.00	0.00	0.00	431.31	ppb
Lead	208-1	-0.01	0.00	0.00	0.00		ppb
Lithium	6-1				107		%
Magnesium	24-2	-6.23	-4.83	-5.74	-5.60		ppb
Manganese	55-2	-0.02	-0.04	-0.05	-0.04		ppb
Molybdenum	94-1	0.01	0.00	0.00	0.00	108.41	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	123.60	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	98-1	0.00	0.01	0.00	0.00	40.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.10	-0.08	-0.13	-0.10		ppb
Phosphorus	31-2	-12.00	-15.04	-17.47	-14.84		ppb
Potassium	39-2	-2.26	4.77	1.38	1.29	271.38	ppb
Rhodium	103-1				105		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	-0.12	0.11	-0.11	-0.04		ppb
Selenium	77-2	-0.31	1.43	-0.31	0.27	369.72	ppb
Selenium	78-2	0.76	0.75	0.25	0.59	49.33	ppb
Silicon	28-1	0.81	0.53	0.90	0.75	25.56	ppb
Silver	107-1	0.00	0.00	0.00	0.00	80.06	ppb
Silver	109-1	0.00	0.00	0.00	0.00	18.23	ppb
Sodium	23-2	-2.97	-0.92	-2.43	-2.11		ppb
Strontium	86-1	-0.04	-0.04	-0.03	-0.04		ppb
Strontium	88-1	-0.03	-0.03	-0.03	-0.03		ppb
Sulfur	34-1	-784.35	-839.37	-769.86	-797.86		ppb
Terbium	159-1				103		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	37.44	ppb
Thallium	205-1	0.01	0.00	0.00	0.00	36.05	ppb
Tin	118-1	-0.01	-0.01	-0.02	-0.01		ppb
Titanium	47-1	-0.04	-0.06	-0.06	-0.05		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	388.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	0.11	0.08	-0.02	0.06	120.33	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	37.00	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	42.31	42.79	44.10	43.07	2.15	ppb
Antimony	121-1	4.26	4.25	4.41	4.30	2.03	ppb
Arsenic	75-2	2.23	2.25	1.98	2.16	7.12	ppb
Barium	135-1	20.53	20.66	21.20	20.80	1.72	ppb
Barium	137-1	21.16	20.98	21.35	21.17	0.86	ppb
Beryllium	9-1	2.13	2.13	2.13	2.13	0.04	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.38	2.52	2.55	2.48	3.60	ppb
Cadmium	106-1	0.75	-0.04	0.50	0.41	99.68	ppb
Cadmium	111-1	2.10	2.06	2.11	2.09	1.21	ppb
Calcium	43-1	1088.25	1085.67	1107.36	1093.76	1.08	ppb
Calcium	44-1	1052.90	1079.72	1069.48	1067.37	1.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.96	4.01	3.96	3.98	0.68	ppb
Cobalt	59-2	2.20	2.19	2.18	2.19	0.59	ppb
Copper	63-2	4.52	4.52	4.49	4.51	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				101		%
Holmium	165-2				103		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	54-2	434.99	440.43	442.39	439.27	0.87	ppb
Iron	56-2	431.43	431.64	432.54	431.87	0.14	ppb
Iron	57-2	424.58	435.20	425.04	428.27	1.40	ppb
Krypton	83-1						cps
Lead	206-1	2.00	1.99	2.00	2.00	0.16	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.07	2.02	2.01	2.04	1.75	ppb
Lead	208-1	2.03	2.01	1.99	2.01	0.82	ppb
Lithium	6-1				107		%
Magnesium	24-2	1006.20	1006.22	998.56	1003.66	0.44	ppb
Manganese	55-2	2.01	2.13	2.05	2.06	2.86	ppb
Molybdenum	94-1	11.84	11.98	12.10	11.97	1.07	ppb
Molybdenum	95-1	9.86	9.90	10.30	10.02	2.40	ppb
Molybdenum	96-1	10.20	10.35	10.47	10.34	1.29	ppb
Molybdenum	97-1	9.92	10.23	10.21	10.12	1.67	ppb
Molybdenum	98-1	9.81	10.04	10.34	10.06	2.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.08	2.01	2.06	2.05	1.62	ppb
Phosphorus	31-2	27.21	33.22	20.52	26.98	23.54	ppb
Potassium	39-2	1036.66	1027.66	1018.88	1027.73	0.87	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				108		%
Selenium	82-1	10.58	10.13	11.63	10.78	7.10	ppb
Selenium	77-2	10.30	6.79	11.19	9.43	24.71	ppb
Selenium	78-2	11.63	12.45	14.24	12.77	10.43	ppb
Silicon	28-1	23.48	24.72	24.85	24.35	3.10	ppb
Silver	107-1	2.08	2.16	2.19	2.15	2.67	ppb
Silver	109-1	2.13	2.16	2.18	2.15	1.21	ppb
Sodium	23-2	1069.85	1074.81	1064.19	1069.62	0.50	ppb
Strontium	86-1	1.91	2.10	2.03	2.01	4.72	ppb
Strontium	88-1	1.97	1.99	2.07	2.01	2.47	ppb
Sulfur	34-1	-1022.63	-878.23	-794.16	-898.34		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	2.07	2.02	2.03	2.04	1.07	ppb
Thallium	205-1	2.04	2.03	2.03	2.03	0.37	ppb
Tin	118-1	10.58	10.68	10.81	10.69	1.09	ppb
Titanium	47-1	2.54	2.44	2.55	2.51	2.45	ppb
Uranium	238-1	1.87	1.88	1.87	1.87	0.31	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.75	10.54	10.39	10.56	1.70	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	10.33	10.49	10.33	10.38	0.87	ppb
Zirconium	90-1	1.98	2.03	2.05	2.02	1.81	ppb
Zirconium	91-1	1.97	1.99	1.98	1.98	0.42	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.88	8.23	7.75	7.95	3.10	ppb
Antimony	121-1	0.05	0.05	0.05	0.05	2.94	ppb
Arsenic	75-2	0.38	0.42	0.29	0.36	18.40	ppb
Barium	135-1	18.49	18.85	18.32	18.55	1.45	ppb
Barium	137-1	18.38	19.41	18.88	18.89	2.73	ppb
Beryllium	9-1	-0.01	0.00	-0.01	-0.01		ppb
Bismuth	209-1				93		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.02	0.04	0.04	38.81	ppb
Cadmium	106-1	-1.26	-0.50	-0.46	-0.74		ppb
Cadmium	111-1	-0.09	-0.04	-0.03	-0.06		ppb
Calcium	43-1	374945.38	382182.11	378143.76	378423.75	0.96	ppb
Calcium	44-1	369342.36	378084.91	371452.94	372960.07	1.22	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.46	0.48	0.37	0.44	13.37	ppb
Cobalt	59-2	0.02	0.02	0.03	0.02	11.96	ppb
Copper	63-2	-0.07	-0.07	-0.08	-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				100		%
Holmium	165-2				100		%
Indium	115-1				99		%
Indium	115-2				97		%
Iron	54-2	832.33	822.93	845.38	833.55	1.35	ppb
Iron	56-2	861.23	856.04	854.50	857.26	0.41	ppb
Iron	57-2	828.22	818.88	849.52	832.21	1.89	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.07	0.08	9.53	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.09	0.08	0.08	8.32	ppb
Lead	208-1	0.09	0.09	0.08	0.08	5.00	ppb
Lithium	6-1				102		%
Magnesium	24-2	115372.05	114712.95	117417.01	115834.00	1.22	ppb
Manganese	55-2	29.45	28.85	30.14	29.48	2.19	ppb
Molybdenum	94-1	0.47	0.44	0.43	0.45	4.07	ppb
Molybdenum	95-1	0.35	0.38	0.37	0.37	3.43	ppb
Molybdenum	96-1	0.36	0.35	0.36	0.36	1.97	ppb
Molybdenum	97-1	0.38	0.35	0.39	0.37	5.75	ppb
Molybdenum	98-1	0.35	0.36	0.37	0.36	2.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.14	0.11	0.24	0.16	38.58	ppb
Phosphorus	31-2	-2.59	-7.24	-16.73	-8.85		ppb
Potassium	39-2	3592.20	3548.37	3600.33	3580.30	0.78	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				101		%
Scandium	45-2				104		%
Selenium	82-1	0.48	0.75	1.15	0.80	41.92	ppb
Selenium	77-2	-0.31	0.60	-0.31	0.00		ppb
Selenium	78-2	0.26	0.00	1.35	0.54	134.40	ppb
Silicon	28-1	5575.50	5692.76	5550.32	5606.19	1.36	ppb
Silver	107-1	0.02	0.02	0.02	0.02	4.85	ppb
Silver	109-1	0.01	0.01	0.01	0.01	14.79	ppb
Sodium	23-2	31661.82	31845.38	32335.28	31947.49	1.09	ppb
Strontium	86-1	13988.20	13770.49	13947.12	13901.94	0.83	ppb
Strontium	88-1	14047.29	13802.44	13960.21	13936.65	0.89	ppb
Sulfur	34-1	405453.53	410350.89	405708.20	407170.87	0.68	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.01	0.01	0.01	20.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	21.90	ppb
Tin	118-1	0.95	0.94	0.92	0.94	1.80	ppb
Titanium	47-1	0.44	0.50	0.52	0.49	9.27	ppb
Uranium	238-1	0.21	0.21	0.20	0.21	1.57	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.11	0.11	0.11	11.23	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	1.93	1.84	1.66	1.81	7.41	ppb
Zirconium	90-1	0.08	0.08	0.08	0.08	5.74	ppb
Zirconium	91-1	0.09	0.08	0.08	0.08	4.69	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6120.53	6733.47	6024.12	6292.71	6.11	ppb
Antimony	121-1	0.13	0.15	0.13	0.14	5.82	ppb
Arsenic	75-2	13.92	15.11	13.64	14.22	5.47	ppb
Barium	135-1	61.94	62.33	63.67	62.65	1.45	ppb
Barium	137-1	62.01	62.76	63.86	62.88	1.48	ppb
Beryllium	9-1	0.27	0.25	0.24	0.25	4.96	ppb
Bismuth	209-1				103		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.18	0.11	0.14	26.71	ppb
Cadmium	106-1	-0.63	-0.53	-0.51	-0.56		ppb
Cadmium	111-1	-0.01	-0.01	0.01	0.00		ppb
Calcium	43-1	1553.81	1560.82	1605.62	1573.42	1.79	ppb
Calcium	44-1	1606.90	1581.39	1631.06	1606.45	1.55	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	14.31	15.63	14.08	14.67	5.69	ppb
Cobalt	59-2	7.95	8.73	7.82	8.17	6.04	ppb
Copper	63-2	27.02	30.02	26.35	27.80	7.03	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				104		%
Holmium	165-2				99		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	17690.27	19473.78	17272.69	18145.58	6.44	ppb
Iron	56-2	17495.32	19344.66	16867.81	17902.59	7.19	ppb
Iron	57-2	17252.54	19015.37	16941.64	17736.52	6.31	ppb
Krypton	83-1						cps
Lead	206-1	6.72	6.71	6.90	6.78	1.55	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.39	6.34	6.45	6.39	0.81	ppb
Lead	208-1	6.50	6.44	6.63	6.52	1.51	ppb
Lithium	6-1				108		%
Magnesium	24-2	2970.90	3304.07	2915.53	3063.50	6.86	ppb
Manganese	55-2	131.55	143.90	127.23	134.23	6.45	ppb
Molybdenum	94-1	0.53	0.82	2.08	1.14	72.07	ppb
Molybdenum	95-1	0.20	0.22	0.21	0.21	4.27	ppb
Molybdenum	96-1	0.27	0.25	0.27	0.26	4.03	ppb
Molybdenum	97-1	0.21	0.21	0.23	0.22	6.08	ppb
Molybdenum	98-1	0.22	0.20	0.21	0.21	3.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	20.62	22.58	20.09	21.09	6.22	ppb
Phosphorus	31-2	184.17	167.87	147.01	166.35	11.20	ppb
Potassium	39-2	177.62	205.22	202.41	195.09	7.79	ppb
Rhodium	103-1				105		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				101		%
Selenium	82-1	-0.01	0.07	0.21	0.09	122.26	ppb
Selenium	77-2	9.64	3.72	6.72	6.69	44.24	ppb
Selenium	78-2	2.11	0.61	1.27	1.33	56.40	ppb
Silicon	28-1	2264.31	2262.80	2400.82	2309.31	3.43	ppb
Silver	107-1	0.10	0.09	0.10	0.10	5.14	ppb
Silver	109-1	0.10	0.10	0.10	0.10	3.02	ppb
Sodium	23-2	38.00	55.69	35.00	42.90	26.06	ppb
Strontium	86-1	13.93	13.78	14.17	13.96	1.42	ppb
Strontium	88-1	13.82	13.83	14.31	13.99	2.00	ppb
Sulfur	34-1	-472.09	-658.16	-433.60	-521.28		ppb
Terbium	159-1				105		%
Terbium	159-2				98		%
Thallium	203-1	0.06	0.05	0.05	0.05	9.18	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	5.32	ppb
Tin	118-1	0.01	-0.02	-0.02	-0.01		ppb
Titanium	47-1	4.39	6.02	6.02	5.48	17.21	ppb
Uranium	238-1	0.11	0.11	0.11	0.11	0.72	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	17.20	19.14	17.03	17.79	6.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				100		%
Zinc	66-2	37.30	41.40	34.96	37.89	8.60	ppb
Zirconium	90-1	0.22	0.19	0.24	0.22	10.97	ppb
Zirconium	91-1	0.18	0.21	0.23	0.21	10.23	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5782.66	5937.85	6258.60	5993.04	4.05	ppb
Antimony	121-1	0.13	0.13	0.13	0.13	1.45	ppb
Arsenic	75-2	13.13	13.62	13.23	13.33	1.95	ppb
Barium	135-1	59.91	61.64	61.84	61.13	1.74	ppb
Barium	137-1	59.87	62.10	62.30	61.42	2.20	ppb
Beryllium	9-1	0.26	0.24	0.25	0.25	3.35	ppb
Bismuth	209-1				105		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.14	0.09	0.13	0.12	21.58	ppb
Cadmium	106-1	-1.18	-0.49	-0.05	-0.57		ppb
Cadmium	111-1	-0.05	0.01	0.05	0.00	1589.24	ppb
Calcium	43-1	1497.54	1518.41	1499.20	1505.05	0.77	ppb
Calcium	44-1	1531.91	1587.68	1524.09	1547.89	2.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	13.41	13.71	14.25	13.79	3.11	ppb
Cobalt	59-2	7.60	7.77	8.14	7.84	3.53	ppb
Copper	63-2	25.87	26.34	27.68	26.63	3.52	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				106		%
Holmium	165-2				102		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	17128.44	17166.35	17876.01	17390.27	2.42	ppb
Iron	56-2	16652.95	16717.50	17607.67	16992.71	3.14	ppb
Iron	57-2	16193.05	16623.95	17514.74	16777.25	4.02	ppb
Krypton	83-1						cps
Lead	206-1	6.25	6.29	6.45	6.33	1.69	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.88	5.98	6.04	5.97	1.37	ppb
Lead	208-1	5.99	6.08	6.18	6.09	1.57	ppb
Lithium	6-1				107		%
Magnesium	24-2	2807.75	2860.61	3024.39	2897.58	3.90	ppb
Manganese	55-2	123.72	126.12	131.82	127.22	3.27	ppb
Molybdenum	94-1	0.48	0.50	0.49	0.49	2.69	ppb
Molybdenum	95-1	0.19	0.20	0.19	0.19	1.64	ppb
Molybdenum	96-1	0.39	0.24	0.24	0.29	29.64	ppb
Molybdenum	97-1	0.19	0.18	0.20	0.19	4.94	ppb
Molybdenum	98-1	0.18	0.21	0.19	0.19	7.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.42	19.45	21.18	20.01	5.03	ppb
Phosphorus	31-2	127.15	164.37	172.30	154.61	15.59	ppb
Potassium	39-2	159.33	164.65	181.12	168.37	6.75	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				109		%
Scandium	45-2				106		%
Selenium	82-1	0.71	0.14	0.67	0.51	62.04	ppb
Selenium	77-2	9.29	4.95	4.27	6.17	44.18	ppb
Selenium	78-2	2.28	1.52	3.21	2.34	36.11	ppb
Silicon	28-1	2412.98	2281.59	2251.33	2315.30	3.71	ppb
Silver	107-1	0.07	0.08	0.09	0.08	10.45	ppb
Silver	109-1	0.08	0.08	0.08	0.08	1.56	ppb
Sodium	23-2	26.02	27.70	37.00	30.24	19.56	ppb
Strontium	86-1	12.73	13.29	13.23	13.08	2.36	ppb
Strontium	88-1	12.92	13.42	13.19	13.18	1.89	ppb
Sulfur	34-1	-1081.76	-1034.96	-1116.36	-1077.69		ppb
Terbium	159-1				106		%
Terbium	159-2				101		%
Thallium	203-1	0.04	0.04	0.05	0.04	10.09	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	8.37	ppb
Tin	118-1	-0.02	-0.03	-0.03	-0.03		ppb
Titanium	47-1	3.65	5.44	3.86	4.32	22.70	ppb
Uranium	238-1	0.10	0.11	0.30	0.17	65.55	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	16.53	16.81	17.83	17.06	4.03	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	35.42	35.57	37.40	36.13	3.05	ppb
Zirconium	90-1	0.52	0.18	0.20	0.30	63.48	ppb
Zirconium	91-1	0.21	0.19	0.17	0.19	10.60	ppb

600

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1185.86	1170.09	1181.89	1179.28	0.70	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	3.62	ppb
Arsenic	75-2	2.72	2.86	2.88	2.82	3.14	ppb
Barium	135-1	12.27	12.56	12.20	12.34	1.54	ppb
Barium	137-1	12.72	12.45	12.14	12.43	2.35	ppb
Beryllium	9-1	0.05	0.05	0.04	0.05	12.60	ppb
Bismuth	209-1				103		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.04	0.05	0.04	24.26	ppb
Cadmium	106-1	-0.57	-1.17	-1.07	-0.94		ppb
Cadmium	111-1	-0.04	-0.08	-0.08	-0.07		ppb
Calcium	43-1	309.95	313.56	312.82	312.11	0.61	ppb
Calcium	44-1	300.54	308.19	301.31	303.34	1.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.76	2.74	2.81	2.77	1.32	ppb
Cobalt	59-2	1.52	1.47	1.54	1.51	2.51	ppb
Copper	63-2	5.15	4.97	5.19	5.11	2.25	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				103		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	54-2	3396.72	3295.62	3391.22	3361.19	1.69	ppb
Iron	56-2	3430.21	3340.32	3394.33	3388.29	1.34	ppb
Iron	57-2	3362.70	3314.57	3327.66	3334.98	0.75	ppb
Krypton	83-1						cps
Lead	206-1	1.25	1.28	1.27	1.27	1.06	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.21	1.20	1.21	1.20	0.64	ppb
Lead	208-1	1.23	1.23	1.24	1.24	0.47	ppb
Lithium	6-1				106		%
Magnesium	24-2	574.27	562.38	569.19	568.62	1.05	ppb
Manganese	55-2	25.08	24.98	25.37	25.15	0.81	ppb
Molybdenum	94-1	0.13	0.09	0.08	0.10	26.45	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	4.71	ppb
Molybdenum	96-1	0.05	0.05	0.05	0.05	0.98	ppb
Molybdenum	97-1	0.03	0.03	0.04	0.03	13.73	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	5.36	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.04	3.83	3.94	3.94	2.62	ppb
Phosphorus	31-2	31.46	9.79	12.80	18.01	65.18	ppb
Potassium	39-2	34.81	34.61	35.99	35.14	2.12	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	-0.10	0.21	0.05	0.06	273.95	ppb
Selenium	77-2	1.43	1.46	-0.31	0.86	117.73	ppb
Selenium	78-2	0.74	-0.01	0.24	0.32	118.89	ppb
Silicon	28-1	456.61	463.09	460.45	460.05	0.71	ppb
Silver	107-1	0.02	0.02	0.01	0.02	19.40	ppb
Silver	109-1	0.01	0.02	0.02	0.02	8.13	ppb
Sodium	23-2	8.58	5.59	6.63	6.93	21.92	ppb
Strontium	86-1	2.62	2.58	2.72	2.64	2.67	ppb
Strontium	88-1	2.71	2.66	2.69	2.68	0.85	ppb
Sulfur	34-1	-861.10	-781.07	-978.68	-873.61		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.01	0.01	0.01	0.01	31.18	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	16.17	ppb
Tin	118-1	-0.07	-0.06	-0.06	-0.06		ppb
Titanium	47-1	0.67	1.38	0.76	0.94	41.10	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	5.48	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.37	3.30	3.24	3.30	1.95	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	7.26	7.44	7.64	7.45	2.56	ppb
Zirconium	90-1	0.03	0.04	0.05	0.04	17.19	ppb
Zirconium	91-1	0.04	0.03	0.05	0.04	24.86	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5861.59	5939.44	5911.28	5904.10	0.67	ppb
Antimony	121-1	5.33	5.38	5.40	5.37	0.67	ppb
Arsenic	75-2	15.75	15.82	16.65	16.08	3.10	ppb
Barium	135-1	157.52	161.28	161.89	160.23	1.48	ppb
Barium	137-1	162.49	162.13	160.43	161.68	0.68	ppb
Beryllium	9-1	2.72	2.68	2.68	2.69	0.75	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	2.58	2.82	2.56	2.65	5.44	ppb
Cadmium	106-1	1.83	1.61	1.65	1.70	7.04	ppb
Cadmium	111-1	2.69	2.64	2.54	2.62	2.89	ppb
Calcium	43-1	1735.13	1761.32	1756.07	1750.84	0.79	ppb
Calcium	44-1	1681.63	1743.82	1689.34	1704.93	1.99	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.10	23.66	23.50	23.42	1.22	ppb
Cobalt	59-2	32.49	32.92	33.12	32.84	0.99	ppb
Copper	63-2	38.13	38.68	38.72	38.51	0.85	ppb
Dysprosium	156-1						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				105		%
Indium	115-2				103		%
Iron	54-2	17011.13	17097.42	17037.73	17048.76	0.26	ppb
Iron	56-2	16430.19	16967.92	16656.89	16685.00	1.62	ppb
Iron	57-2	16160.89	16417.63	16404.64	16327.72	0.89	ppb
Krypton	83-1						cps
Lead	206-1	7.31	7.43	7.31	7.35	0.95	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	6.92	6.93	6.95	6.93	0.21	ppb
Lead	208-1	7.04	7.12	7.10	7.09	0.59	ppb
Lithium	6-1				108		%
Magnesium	24-2	2796.90	2853.05	2845.39	2831.78	1.08	ppb
Manganese	55-2	146.05	149.86	147.88	147.93	1.29	ppb
Molybdenum	94-1	21.19	21.60	21.79	21.53	1.43	ppb
Molybdenum	95-1	25.00	25.52	25.84	25.45	1.66	ppb
Molybdenum	96-1	24.67	25.60	25.07	25.11	1.87	ppb
Molybdenum	97-1	25.61	25.99	25.99	25.86	0.85	ppb
Molybdenum	98-1	25.04	25.68	25.66	25.46	1.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	44.57	45.10	45.63	45.10	1.17	ppb
Phosphorus	31-2	145.62	150.27	131.23	142.37	6.97	ppb
Potassium	39-2	159.20	163.31	162.03	161.51	1.30	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				108		%
Scandium	45-2				107		%
Selenium	82-1	0.98	1.25	1.08	1.11	12.34	ppb
Selenium	77-2	8.18	8.50	7.64	8.10	5.37	ppb
Selenium	78-2	4.45	1.28	2.83	2.85	55.68	ppb
Silicon	28-1	2289.32	2274.59	2256.08	2273.33	0.73	ppb
Silver	107-1	2.54	2.56	2.60	2.57	1.18	ppb
Silver	109-1	2.53	2.56	2.59	2.56	1.25	ppb
Sodium	23-2	23.02	25.35	24.77	24.38	4.99	ppb
Strontium	86-1	505.30	516.54	514.22	512.02	1.16	ppb
Strontium	88-1	498.56	503.13	503.41	501.70	0.54	ppb
Sulfur	34-1	-944.73	-1030.80	-1124.20	-1033.24		ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	2.44	2.46	2.43	2.45	0.73	ppb
Thallium	205-1	2.45	2.47	2.48	2.47	0.64	ppb
Tin	118-1	-0.02	-0.02	-0.03	-0.03		ppb
Titanium	47-1	4.66	4.19	3.91	4.25	8.81	ppb
Uranium	238-1	0.11	0.11	0.11	0.11	0.98	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	40.38	41.14	41.46	40.99	1.35	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				107		%
Zinc	66-2	59.73	60.48	60.43	60.21	0.69	ppb
Zirconium	90-1	0.27	0.20	0.17	0.21	23.51	ppb
Zirconium	91-1	0.31	0.21	0.19	0.24	27.93	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49473.08	50852.87	49571.92	49965.96	1.54	ppb
Antimony	121-1	500.02	494.86	504.80	499.89	0.99	ppb
Arsenic	75-2	487.40	491.14	504.57	494.37	1.83	ppb
Barium	135-1	2496.16	2493.42	2549.64	2513.07	1.26	ppb
Barium	137-1	2501.67	2474.06	2558.13	2511.29	1.71	ppb
Beryllium	9-1	500.52	507.65	513.65	507.27	1.30	ppb
Bismuth	209-1				89		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	490.12	489.13	497.07	492.11	0.88	ppb
Cadmium	106-1	485.95	486.92	498.25	490.38	1.40	ppb
Cadmium	111-1	494.44	489.39	489.82	491.22	0.57	ppb
Calcium	43-1	251891.84	256836.15	257808.16	255512.05	1.24	ppb
Calcium	44-1	251129.51	254691.67	258252.44	254691.21	1.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	494.07	509.62	501.30	501.66	1.55	ppb
Cobalt	59-2	483.63	500.88	494.21	492.91	1.76	ppb
Copper	63-2	4675.94	4785.34	4839.99	4767.09	1.75	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				99		%
Holmium	165-2				98		%
Indium	115-1				94		%
Indium	115-2				92		%
Iron	54-2	126998.97	126869.85	126346.19	126738.34	0.27	ppb
Iron	56-2	124234.33	124820.26	126837.43	125297.34	1.09	ppb
Iron	57-2	123184.09	125502.80	128336.49	125674.46	2.05	ppb
Krypton	83-1						cps
Lead	206-1	2522.20	2536.34	2554.74	2537.76	0.64	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2504.87	2554.04	2554.47	2537.79	1.12	ppb
Lead	208-1	2510.03	2528.91	2567.73	2535.56	1.16	ppb
Lithium	6-1				95		%
Magnesium	24-2	248488.64	254072.12	251785.19	251448.65	1.12	ppb
Manganese	55-2	4907.71	4910.09	4980.29	4932.70	0.84	ppb
Molybdenum	94-1	4970.75	5022.10	5000.65	4997.83	0.52	ppb
Molybdenum	95-1	4889.76	5034.01	5021.77	4981.85	1.61	ppb
Molybdenum	96-1	5018.54	4996.00	5009.63	5008.06	0.23	ppb
Molybdenum	97-1	5003.00	4979.73	5046.74	5009.82	0.68	ppb
Molybdenum	98-1	4948.35	4974.32	5009.33	4977.33	0.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	454.13	461.18	465.59	460.30	1.26	ppb
Phosphorus	31-2	10071.28	10178.72	10008.37	10086.12	0.85	ppb
Potassium	39-2	124622.77	124504.20	124051.56	124392.84	0.24	ppb
Rhodium	103-1				92		%
Rhodium	103-2				91		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	487.62	482.38	487.99	486.00	0.64	ppb
Selenium	77-2	488.48	506.20	518.79	504.49	3.02	ppb
Selenium	78-2	497.94	509.27	484.95	497.39	2.45	ppb
Silicon	28-1	495.28	503.58	512.53	503.80	1.71	ppb
Silver	107-1	479.98	485.27	491.56	485.60	1.19	ppb
Silver	109-1	482.97	480.11	492.81	485.30	1.37	ppb
Sodium	23-2	255912.08	259221.77	262756.68	259296.84	1.32	ppb
Strontium	86-1	504.63	506.68	504.67	505.33	0.23	ppb
Strontium	88-1	495.14	501.11	501.71	499.32	0.73	ppb
Sulfur	34-1	9714.57	9591.88	9677.16	9661.20	0.65	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	513.72	509.84	519.45	514.34	0.94	ppb
Thallium	205-1	505.56	503.58	514.11	507.75	1.10	ppb
Tin	118-1	494.57	492.56	511.79	499.64	2.12	ppb
Titanium	47-1	4907.00	4955.37	5009.43	4957.26	1.03	ppb
Uranium	238-1	502.77	501.12	520.47	508.12	2.11	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	490.40	493.86	496.20	493.49	0.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				100		%
Zinc	66-2	4799.76	4821.03	4892.93	4837.91	1.01	ppb
Zirconium	90-1	496.36	506.21	506.57	503.04	1.15	ppb
Zirconium	91-1	492.65	513.94	511.09	505.90	2.28	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.21	0.35	0.53	0.37	43.41	ppb
Antimony	121-1	0.11	0.10	0.09	0.10	9.96	ppb
Arsenic	75-2	-0.02	-0.02	0.01	-0.01		ppb
Barium	135-1	0.06	0.04	0.03	0.04	40.70	ppb
Barium	137-1	0.09	0.05	0.05	0.07	31.20	ppb
Beryllium	9-1	0.10	0.09	0.09	0.09	9.24	ppb
Bismuth	209-1				103		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.03	0.11	0.07	62.70	ppb
Cadmium	106-1	-2.03	-0.94	-2.09	-1.69		ppb
Cadmium	111-1	-0.15	-0.05	-0.14	-0.11		ppb
Calcium	43-1	4.61	4.53	3.57	4.24	13.59	ppb
Calcium	44-1	1.47	-1.02	-1.53	-0.36		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	656.28	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00		ppb
Copper	63-2	-0.08	-0.05	-0.04	-0.06		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				102		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	54-2	2.58	2.55	2.44	2.52	2.88	ppb
Iron	56-2	2.08	2.16	1.88	2.04	6.95	ppb
Iron	57-2	1.85	2.24	2.46	2.18	14.30	ppb
Krypton	83-1						cps
Lead	206-1	0.13	0.11	0.12	0.12	8.23	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.14	0.11	0.11	0.12	11.70	ppb
Lead	208-1	0.14	0.12	0.11	0.12	13.58	ppb
Lithium	6-1				105		%
Magnesium	24-2	-7.64	-8.31	-7.42	-7.79		ppb
Manganese	55-2	0.09	0.09	0.12	0.10	13.07	ppb
Molybdenum	94-1	0.17	0.10	0.11	0.13	29.44	ppb
Molybdenum	95-1	0.17	0.11	0.12	0.13	23.74	ppb
Molybdenum	96-1	0.16	0.13	0.10	0.13	25.47	ppb
Molybdenum	97-1	0.15	0.12	0.09	0.12	23.51	ppb
Molybdenum	98-1	0.17	0.13	0.10	0.13	27.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.17	0.19	0.28	0.21	27.26	ppb
Phosphorus	31-2	-15.11	-16.37	-11.62	-14.36		ppb
Potassium	39-2	9.76	10.98	8.69	9.81	11.67	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.26	0.08	0.44	0.26	69.22	ppb
Selenium	77-2	-0.31	0.57	-0.31	-0.02		ppb
Selenium	78-2	-0.27	0.50	1.56	0.60	154.39	ppb
Silicon	28-1	0.36	0.17	0.21	0.25	40.52	ppb
Silver	107-1	0.04	0.03	0.02	0.03	21.86	ppb
Silver	109-1	0.05	0.04	0.03	0.04	21.61	ppb
Sodium	23-2	20.93	20.89	19.72	20.51	3.38	ppb
Strontium	86-1	-0.03	-0.03	-0.04	-0.03		ppb
Strontium	88-1	-0.02	-0.02	-0.02	-0.02		ppb
Sulfur	34-1	-948.11	-935.85	-935.81	-939.92		ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.04	0.03	0.03	0.03	9.60	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	14.66	ppb
Tin	118-1	0.01	0.01	0.01	0.01	28.03	ppb
Titanium	47-1	0.08	0.06	0.05	0.06	23.17	ppb
Uranium	238-1	0.01	0.01	0.00	0.01	49.94	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.00	0.00	176.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				105		%
Zinc	66-2	0.23	0.12	0.15	0.17	33.12	ppb
Zirconium	90-1	0.01	0.02	0.01	0.01	29.26	ppb
Zirconium	91-1	0.02	0.02	0.00	0.01	78.92	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.24	10.40	11.98	10.87	8.83	ppb
Antimony	121-1	0.10	0.09	0.09	0.09	6.89	ppb
Arsenic	75-2	2.13	2.11	2.63	2.29	12.95	ppb
Barium	135-1	108.03	108.11	107.81	107.99	0.14	ppb
Barium	137-1	109.10	108.82	110.26	109.39	0.70	ppb
Beryllium	9-1	-0.01	0.00	0.00	0.00		ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.16	0.14	0.18	0.16	12.06	ppb
Cadmium	106-1	-1.29	-0.84	-1.27	-1.14		ppb
Cadmium	111-1	-0.09	-0.06	-0.09	-0.08		ppb
Calcium	43-1	179150.66	182068.35	180787.96	180668.99	0.81	ppb
Calcium	44-1	175066.85	176442.35	173722.09	175077.10	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.56	0.62	0.60	0.59	4.97	ppb
Cobalt	59-2	0.22	0.23	0.24	0.23	4.83	ppb
Copper	63-2	0.13	0.12	0.11	0.12	5.93	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				105		%
Holmium	165-2				103		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	54-2	678.60	686.20	694.65	686.48	1.17	ppb
Iron	56-2	686.37	697.54	703.91	695.94	1.28	ppb
Iron	57-2	682.70	680.93	685.44	683.02	0.33	ppb
Krypton	83-1						cps
Lead	206-1	0.21	0.15	0.12	0.16	26.25	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.19	0.18	0.13	0.17	20.95	ppb
Lead	208-1	0.20	0.17	0.13	0.17	22.07	ppb
Lithium	6-1				104		%
Magnesium	24-2	43606.28	44430.14	43271.05	43769.15	1.36	ppb
Manganese	55-2	49.17	50.25	49.46	49.63	1.13	ppb
Molybdenum	94-1	5.02	5.05	5.06	5.04	0.46	ppb
Molybdenum	95-1	5.84	5.84	5.75	5.81	0.86	ppb
Molybdenum	96-1	5.66	5.77	5.65	5.69	1.12	ppb
Molybdenum	97-1	5.78	5.85	5.89	5.84	0.97	ppb
Molybdenum	98-1	5.85	5.84	5.79	5.83	0.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.95	1.96	2.01	1.97	1.49	ppb
Phosphorus	31-2	49.76	35.70	43.70	43.05	16.38	ppb
Potassium	39-2	4300.19	4348.13	4316.28	4321.53	0.56	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	11.52	12.15	11.82	11.83	2.65	ppb
Selenium	77-2	9.36	19.10	11.13	13.20	39.33	ppb
Selenium	78-2	15.43	11.87	13.64	13.65	13.02	ppb
Silicon	28-1	7453.11	7604.85	7598.33	7552.10	1.14	ppb
Silver	107-1	0.00	0.01	0.00	0.00	29.00	ppb
Silver	109-1	0.00	0.00	0.00	0.00	58.84	ppb
Sodium	23-2	12723.72	13097.06	12758.02	12859.60	1.60	ppb
Strontium	86-1	17077.03	17056.06	16677.67	16936.92	1.33	ppb
Strontium	88-1	16711.54	17045.88	16533.99	16763.80	1.55	ppb
Sulfur	34-1	134369.39	135378.97	136554.16	135434.17	0.81	ppb
Terbium	159-1				106		%
Terbium	159-2				102		%
Thallium	203-1	0.02	0.02	0.01	0.02	23.52	ppb
Thallium	205-1	0.02	0.02	0.01	0.02	36.34	ppb
Tin	118-1	0.00	-0.01	-0.02	-0.01		ppb
Titanium	47-1	0.61	0.69	0.67	0.66	6.23	ppb
Uranium	238-1	1.57	1.59	1.54	1.57	1.64	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.80	0.82	0.81	0.81	1.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				105		%
Zinc	66-2	0.61	0.62	0.74	0.66	11.69	ppb
Zirconium	90-1	0.12	0.12	0.12	0.12	1.94	ppb
Zirconium	91-1	0.12	0.12	0.11	0.12	2.29	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1362.80	1360.08	1372.02	1364.97	0.46	ppb
Antimony	121-1	0.08	0.08	0.08	0.08	3.73	ppb
Arsenic	75-2	2.04	2.41	2.54	2.33	11.03	ppb
Barium	135-1	21.97	21.47	21.33	21.59	1.57	ppb
Barium	137-1	21.94	21.75	22.06	21.92	0.72	ppb
Beryllium	9-1	0.07	0.07	0.07	0.07	2.50	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.13	0.04	0.10	53.60	ppb
Cadmium	106-1	-0.71	-1.07	-1.00	-0.92		ppb
Cadmium	111-1	0.00	-0.05	0.00	-0.02		ppb
Calcium	43-1	11112.39	11046.38	11212.27	11123.68	0.75	ppb
Calcium	44-1	11028.71	11076.70	11099.48	11068.30	0.33	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.87	2.81	2.84	2.84	1.11	ppb
Cobalt	59-2	0.80	0.81	0.81	0.80	0.91	ppb
Copper	63-2	1.71	1.77	1.75	1.74	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				103		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	2204.76	2206.32	2214.67	2208.58	0.24	ppb
Iron	56-2	2241.21	2263.94	2254.25	2253.13	0.51	ppb
Iron	57-2	2185.60	2216.51	2188.68	2196.93	0.78	ppb
Krypton	83-1						cps
Lead	206-1	4.88	4.76	4.89	4.84	1.45	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.64	4.59	4.72	4.65	1.45	ppb
Lead	208-1	4.74	4.67	4.77	4.72	1.13	ppb
Lithium	6-1				103		%
Magnesium	24-2	2569.55	2579.51	2591.66	2580.24	0.43	ppb
Manganese	55-2	396.30	401.81	398.59	398.90	0.69	ppb
Molybdenum	94-1	0.29	0.28	0.26	0.28	6.39	ppb
Molybdenum	95-1	0.18	0.18	0.19	0.18	2.51	ppb
Molybdenum	96-1	0.20	0.19	0.19	0.19	1.89	ppb
Molybdenum	97-1	0.19	0.19	0.18	0.19	1.41	ppb
Molybdenum	98-1	0.18	0.17	0.18	0.18	0.90	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.10	2.24	2.20	2.18	3.45	ppb
Phosphorus	31-2	106.83	138.40	112.97	119.40	14.02	ppb
Potassium	39-2	2317.60	2346.35	2349.33	2337.76	0.75	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				105		%
Scandium	45-2				104		%
Selenium	82-1	13.02	12.87	12.32	12.74	2.91	ppb
Selenium	77-2	14.81	13.12	18.08	15.34	16.43	ppb
Selenium	78-2	10.14	12.31	15.34	12.60	20.72	ppb
Silicon	28-1	4262.71	4073.27	4215.02	4183.67	2.36	ppb
Silver	107-1	0.01	0.01	0.01	0.01	13.22	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.81	ppb
Sodium	23-2	28561.38	28939.09	28728.74	28743.07	0.66	ppb
Strontium	86-1	56.08	56.95	55.68	56.24	1.16	ppb
Strontium	88-1	58.63	58.46	57.63	58.24	0.93	ppb
Sulfur	34-1	3374.32	3162.55	3233.78	3256.89	3.31	ppb
Terbium	159-1				103		%
Terbium	159-2				101		%
Thallium	203-1	0.03	0.03	0.03	0.03	9.79	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	3.74	ppb
Tin	118-1	0.18	0.20	0.18	0.19	5.82	ppb
Titanium	47-1	48.66	48.85	49.72	49.08	1.15	ppb
Uranium	238-1	0.14	0.14	0.14	0.14	0.70	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.46	2.69	2.59	2.58	4.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				103		%
Zinc	66-2	12.77	12.79	12.41	12.66	1.66	ppb
Zirconium	90-1	0.06	0.08	0.07	0.07	9.81	ppb
Zirconium	91-1	0.07	0.08	0.07	0.07	5.35	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.59	-0.54	-0.50	-0.54		ppb
Antimony	121-1	0.00	0.00	0.00	0.00	68.68	ppb
Arsenic	75-2	-0.03	-0.03	-0.03	-0.03		ppb
Barium	135-1	-0.01	-0.01	-0.01	-0.01		ppb
Barium	137-1	0.01	0.00	0.01	0.01	45.15	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.13	0.05	0.07	82.50	ppb
Cadmium	106-1	-0.89	-0.82	-1.05	-0.92		ppb
Cadmium	111-1	-0.07	-0.07	-0.08	-0.07		ppb
Calcium	43-1	0.49	1.31	0.46	0.75	64.46	ppb
Calcium	44-1	-4.84	-5.48	-5.62	-5.31		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.02	0.00	-0.01		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.17	-0.18	-0.16	-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				102		%
Holmium	165-2				103		%
Indium	115-1				105		%
Indium	115-2				103		%
Iron	54-2	1.39	0.94	0.64	0.99	38.13	ppb
Iron	56-2	0.40	0.47	0.38	0.42	11.82	ppb
Iron	57-2	0.25	0.62	1.02	0.63	60.74	ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.03	-0.03	-0.03		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.03	-0.03	-0.02	-0.02		ppb
Lead	208-1	-0.02	-0.03	-0.02	-0.02		ppb
Lithium	6-1				106		%
Magnesium	24-2	-7.39	-7.49	-7.18	-7.35		ppb
Manganese	55-2	-0.01	0.03	0.02	0.01	139.18	ppb
Molybdenum	94-1	0.01	0.00	0.00	0.00	125.89	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	126.26	ppb
Molybdenum	96-1	0.00	0.00	-0.01	0.00		ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	168.27	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	3.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.22	0.28	0.25	0.25	11.44	ppb
Phosphorus	31-2	-10.63	-20.59	-14.25	-15.16		ppb
Potassium	39-2	5.38	2.98	5.89	4.75	32.74	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	0.00	0.20	0.11	0.10	93.69	ppb
Selenium	77-2	-0.31	-0.31	0.58	-0.01		ppb
Selenium	78-2	0.78	0.78	0.78	0.78	0.59	ppb
Silicon	28-1	-0.30	-0.55	-1.18	-0.68		ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	6.97	6.48	6.61	6.69	3.85	ppb
Strontium	86-1	0.06	0.04	0.02	0.04	58.56	ppb
Strontium	88-1	0.07	0.05	0.05	0.06	19.84	ppb
Sulfur	34-1	-403.22	-287.57	-373.72	-354.84		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	-0.08	-0.07	-0.03	-0.06		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00		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	0.06	0.05	0.01	0.04	68.22	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	155.02	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.39	41.76	43.68	41.94	3.94	ppb
Antimony	121-1	4.15	4.29	4.41	4.28	3.02	ppb
Arsenic	75-2	2.05	2.59	1.90	2.18	16.59	ppb
Barium	135-1	20.16	20.85	21.18	20.73	2.51	ppb
Barium	137-1	20.82	20.95	21.52	21.10	1.78	ppb
Beryllium	9-1	2.13	2.09	2.15	2.12	1.38	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	2.29	1.85	2.41	2.18	13.65	ppb
Cadmium	106-1	1.66	2.24	1.27	1.73	28.20	ppb
Cadmium	111-1	2.13	2.28	2.18	2.20	3.64	ppb
Calcium	43-1	1077.95	1120.27	1063.29	1087.17	2.72	ppb
Calcium	44-1	1046.62	1081.76	1047.19	1058.52	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	4.20	4.09	4.05	4.11	1.81	ppb
Cobalt	59-2	2.14	2.11	2.19	2.14	1.89	ppb
Copper	63-2	4.50	4.63	4.60	4.58	1.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				102		%
Indium	115-1				105		%
Indium	115-2				102		%
Iron	54-2	443.84	437.68	440.01	440.51	0.71	ppb
Iron	56-2	436.94	433.48	433.46	434.63	0.46	ppb
Iron	57-2	449.83	429.27	436.29	438.46	2.38	ppb
Krypton	83-1						cps
Lead	206-1	1.93	2.02	2.05	2.00	3.14	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.95	2.03	2.04	2.01	2.46	ppb
Lead	208-1	1.96	2.01	2.03	2.00	1.94	ppb
Lithium	6-1				106		%
Magnesium	24-2	1024.52	1010.01	1017.38	1017.31	0.71	ppb
Manganese	55-2	2.06	2.08	2.13	2.09	1.67	ppb
Molybdenum	94-1	11.74	11.96	11.88	11.86	0.92	ppb
Molybdenum	95-1	9.92	10.10	10.36	10.13	2.22	ppb
Molybdenum	96-1	10.21	10.29	10.35	10.28	0.67	ppb
Molybdenum	97-1	10.02	10.28	10.17	10.16	1.29	ppb
Molybdenum	98-1	9.87	10.10	10.04	10.00	1.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.42	2.45	2.35	2.41	1.95	ppb
Phosphorus	31-2	31.57	21.52	30.30	27.80	19.68	ppb
Potassium	39-2	1045.75	1035.06	1043.23	1041.35	0.54	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	11.28	10.85	11.11	11.08	1.95	ppb
Selenium	77-2	9.52	7.69	12.09	9.77	22.64	ppb
Selenium	78-2	7.32	9.62	9.06	8.67	13.84	ppb
Silicon	28-1	22.94	24.67	21.84	23.15	6.17	ppb
Silver	107-1	2.03	2.13	2.21	2.13	4.24	ppb
Silver	109-1	2.09	2.12	2.17	2.13	2.09	ppb
Sodium	23-2	1105.27	1094.88	1090.15	1096.77	0.71	ppb
Strontium	86-1	2.04	2.07	2.10	2.07	1.45	ppb
Strontium	88-1	2.06	2.04	2.04	2.05	0.31	ppb
Sulfur	34-1	-51.57	236.69	-225.14	-13.34		ppb
Terbium	159-1				104		%
Terbium	159-2				101		%
Thallium	203-1	2.01	2.06	2.05	2.04	1.35	ppb
Thallium	205-1	1.99	2.02	2.07	2.03	2.12	ppb
Tin	118-1	10.50	10.67	10.94	10.70	2.05	ppb
Titanium	47-1	2.44	2.53	2.43	2.47	2.19	ppb
Uranium	238-1	1.81	1.88	1.89	1.86	2.40	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.52	10.63	10.46	10.54	0.81	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	10.80	10.90	10.56	10.75	1.58	ppb
Zirconium	90-1	1.99	2.01	2.03	2.01	0.90	ppb
Zirconium	91-1	1.97	2.02	1.99	1.99	1.09	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.40	10.38	12.99	11.25	13.34	ppb
Antimony	121-1	0.00	0.01	0.01	0.01	14.53	ppb
Arsenic	75-2	0.06	-0.01	-0.01	0.01	454.74	ppb
Barium	135-1	2.19	2.39	2.26	2.28	4.48	ppb
Barium	137-1	2.25	2.32	2.40	2.32	3.09	ppb
Beryllium	9-1	-0.01	0.00	0.00	0.00	9167.55	ppb
Bismuth	209-1				96		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.12	0.13	0.13	3.25	ppb
Cadmium	106-1	-2.01	-1.50	-2.01	-1.84		ppb
Cadmium	111-1	-0.16	-0.12	-0.16	-0.15		ppb
Calcium	43-1	674.10	683.80	697.10	685.00	1.69	ppb
Calcium	44-1	702.50	721.92	720.73	715.05	1.52	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.19	0.22	0.28	0.23	19.19	ppb
Cobalt	59-2	0.03	0.02	0.03	0.03	22.21	ppb
Copper	63-2	0.36	0.31	0.29	0.32	10.13	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				100		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	7.49	7.53	7.15	7.39	2.85	ppb
Iron	56-2	6.39	6.28	6.33	6.33	0.90	ppb
Iron	57-2	7.01	8.04	6.80	7.28	9.11	ppb
Krypton	83-1						cps
Lead	206-1	0.07	0.07	0.08	0.07	6.80	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.08	0.10	0.09	11.08	ppb
Lead	208-1	0.08	0.07	0.08	0.08	6.25	ppb
Lithium	6-1				102		%
Magnesium	24-2	39.56	39.05	41.37	39.99	3.05	ppb
Manganese	55-2	3.86	3.78	3.81	3.82	1.06	ppb
Molybdenum	94-1	0.62	0.76	0.76	0.71	11.03	ppb
Molybdenum	95-1	0.07	0.08	0.07	0.07	13.01	ppb
Molybdenum	96-1	0.12	0.14	0.14	0.13	8.93	ppb
Molybdenum	97-1	0.06	0.07	0.06	0.06	12.39	ppb
Molybdenum	98-1	0.07	0.07	0.07	0.07	3.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.27	0.20	0.32	0.26	22.76	ppb
Phosphorus	31-2	239.07	254.77	256.73	250.19	3.87	ppb
Potassium	39-2	461.29	459.16	476.74	465.73	2.06	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	0.12	0.12	-0.05	0.06	151.08	ppb
Selenium	77-2	1.63	0.64	-0.31	0.65	147.89	ppb
Selenium	78-2	0.30	1.12	0.55	0.66	64.50	ppb
Silicon	28-1	6155.04	6222.13	6221.33	6199.50	0.62	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	83.13	ppb
Sodium	23-2	99501.06	99035.17	99892.09	99476.11	0.43	ppb
Strontium	86-1	11.97	12.36	12.65	12.32	2.77	ppb
Strontium	88-1	11.88	12.43	12.49	12.26	2.73	ppb
Sulfur	34-1	4057.15	4304.07	4029.27	4130.16	3.66	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.00	-0.01	0.00	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.13	0.16	0.15	0.14	8.90	ppb
Titanium	47-1	7.33	7.63	7.43	7.46	2.01	ppb
Uranium	238-1	0.01	0.02	0.02	0.02	8.29	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.23	0.20	0.22	0.22	6.97	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				97		%
Zinc	66-2	0.86	0.63	0.91	0.80	18.57	ppb
Zirconium	90-1	0.37	0.37	0.36	0.37	1.83	ppb
Zirconium	91-1	0.38	0.42	0.36	0.38	7.81	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.53	37.31	38.26	38.70	4.27	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	15.44	ppb
Arsenic	75-2	0.62	0.50	0.54	0.55	11.61	ppb
Barium	135-1	25.05	25.79	25.47	25.44	1.46	ppb
Barium	137-1	25.02	26.23	25.39	25.55	2.42	ppb
Beryllium	9-1	0.16	0.16	0.17	0.16	3.55	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.07	0.13	0.08	48.56	ppb
Cadmium	106-1	-1.75	-1.10	-1.81	-1.55		ppb
Cadmium	111-1	-0.12	-0.05	-0.12	-0.10		ppb
Calcium	43-1	1211.89	1229.29	1203.29	1214.82	1.09	ppb
Calcium	44-1	1229.89	1248.97	1251.17	1243.34	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.84	0.77	0.77	0.80	4.84	ppb
Cobalt	59-2	4.80	4.64	4.90	4.78	2.76	ppb
Copper	63-2	0.07	0.05	0.12	0.08	40.86	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				99		%
Holmium	165-2				103		%
Indium	115-1				101		%
Indium	115-2				102		%
Iron	54-2	404.53	382.51	408.65	398.56	3.53	ppb
Iron	56-2	402.70	383.70	404.81	397.07	2.93	ppb
Iron	57-2	409.08	381.00	396.91	395.66	3.56	ppb
Krypton	83-1						cps
Lead	206-1	0.15	0.16	0.15	0.15	2.94	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.15	0.15	0.15	2.07	ppb
Lead	208-1	0.15	0.15	0.15	0.15	0.82	ppb
Lithium	6-1				102		%
Magnesium	24-2	339.95	321.30	340.99	334.08	3.32	ppb
Manganese	55-2	122.05	116.93	121.92	120.30	2.43	ppb
Molybdenum	94-1	0.08	0.09	0.17	0.11	43.95	ppb
Molybdenum	95-1	0.04	0.05	0.05	0.05	6.00	ppb
Molybdenum	96-1	0.04	0.05	0.05	0.05	8.56	ppb
Molybdenum	97-1	0.03	0.04	0.05	0.04	26.32	ppb
Molybdenum	98-1	0.04	0.04	0.05	0.05	10.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.65	2.55	2.54	2.58	2.33	ppb
Phosphorus	31-2	10.84	11.79	18.85	13.83	31.66	ppb
Potassium	39-2	490.21	453.39	483.44	475.68	4.12	ppb
Rhodium	103-1				100		%
Rhodium	103-2				103		%
Scandium	45-1				101		%
Scandium	45-2				103		%
Selenium	82-1	0.14	0.28	0.35	0.26	40.09	ppb
Selenium	77-2	-0.31	0.57	0.60	0.28	180.33	ppb
Selenium	78-2	1.12	0.50	1.05	0.89	38.30	ppb
Silicon	28-1	8637.22	8625.41	8510.74	8591.12	0.81	ppb
Silver	107-1	0.00	0.00	0.00	0.00	2520.33	ppb
Silver	109-1	0.00	0.00	0.00	0.00	43.60	ppb
Sodium	23-2	10435.09	9841.13	10430.07	10235.43	3.34	ppb
Strontium	86-1	13.27	13.57	13.63	13.49	1.42	ppb
Strontium	88-1	13.29	13.59	13.65	13.51	1.41	ppb
Sulfur	34-1	3079.54	2713.42	2785.97	2859.64	6.78	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	0.00	0.00	0.00	0.00	28.90	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	232.89	ppb
Tin	118-1	0.19	0.21	0.20	0.20	5.06	ppb
Titanium	47-1	0.93	1.16	1.23	1.11	14.23	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	11.34	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.15	0.17	0.16	0.16	6.40	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	5.08	4.62	5.37	5.02	7.55	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	10.87	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	13.49	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	40.21	40.29	38.65	39.71	2.33	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	2.04	ppb
Arsenic	75-2	0.45	0.38	0.42	0.42	8.50	ppb
Barium	135-1	58.81	59.33	59.12	59.09	0.44	ppb
Barium	137-1	59.11	60.25	59.17	59.51	1.08	ppb
Beryllium	9-1	0.07	0.08	0.07	0.08	7.03	ppb
Bismuth	209-1				97		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.25	0.25	0.21	0.24	10.60	ppb
Cadmium	106-1	-0.92	-0.33	-1.35	-0.87		ppb
Cadmium	111-1	0.13	0.24	0.15	0.17	33.56	ppb
Calcium	43-1	8832.22	8890.80	8716.96	8813.33	1.00	ppb
Calcium	44-1	8905.28	8784.75	8711.77	8800.60	1.11	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.34	0.39	0.40	0.38	8.73	ppb
Cobalt	59-2	35.07	35.82	34.88	35.25	1.41	ppb
Copper	63-2	0.14	0.20	0.16	0.17	16.27	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				101		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				97		%
Iron	54-2	64.21	67.21	67.89	66.44	2.95	ppb
Iron	56-2	66.00	67.60	65.42	66.34	1.70	ppb
Iron	57-2	63.72	69.83	65.94	66.50	4.65	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.09	0.09	0.09	1.84	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.08	0.10	0.08	0.09	11.90	ppb
Lead	208-1	0.09	0.09	0.09	0.09	1.34	ppb
Lithium	6-1				101		%
Magnesium	24-2	1874.26	1903.86	1860.42	1879.51	1.18	ppb
Manganese	55-2	1272.15	1333.30	1299.57	1301.67	2.35	ppb
Molybdenum	94-1	0.12	0.15	0.14	0.14	9.45	ppb
Molybdenum	95-1	0.05	0.07	0.05	0.06	20.26	ppb
Molybdenum	96-1	0.07	0.05	0.06	0.06	14.50	ppb
Molybdenum	97-1	0.05	0.04	0.05	0.05	11.97	ppb
Molybdenum	98-1	0.06	0.04	0.05	0.05	11.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	11.91	12.18	11.82	11.97	1.59	ppb
Phosphorus	31-2	-3.79	-7.84	-6.25	-5.96		ppb
Potassium	39-2	1124.58	1127.91	1129.67	1127.39	0.23	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.66	0.42	0.99	0.69	41.26	ppb
Selenium	77-2	1.55	1.54	-0.31	0.93	115.41	ppb
Selenium	78-2	1.09	0.81	0.80	0.90	18.18	ppb
Silicon	28-1	6427.15	6451.81	6305.71	6394.89	1.22	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	190.07	ppb
Sodium	23-2	61324.30	61254.01	60417.90	60998.74	0.83	ppb
Strontium	86-1	53.32	53.42	53.44	53.39	0.12	ppb
Strontium	88-1	56.41	55.33	55.67	55.81	0.99	ppb
Sulfur	34-1	13991.52	13999.60	13867.39	13952.83	0.53	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.02	0.02	0.02	0.02	1.55	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	6.96	ppb
Tin	118-1	0.06	0.08	0.07	0.07	7.72	ppb
Titanium	47-1	1.01	1.38	1.14	1.17	15.94	ppb
Uranium	238-1	0.02	0.02	0.02	0.02	2.31	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.37	0.40	0.38	0.38	4.24	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	16.34	15.73	15.16	15.74	3.76	ppb
Zirconium	90-1	0.06	0.06	0.07	0.06	14.19	ppb
Zirconium	91-1	0.06	0.05	0.05	0.05	16.91	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	210.38	201.46	201.86	204.57	2.46	ppb
Antimony	121-1	0.04	0.04	0.05	0.04	13.15	ppb
Arsenic	75-2	35.92	36.23	35.43	35.86	1.12	ppb
Barium	135-1	270.31	273.29	276.84	273.48	1.20	ppb
Barium	137-1	281.60	274.01	281.87	279.16	1.60	ppb
Beryllium	9-1	0.01	0.02	0.02	0.01	27.64	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.28	0.25	0.13	0.22	35.73	ppb
Cadmium	106-1	-0.46	-0.78	-0.02	-0.42		ppb
Cadmium	111-1	0.13	0.13	0.19	0.15	22.92	ppb
Calcium	43-1	6912.72	6849.13	6936.42	6899.42	0.65	ppb
Calcium	44-1	6945.57	7024.19	7005.31	6991.69	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.87	0.81	0.77	0.82	5.95	ppb
Cobalt	59-2	18.45	18.50	18.25	18.40	0.70	ppb
Copper	63-2	0.28	0.33	0.35	0.32	10.86	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				101		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	50091.66	49686.71	50118.97	49965.78	0.48	ppb
Iron	56-2	50348.15	49678.04	49720.96	49915.72	0.75	ppb
Iron	57-2	51467.22	49974.62	50634.32	50692.05	1.48	ppb
Krypton	83-1						cps
Lead	206-1	0.36	0.34	0.35	0.35	1.80	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.34	0.36	0.36	0.35	3.14	ppb
Lead	208-1	0.35	0.35	0.43	0.38	11.06	ppb
Lithium	6-1				100		%
Magnesium	24-2	2796.41	2831.13	2823.57	2817.04	0.65	ppb
Manganese	55-2	1467.61	1451.27	1461.35	1460.08	0.56	ppb
Molybdenum	94-1	0.70	0.95	0.84	0.83	15.20	ppb
Molybdenum	95-1	0.50	0.50	0.49	0.50	1.28	ppb
Molybdenum	96-1	0.51	0.56	0.57	0.54	5.83	ppb
Molybdenum	97-1	0.48	0.50	0.50	0.49	1.98	ppb
Molybdenum	98-1	0.50	0.48	0.49	0.49	2.55	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	21.51	22.06	21.54	21.70	1.43	ppb
Phosphorus	31-2	165.84	152.70	164.76	161.10	4.53	ppb
Potassium	39-2	2656.00	2657.83	2659.69	2657.84	0.07	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.53	0.32	0.36	0.40	28.07	ppb
Selenium	77-2	3.39	2.48	4.40	3.42	27.98	ppb
Selenium	78-2	0.81	0.82	1.38	1.00	32.61	ppb
Silicon	28-1	15204.76	15057.78	14989.73	15084.09	0.73	ppb
Silver	107-1	0.00	0.00	0.00	0.00	32.44	ppb
Silver	109-1	0.00	0.00	0.00	0.00	26.64	ppb
Sodium	23-2	45946.41	46341.20	46159.82	46149.15	0.43	ppb
Strontium	86-1	46.98	47.36	47.50	47.28	0.56	ppb
Strontium	88-1	49.33	49.73	49.42	49.50	0.42	ppb
Sulfur	34-1	9496.79	8955.24	9534.58	9328.87	3.47	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	0.04	0.04	0.04	0.04	2.16	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	1.43	ppb
Tin	118-1	0.13	0.13	0.13	0.13	1.07	ppb
Titanium	47-1	4.99	4.60	4.86	4.82	4.16	ppb
Uranium	238-1	0.05	0.05	0.05	0.05	1.21	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.40	0.39	0.48	0.43	11.82	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	11.00	11.21	11.01	11.07	1.06	ppb
Zirconium	90-1	0.18	0.21	0.17	0.18	11.86	ppb
Zirconium	91-1	0.18	0.17	0.22	0.19	14.08	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7.09	5.64	6.34	6.35	11.43	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	9.87	ppb
Arsenic	75-2	0.03	0.02	0.03	0.03	25.51	ppb
Barium	135-1	98.35	100.00	97.69	98.68	1.21	ppb
Barium	137-1	99.96	100.57	99.03	99.86	0.77	ppb
Beryllium	9-1	-0.01	-0.01	-0.01	-0.01		ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.03	0.03	0.02	49.59	ppb
Cadmium	106-1	-0.95	-0.67	-1.78	-1.13		ppb
Cadmium	111-1	-0.07	-0.05	-0.13	-0.09		ppb
Calcium	43-1	35304.11	37781.69	36618.17	36567.99	3.39	ppb
Calcium	44-1	35529.99	36348.40	35840.83	35906.41	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.47	0.46	0.45	0.46	2.42	ppb
Cobalt	59-2	0.02	0.02	0.02	0.02	6.76	ppb
Copper	63-2	0.00	-0.01	-0.01	-0.01		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	135.99	138.74	141.59	138.77	2.02	ppb
Iron	56-2	137.22	134.89	139.77	137.29	1.78	ppb
Iron	57-2	135.07	133.93	134.17	134.39	0.45	ppb
Krypton	83-1						cps
Lead	206-1	0.45	0.44	0.46	0.45	2.82	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.43	0.42	0.43	0.42	1.58	ppb
Lead	208-1	0.43	0.42	0.43	0.43	1.47	ppb
Lithium	6-1				101		%
Magnesium	24-2	6086.54	5790.70	6072.90	5983.38	2.79	ppb
Manganese	55-2	31.44	31.89	32.68	32.00	1.97	ppb
Molybdenum	94-1	0.32	0.33	0.33	0.32	2.47	ppb
Molybdenum	95-1	0.37	0.36	0.39	0.37	3.60	ppb
Molybdenum	96-1	0.36	0.36	0.36	0.36	1.05	ppb
Molybdenum	97-1	0.37	0.37	0.38	0.37	2.06	ppb
Molybdenum	98-1	0.37	0.37	0.37	0.37	0.88	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.96	0.93	1.10	1.00	9.13	ppb
Phosphorus	31-2	227.01	245.15	214.82	228.99	6.67	ppb
Potassium	39-2	1584.86	1546.40	1576.16	1569.14	1.29	ppb
Rhodium	103-1				100		%
Rhodium	103-2				99		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.00	0.14	0.49	0.21	120.15	ppb
Selenium	77-2	-0.31	-0.31	0.62	0.00	115622.19	ppb
Selenium	78-2	0.27	0.27	0.27	0.27	0.91	ppb
Silicon	28-1	10351.73	10735.20	10734.27	10607.07	2.08	ppb
Silver	107-1	0.01	0.01	0.01	0.01	16.01	ppb
Silver	109-1	0.02	0.01	0.01	0.01	18.41	ppb
Sodium	23-2	10936.25	10572.08	11020.38	10842.90	2.20	ppb
Strontium	86-1	626.59	619.80	616.47	620.96	0.83	ppb
Strontium	88-1	624.66	620.94	613.09	619.56	0.95	ppb
Sulfur	34-1	-421.61	-197.49	-309.86	-309.65		ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	-0.01	0.00		ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.14	0.14	0.13	0.14	3.80	ppb
Titanium	47-1	0.76	0.77	0.74	0.76	1.59	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	32.20	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	31.87	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				100		%
Zinc	66-2	5.05	4.65	5.00	4.90	4.45	ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	63.54	ppb
Zirconium	91-1	0.01	0.01	0.00	0.01	44.43	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8.60	9.61	9.46	9.22	5.93	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	8.48	ppb
Arsenic	75-2	0.19	0.26	0.12	0.19	35.97	ppb
Barium	135-1	30.62	30.94	30.40	30.65	0.89	ppb
Barium	137-1	31.02	31.04	30.65	30.90	0.70	ppb
Beryllium	9-1	0.08	0.08	0.08	0.08	4.32	ppb
Bismuth	209-1				99		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.19	0.15	0.20	0.18	14.46	ppb
Cadmium	106-1	-0.98	-0.42	-1.09	-0.83		ppb
Cadmium	111-1	0.05	0.10	0.04	0.06	50.58	ppb
Calcium	43-1	3987.56	4068.19	4020.81	4025.52	1.01	ppb
Calcium	44-1	4079.54	4126.08	4126.33	4110.65	0.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.00	0.96	0.96	0.97	2.40	ppb
Cobalt	59-2	3.80	3.62	3.63	3.68	2.77	ppb
Copper	63-2	0.05	0.03	0.06	0.05	31.61	ppb
Dysprosium	156-1						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				97		%
Indium	115-1				100		%
Indium	115-2				94		%
Iron	54-2	190.16	184.87	183.27	186.10	1.94	ppb
Iron	56-2	188.36	182.19	181.89	184.15	1.98	ppb
Iron	57-2	182.60	181.91	184.83	183.12	0.83	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.11	0.09	0.10	7.11	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.10	0.10	0.10	3.55	ppb
Lead	208-1	0.09	0.10	0.10	0.10	5.17	ppb
Lithium	6-1				100		%
Magnesium	24-2	785.56	755.59	752.54	764.56	2.39	ppb
Manganese	55-2	122.42	117.08	118.97	119.49	2.26	ppb
Molybdenum	94-1	0.04	0.04	0.04	0.04	2.57	ppb
Molybdenum	95-1	0.03	0.04	0.04	0.04	11.53	ppb
Molybdenum	96-1	0.03	0.04	0.05	0.04	21.93	ppb
Molybdenum	97-1	0.04	0.03	0.04	0.04	13.15	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	6.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.87	4.64	4.47	4.66	4.37	ppb
Phosphorus	31-2	9.76	10.20	-5.04	4.97	174.53	ppb
Potassium	39-2	809.32	770.45	767.91	782.56	2.97	ppb
Rhodium	103-1				100		%
Rhodium	103-2				96		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	0.43	0.42	0.20	0.35	37.38	ppb
Selenium	77-2	0.67	-0.31	0.64	0.33	166.79	ppb
Selenium	78-2	0.30	0.01	0.56	0.29	96.53	ppb
Silicon	28-1	9495.03	9493.60	9427.00	9471.87	0.41	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	1022.17	ppb
Sodium	23-2	25333.96	24300.79	24036.29	24557.01	2.79	ppb
Strontium	86-1	24.81	25.44	24.87	25.04	1.40	ppb
Strontium	88-1	24.83	25.27	24.66	24.92	1.26	ppb
Sulfur	34-1	5246.99	5482.70	5204.63	5311.44	2.82	ppb
Terbium	159-1				102		%
Terbium	159-2				95		%
Thallium	203-1	0.00	0.01	0.01	0.01	29.44	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	44.65	ppb
Tin	118-1	0.10	0.12	0.08	0.10	17.92	ppb
Titanium	47-1	0.64	0.55	0.61	0.60	7.30	ppb
Uranium	238-1	0.00	0.01	0.01	0.01	9.39	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.21	0.18	0.16	0.18	15.32	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				97		%
Zinc	66-2	5.80	5.49	6.10	5.80	5.24	ppb
Zirconium	90-1	0.00	0.01	0.01	0.01	37.88	ppb
Zirconium	91-1	0.01	0.02	0.00	0.01	75.41	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	75.73	77.32	78.27	77.11	1.66	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	9.75	ppb
Arsenic	75-2	1.53	1.49	1.40	1.47	4.29	ppb
Barium	135-1	82.70	81.79	83.92	82.80	1.29	ppb
Barium	137-1	82.78	82.07	84.64	83.17	1.59	ppb
Beryllium	9-1	0.05	0.05	0.04	0.05	14.62	ppb
Bismuth	209-1				96		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.07	0.15	0.10	40.84	ppb
Cadmium	106-1	-0.83	-0.71	-0.41	-0.65		ppb
Cadmium	111-1	-0.06	-0.05	-0.03	-0.05		ppb
Calcium	43-1	13872.95	14184.69	14234.79	14097.48	1.39	ppb
Calcium	44-1	14194.51	14449.20	14379.23	14340.98	0.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.56	0.61	0.62	0.60	5.11	ppb
Cobalt	59-2	0.94	0.96	0.94	0.95	0.98	ppb
Copper	63-2	0.21	0.23	0.21	0.21	4.21	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				98		%
Indium	115-1				98		%
Indium	115-2				94		%
Iron	54-2	4776.60	4722.83	4740.46	4746.63	0.58	ppb
Iron	56-2	4722.32	4722.11	4856.86	4767.09	1.63	ppb
Iron	57-2	4738.48	4675.51	4715.36	4709.78	0.68	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.24	0.26	0.25	3.86	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.25	0.22	0.25	0.24	5.86	ppb
Lead	208-1	0.25	0.24	0.25	0.24	3.32	ppb
Lithium	6-1				101		%
Magnesium	24-2	6881.63	6943.81	6786.60	6870.68	1.15	ppb
Manganese	55-2	943.51	942.60	946.29	944.13	0.20	ppb
Molybdenum	94-1	0.56	0.47	0.51	0.51	8.49	ppb
Molybdenum	95-1	0.22	0.23	0.21	0.22	4.83	ppb
Molybdenum	96-1	0.23	0.22	0.25	0.23	5.72	ppb
Molybdenum	97-1	0.21	0.22	0.24	0.22	6.68	ppb
Molybdenum	98-1	0.19	0.22	0.20	0.21	7.42	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.78	12.53	12.63	12.65	1.00	ppb
Phosphorus	31-2	95.65	97.61	89.02	94.09	4.79	ppb
Potassium	39-2	1706.18	1683.07	1696.62	1695.29	0.68	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	1.38	1.23	1.58	1.40	12.63	ppb
Selenium	77-2	2.59	5.38	1.57	3.18	62.01	ppb
Selenium	78-2	1.14	1.12	1.10	1.12	1.80	ppb
Silicon	28-1	16226.98	16680.32	16478.31	16461.87	1.38	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	95987.89	94903.42	93150.31	94680.54	1.51	ppb
Strontium	86-1	125.26	124.32	126.83	125.47	1.01	ppb
Strontium	88-1	128.27	127.66	129.66	128.53	0.80	ppb
Sulfur	34-1	9980.82	9651.07	9841.40	9824.43	1.68	ppb
Terbium	159-1				100		%
Terbium	159-2				96		%
Thallium	203-1	0.00	0.00	0.00	0.00	245.19	ppb
Thallium	205-1	0.00	0.00	0.00	0.00		ppb
Tin	118-1	0.04	0.06	0.08	0.06	31.75	ppb
Titanium	47-1	2.57	2.56	2.63	2.59	1.40	ppb
Uranium	238-1	0.03	0.03	0.03	0.03	2.23	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.26	2.17	2.17	2.20	2.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	1.72	1.64	1.85	1.74	6.17	ppb
Zirconium	90-1	0.18	0.18	0.18	0.18	1.40	ppb
Zirconium	91-1	0.17	0.17	0.17	0.17	0.58	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	35.00	33.06	30.59	32.88	6.71	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	4.52	ppb
Arsenic	75-2	0.32	0.40	0.32	0.35	12.67	ppb
Barium	135-1	85.82	86.25	86.72	86.26	0.52	ppb
Barium	137-1	86.65	86.93	86.95	86.84	0.19	ppb
Beryllium	9-1	0.28	0.29	0.28	0.28	1.05	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.22	0.22	0.24	0.23	4.93	ppb
Cadmium	106-1	-0.72	-0.71	-1.65	-1.03		ppb
Cadmium	111-1	0.17	0.14	0.09	0.13	33.08	ppb
Calcium	43-1	5363.50	5424.79	5402.26	5396.85	0.57	ppb
Calcium	44-1	5454.61	5515.53	5580.97	5517.04	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.62	0.63	0.67	0.64	3.68	ppb
Cobalt	59-2	3.49	3.55	3.51	3.51	0.96	ppb
Copper	63-2	0.28	0.26	0.22	0.25	11.09	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				99		%
Holmium	165-2				99		%
Indium	115-1				99		%
Indium	115-2				96		%
Iron	54-2	211.72	214.93	209.89	212.18	1.20	ppb
Iron	56-2	214.44	213.73	208.08	212.09	1.64	ppb
Iron	57-2	214.36	214.64	209.92	212.97	1.24	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.03	0.02	26.96	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.04	0.03	22.46	ppb
Lead	208-1	0.02	0.03	0.03	0.03	6.35	ppb
Lithium	6-1				102		%
Magnesium	24-2	1679.08	1688.45	1637.76	1668.43	1.62	ppb
Manganese	55-2	213.61	214.68	209.88	212.73	1.19	ppb
Molybdenum	94-1	0.02	0.03	0.04	0.03	32.57	ppb
Molybdenum	95-1	0.02	0.03	0.02	0.02	27.31	ppb
Molybdenum	96-1	0.02	0.02	0.02	0.02	12.70	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	15.35	ppb
Molybdenum	98-1	0.03	0.03	0.02	0.03	17.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.03	9.01	9.00	9.01	0.21	ppb
Phosphorus	31-2	11.09	3.88	12.44	9.14	50.34	ppb
Potassium	39-2	798.83	796.50	782.95	792.76	1.08	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	0.72	0.53	0.53	0.59	18.71	ppb
Selenium	77-2	0.64	0.65	-0.31	0.33	167.75	ppb
Selenium	78-2	-0.27	0.29	-0.27	-0.08		ppb
Silicon	28-1	10313.26	10311.94	10382.90	10336.03	0.39	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	28694.16	28335.89	27424.25	28151.44	2.33	ppb
Strontium	86-1	57.04	57.83	57.21	57.36	0.72	ppb
Strontium	88-1	59.40	59.22	59.37	59.33	0.17	ppb
Sulfur	34-1	8162.84	7924.11	7932.09	8006.35	1.69	ppb
Terbium	159-1				100		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.00	0.00	0.00	103.05	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	39.26	ppb
Tin	118-1	0.05	0.04	0.07	0.05	21.53	ppb
Titanium	47-1	0.67	0.72	0.69	0.70	3.27	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	9.16	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.19	0.22	0.22	0.21	7.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	11.58	11.49	11.46	11.51	0.54	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	39.50	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	37.44	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33.00	31.73	31.60	32.11	2.41	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	15.16	ppb
Arsenic	75-2	0.25	0.34	0.33	0.31	16.51	ppb
Barium	135-1	82.66	86.65	84.90	84.73	2.36	ppb
Barium	137-1	83.59	87.32	86.55	85.82	2.30	ppb
Beryllium	9-1	0.28	0.30	0.29	0.29	2.85	ppb
Bismuth	209-1				99		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.22	0.26	0.25	0.24	8.56	ppb
Cadmium	106-1	-2.19	-1.16	-1.77	-1.71		ppb
Cadmium	111-1	0.01	0.12	0.08	0.07	77.85	ppb
Calcium	43-1	5414.38	5436.27	5351.10	5400.59	0.82	ppb
Calcium	44-1	5467.51	5432.18	5458.07	5452.59	0.34	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.06	1.04	1.03	1.04	1.46	ppb
Cobalt	59-2	3.49	3.49	3.49	3.49	0.08	ppb
Copper	63-2	0.24	0.23	0.30	0.26	15.14	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				99		%
Holmium	165-2				98		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	210.42	207.89	214.98	211.09	1.70	ppb
Iron	56-2	210.84	210.08	209.93	210.28	0.23	ppb
Iron	57-2	204.37	204.46	210.74	206.52	1.77	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.00	0.01	0.01	65.87	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.02	0.01	0.02	0.02	21.38	ppb
Lead	208-1	0.02	0.01	0.02	0.02	12.94	ppb
Lithium	6-1				101		%
Magnesium	24-2	1623.91	1642.37	1627.38	1631.22	0.60	ppb
Manganese	55-2	207.20	207.83	206.86	207.30	0.24	ppb
Molybdenum	94-1	0.04	0.03	0.04	0.04	12.95	ppb
Molybdenum	95-1	0.02	0.03	0.02	0.02	12.81	ppb
Molybdenum	96-1	0.02	0.03	0.02	0.03	14.08	ppb
Molybdenum	97-1	0.02	0.02	0.02	0.02	7.88	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	6.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.87	9.01	9.24	9.04	2.07	ppb
Phosphorus	31-2	20.54	9.10	-4.83	8.27	153.62	ppb
Potassium	39-2	790.47	791.20	785.61	789.09	0.39	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.19	0.09	0.21	0.16	39.50	ppb
Selenium	77-2	-0.31	-0.31	0.64	0.01	7797.28	ppb
Selenium	78-2	0.56	0.01	0.28	0.28	97.69	ppb
Silicon	28-1	10206.18	10425.09	10143.85	10258.37	1.44	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	27781.41	27857.02	27727.93	27788.79	0.23	ppb
Strontium	86-1	56.34	56.79	57.03	56.72	0.62	ppb
Strontium	88-1	59.53	60.04	58.53	59.37	1.30	ppb
Sulfur	34-1	7936.82	7863.05	7517.82	7772.56	2.88	ppb
Terbium	159-1				101		%
Terbium	159-2				97		%
Thallium	203-1	0.01	0.01	0.00	0.00	43.23	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	70.35	ppb
Tin	118-1	0.03	0.04	0.01	0.03	46.64	ppb
Titanium	47-1	0.71	0.64	0.61	0.65	7.60	ppb
Uranium	238-1	0.02	0.01	0.01	0.01	8.29	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.25	0.21	0.20	0.22	10.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				98		%
Zinc	66-2	11.65	11.48	11.34	11.49	1.35	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	22.82	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	13.31	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.54	7.08	6.02	6.55	8.05	ppb
Antimony	121-1	0.01	0.00	0.00	0.00	35.36	ppb
Arsenic	75-2	0.09	0.04	0.09	0.07	37.89	ppb
Barium	135-1	17.17	17.21	17.25	17.21	0.24	ppb
Barium	137-1	17.19	17.24	17.24	17.22	0.15	ppb
Beryllium	9-1	0.05	0.05	0.04	0.05	16.96	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.08	0.07	0.06	23.43	ppb
Cadmium	106-1	-0.96	-1.22	-2.02	-1.40		ppb
Cadmium	111-1	-0.03	-0.05	-0.13	-0.07		ppb
Calcium	43-1	1074.72	1104.45	1111.68	1096.95	1.79	ppb
Calcium	44-1	1079.57	1069.09	1092.41	1080.36	1.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.12	0.15	0.12	18.66	ppb
Cobalt	59-2	0.71	0.72	0.71	0.71	0.71	ppb
Copper	63-2	-0.08	-0.10	-0.08	-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				101		%
Indium	115-1				103		%
Indium	115-2				98		%
Iron	54-2	44.10	42.64	43.22	43.32	1.69	ppb
Iron	56-2	44.01	42.76	43.37	43.38	1.44	ppb
Iron	57-2	42.07	42.94	42.98	42.67	1.21	ppb
Krypton	83-1						cps
Lead	206-1	-0.03	-0.02	-0.02	-0.02		ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	-0.01	-0.01	-0.02	-0.01		ppb
Lead	208-1	-0.03	-0.02	-0.02	-0.02		ppb
Lithium	6-1				103		%
Magnesium	24-2	336.87	325.21	330.69	330.92	1.76	ppb
Manganese	55-2	43.39	42.00	43.34	42.91	1.85	ppb
Molybdenum	94-1	0.01	0.01	0.00	0.01	83.34	ppb
Molybdenum	95-1	0.01	0.01	0.01	0.01	11.13	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.01	39.68	ppb
Molybdenum	97-1	0.00	0.01	0.01	0.00	229.00	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	25.00	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.20	2.06	2.11	2.12	3.33	ppb
Phosphorus	31-2	-7.46	-10.92	-12.27	-10.21		ppb
Potassium	39-2	164.90	149.25	161.30	158.48	5.17	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	0.08	0.07	0.32	0.15	92.56	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.27	0.27	0.85	0.47	71.85	ppb
Silicon	28-1	2094.12	2094.12	2088.27	2092.17	0.16	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	5631.33	5619.89	5690.71	5647.31	0.67	ppb
Strontium	86-1	11.52	11.38	11.45	11.45	0.60	ppb
Strontium	88-1	11.39	11.33	11.57	11.43	1.08	ppb
Sulfur	34-1	1400.64	1319.66	1451.28	1390.53	4.77	ppb
Terbium	159-1				103		%
Terbium	159-2				98		%
Thallium	203-1	0.00	0.00	0.00	0.00		ppb
Thallium	205-1	0.00	-0.01	0.00	0.00		ppb
Tin	118-1	0.01	0.01	0.01	0.01	28.98	ppb
Titanium	47-1	0.10	0.08	0.14	0.10	29.86	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	46.05	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.04	0.04	0.05	0.04	11.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	2.08	2.33	2.47	2.29	8.73	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	67.83	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	122.57	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1878.50	1867.97	1920.47	1888.98	1.47	ppb
Antimony	121-1	102.75	107.72	105.40	105.29	2.36	ppb
Arsenic	75-2	40.15	39.85	40.22	40.07	0.49	ppb
Barium	135-1	2054.64	2136.92	2096.93	2096.16	1.96	ppb
Barium	137-1	2043.34	2140.91	2104.40	2096.22	2.35	ppb
Beryllium	9-1	45.73	48.87	47.27	47.29	3.32	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	41.04	43.77	43.09	42.63	3.34	ppb
Cadmium	106-1	38.14	40.74	40.85	39.91	3.84	ppb
Cadmium	111-1	49.86	52.41	51.25	51.17	2.49	ppb
Calcium	43-1	5378.57	5415.42	5457.45	5417.15	0.73	ppb
Calcium	44-1	5437.83	5485.62	5449.45	5457.64	0.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	195.58	197.06	196.16	196.27	0.38	ppb
Cobalt	59-2	520.99	526.57	529.17	525.58	0.79	ppb
Copper	63-2	262.48	262.84	264.21	263.17	0.35	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				97		%
Indium	115-1				100		%
Indium	115-2				96		%
Iron	54-2	1399.30	1414.49	1413.58	1409.12	0.60	ppb
Iron	56-2	1263.58	1234.46	1270.99	1256.34	1.54	ppb
Iron	57-2	1225.13	1237.00	1264.80	1242.31	1.64	ppb
Krypton	83-1						cps
Lead	206-1	19.75	20.12	19.95	19.94	0.94	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.62	19.79	19.50	19.63	0.74	ppb
Lead	208-1	19.66	19.86	19.68	19.73	0.56	ppb
Lithium	6-1				102		%
Magnesium	24-2	1644.27	1668.16	1692.15	1668.19	1.43	ppb
Manganese	55-2	689.17	685.40	695.95	690.17	0.77	ppb
Molybdenum	94-1	0.08	0.09	0.07	0.08	11.80	ppb
Molybdenum	95-1	0.05	0.04	0.03	0.04	19.73	ppb
Molybdenum	96-1	0.06	0.05	0.04	0.05	12.66	ppb
Molybdenum	97-1	0.05	0.03	0.04	0.04	19.29	ppb
Molybdenum	98-1	0.05	0.04	0.04	0.05	2.91	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	514.23	511.79	521.66	515.89	1.00	ppb
Phosphorus	31-2	0.98	-1.46	6.06	1.86	206.20	ppb
Potassium	39-2	794.49	794.21	811.47	800.06	1.24	ppb
Rhodium	103-1				98		%
Rhodium	103-2				97		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	19.02	18.95	20.10	19.35	3.32	ppb
Selenium	77-2	22.38	25.37	22.31	23.35	7.47	ppb
Selenium	78-2	22.15	19.50	19.05	20.23	8.28	ppb
Silicon	28-1	10464.99	10610.24	10501.13	10525.46	0.72	ppb
Silver	107-1	46.90	48.96	48.16	48.01	2.16	ppb
Silver	109-1	47.36	49.58	48.43	48.46	2.29	ppb
Sodium	23-2	27937.31	27806.32	28524.14	28089.26	1.36	ppb
Strontium	86-1	57.52	56.77	57.43	57.24	0.71	ppb
Strontium	88-1	59.62	59.98	58.23	59.28	1.56	ppb
Sulfur	34-1	8210.60	7863.98	7696.85	7923.81	3.31	ppb
Terbium	159-1				101		%
Terbium	159-2				98		%
Thallium	203-1	48.65	48.56	48.63	48.61	0.10	ppb
Thallium	205-1	50.95	50.28	50.52	50.58	0.67	ppb
Tin	118-1	0.12	0.13	0.12	0.12	4.96	ppb
Titanium	47-1	0.75	0.73	0.72	0.73	1.81	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	2.21	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	484.90	485.51	491.39	487.27	0.74	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				98		%
Zinc	66-2	509.59	513.20	526.10	516.30	1.68	ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	20.62	ppb
Zirconium	91-1	0.06	0.05	0.06	0.06	3.61	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	94.02	97.87	93.03	94.97	2.69	ppb
Antimony	121-1	0.04	0.07	0.04	0.05	37.05	ppb
Arsenic	75-2	0.94	1.07	1.10	1.04	8.23	ppb
Barium	135-1	47.80	107.35	53.36	69.50	47.33	ppb
Barium	137-1	48.59	110.09	53.95	70.88	48.06	ppb
Beryllium	9-1	0.19	0.52	0.22	0.31	56.98	ppb
Bismuth	209-1				78		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.20	0.11	0.12	63.02	ppb
Cadmium	106-1	-0.94	-0.15	-1.01	-0.70		ppb
Cadmium	111-1	-0.07	0.01	-0.08	-0.04		ppb
Calcium	43-1	12813.70	29534.30	14545.77	18964.59	48.48	ppb
Calcium	44-1	13061.15	29327.27	14510.94	18966.46	47.46	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.11	1.29	1.17	1.19	7.76	ppb
Cobalt	59-2	7.43	7.93	7.25	7.53	4.66	ppb
Copper	63-2	0.27	0.34	0.22	0.28	20.82	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				80		%
Holmium	165-2				101		%
Indium	115-1				80		%
Indium	115-2				99		%
Iron	54-2	17430.43	18575.01	17664.02	17889.82	3.38	ppb
Iron	56-2	17215.40	18294.75	16947.91	17486.02	4.08	ppb
Iron	57-2	16748.92	18173.61	16642.49	17188.34	4.97	ppb
Krypton	83-1						cps
Lead	206-1	1.12	2.63	1.31	1.69	48.80	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.04	2.47	1.21	1.57	49.47	ppb
Lead	208-1	1.08	2.56	1.24	1.63	50.06	ppb
Lithium	6-1				81		%
Magnesium	24-2	6203.07	6766.62	6069.14	6346.28	5.83	ppb
Manganese	55-2	1143.99	1229.99	1146.21	1173.40	4.18	ppb
Molybdenum	94-1	0.44	1.03	0.48	0.65	50.42	ppb
Molybdenum	95-1	0.15	0.38	0.18	0.24	51.34	ppb
Molybdenum	96-1	0.19	0.47	0.22	0.29	53.02	ppb
Molybdenum	97-1	0.17	0.39	0.19	0.25	49.08	ppb
Molybdenum	98-1	0.15	0.36	0.18	0.23	49.50	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.23	8.85	8.33	8.47	3.98	ppb
Phosphorus	31-2	686.74	706.71	624.99	672.82	6.33	ppb
Potassium	39-2	714.84	791.95	713.42	740.07	6.07	ppb
Rhodium	103-1				78		%
Rhodium	103-2				99		%
Scandium	45-1				80		%
Scandium	45-2				100		%
Selenium	82-1	0.43	0.84	0.66	0.64	32.36	ppb
Selenium	77-2	-0.31	0.66	-0.31	0.01	3935.43	ppb
Selenium	78-2	0.00	0.58	1.33	0.63	105.27	ppb
Silicon	28-1	12258.72	28458.38	13792.24	18169.78	49.22	ppb
Silver	107-1	0.04	0.06	0.02	0.04	56.29	ppb
Silver	109-1	0.02	0.06	0.02	0.03	64.94	ppb
Sodium	23-2	45723.02	49322.98	46206.65	47084.22	4.15	ppb
Strontium	86-1	135.45	304.53	152.31	197.43	47.17	ppb
Strontium	88-1	140.83	308.92	154.83	201.53	46.28	ppb
Sulfur	34-1	15395.24	49231.33	18755.77	27794.12	67.07	ppb
Terbium	159-1				80		%
Terbium	159-2				98		%
Thallium	203-1	0.02	0.07	0.02	0.04	71.86	ppb
Thallium	205-1	0.02	0.05	0.02	0.03	66.94	ppb
Tin	118-1	0.03	0.29	0.02	0.11	130.76	ppb
Titanium	47-1	3.47	8.43	3.86	5.25	52.53	ppb
Uranium	238-1	0.01	0.04	0.02	0.02	53.33	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.58	0.61	0.54	0.57	5.93	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				80		%
Yttrium	89-2				100		%
Zinc	66-2	59.68	62.45	56.77	59.63	4.77	ppb
Zirconium	90-1	0.17	0.36	0.17	0.23	47.29	ppb
Zirconium	91-1	0.17	0.34	0.19	0.23	41.06	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49060.38	48671.98	49273.70	49002.02	0.62	ppb
Antimony	121-1	487.08	497.49	501.08	495.22	1.47	ppb
Arsenic	75-2	500.23	491.67	504.68	498.86	1.32	ppb
Barium	135-1	2464.98	2508.90	2551.62	2508.50	1.73	ppb
Barium	137-1	2448.44	2539.70	2545.93	2511.36	2.17	ppb
Beryllium	9-1	500.74	509.40	508.95	506.37	0.96	ppb
Bismuth	209-1				90		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	484.05	499.97	503.24	495.76	2.07	ppb
Cadmium	106-1	491.27	494.28	500.78	495.44	0.98	ppb
Cadmium	111-1	484.62	486.87	496.61	489.37	1.30	ppb
Calcium	43-1	249315.78	247039.58	254807.67	250387.68	1.59	ppb
Calcium	44-1	247412.40	247177.16	253574.37	249387.98	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	499.19	493.01	496.64	496.28	0.63	ppb
Cobalt	59-2	499.36	492.00	488.37	493.24	1.14	ppb
Copper	63-2	4827.30	4737.41	4756.50	4773.74	0.99	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				96		%
Indium	115-1				93		%
Indium	115-2				89		%
Iron	54-2	126192.99	124457.54	121671.80	124107.44	1.84	ppb
Iron	56-2	124857.77	121512.50	121279.02	122549.76	1.63	ppb
Iron	57-2	126238.35	122857.33	122059.36	123718.35	1.79	ppb
Krypton	83-1						cps
Lead	206-1	2548.91	2551.82	2524.92	2541.88	0.58	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2505.14	2561.60	2536.04	2534.26	1.12	ppb
Lead	208-1	2507.66	2553.75	2540.27	2533.89	0.94	ppb
Lithium	6-1				94		%
Magnesium	24-2	247372.63	243838.34	244201.21	245137.39	0.79	ppb
Manganese	55-2	5060.60	4922.91	4873.95	4952.49	1.95	ppb
Molybdenum	94-1	4977.90	5001.35	5000.17	4993.14	0.26	ppb
Molybdenum	95-1	4968.12	4951.68	5027.77	4982.52	0.80	ppb
Molybdenum	96-1	5040.25	4943.23	5000.84	4994.77	0.98	ppb
Molybdenum	97-1	5005.79	4975.51	5002.18	4994.49	0.33	ppb
Molybdenum	98-1	4959.90	4960.31	5018.20	4979.47	0.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	466.92	462.75	459.81	463.16	0.77	ppb
Phosphorus	31-2	9774.01	9914.78	9883.01	9857.27	0.75	ppb
Potassium	39-2	123230.91	120462.83	121181.40	121625.05	1.18	ppb
Rhodium	103-1				90		%
Rhodium	103-2				87		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	480.30	491.64	490.55	487.49	1.28	ppb
Selenium	77-2	486.56	496.79	506.41	496.59	2.00	ppb
Selenium	78-2	486.94	476.25	502.77	488.65	2.73	ppb
Silicon	28-1	504.27	507.00	519.09	510.12	1.55	ppb
Silver	107-1	478.17	478.30	498.65	485.04	2.43	ppb
Silver	109-1	479.01	477.74	490.45	482.40	1.45	ppb
Sodium	23-2	262256.14	254040.19	252161.53	256152.62	2.10	ppb
Strontium	86-1	503.74	497.95	517.28	506.32	1.96	ppb
Strontium	88-1	499.62	497.02	505.21	500.62	0.84	ppb
Sulfur	34-1	9951.61	10370.10	10174.75	10165.48	2.06	ppb
Terbium	159-1				99		%
Terbium	159-2				95		%
Thallium	203-1	515.11	517.85	510.56	514.50	0.72	ppb
Thallium	205-1	509.32	509.73	512.34	510.46	0.32	ppb
Tin	118-1	488.26	500.73	506.55	498.51	1.87	ppb
Titanium	47-1	4934.84	4947.40	5077.07	4986.44	1.58	ppb
Uranium	238-1	503.40	511.75	511.83	508.99	0.95	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	498.23	490.50	488.84	492.52	1.02	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				96		%
Zinc	66-2	4878.65	4819.72	4842.29	4846.89	0.61	ppb
Zirconium	90-1	499.50	503.17	511.32	504.66	1.20	ppb
Zirconium	91-1	505.67	497.90	508.49	504.02	1.09	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.12	0.04	0.44	0.20	105.48	ppb
Antimony	121-1	0.13	0.12	0.12	0.12	6.70	ppb
Arsenic	75-2	0.00	-0.03	0.00	-0.01		ppb
Barium	135-1	0.07	0.08	0.10	0.08	15.51	ppb
Barium	137-1	0.11	0.08	0.08	0.09	17.89	ppb
Beryllium	9-1	0.12	0.12	0.09	0.11	15.38	ppb
Bismuth	209-1				102		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.06	-0.01	0.06	0.03	115.61	ppb
Cadmium	106-1	-0.06	-1.33	-0.82	-0.73		ppb
Cadmium	111-1	0.02	-0.08	-0.04	-0.04		ppb
Calcium	43-1	8.86	3.58	5.00	5.81	47.01	ppb
Calcium	44-1	-0.33	-1.76	-2.81	-1.63		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.03	0.07	0.09	0.07	46.05	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	26.46	ppb
Copper	63-2	-0.09	-0.05	-0.11	-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				101		%
Holmium	165-2				98		%
Indium	115-1				102		%
Indium	115-2				97		%
Iron	54-2	3.68	2.57	2.80	3.02	19.52	ppb
Iron	56-2	3.35	2.73	3.07	3.05	10.18	ppb
Iron	57-2	3.56	3.42	2.88	3.29	10.91	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.14	0.12	0.14	14.17	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.13	0.11	0.13	15.27	ppb
Lead	208-1	0.17	0.14	0.13	0.14	14.90	ppb
Lithium	6-1				104		%
Magnesium	24-2	-3.69	-4.89	-4.30	-4.29		ppb
Manganese	55-2	0.19	0.16	0.20	0.18	13.26	ppb
Molybdenum	94-1	0.19	0.16	0.17	0.17	9.56	ppb
Molybdenum	95-1	0.20	0.18	0.15	0.18	13.98	ppb
Molybdenum	96-1	0.20	0.17	0.15	0.18	16.53	ppb
Molybdenum	97-1	0.19	0.17	0.14	0.17	14.95	ppb
Molybdenum	98-1	0.19	0.17	0.16	0.17	7.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.12	0.13	0.11	0.12	5.33	ppb
Phosphorus	31-2	-18.21	-13.93	-14.71	-15.62		ppb
Potassium	39-2	7.40	8.51	8.63	8.18	8.30	ppb
Rhodium	103-1				103		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				100		%
Selenium	82-1	0.05	0.18	0.20	0.14	55.56	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.55	1.11	0.54	0.73	44.32	ppb
Silicon	28-1	1.76	1.27	1.08	1.37	25.57	ppb
Silver	107-1	0.05	0.04	0.04	0.04	17.87	ppb
Silver	109-1	0.04	0.04	0.04	0.04	10.83	ppb
Sodium	23-2	35.57	32.70	33.26	33.84	4.51	ppb
Strontium	86-1	-0.04	-0.04	-0.04	-0.04		ppb
Strontium	88-1	-0.02	-0.02	-0.02	-0.02		ppb
Sulfur	34-1	-261.73	-393.75	-362.21	-339.23		ppb
Terbium	159-1				103		%
Terbium	159-2				99		%
Thallium	203-1	0.04	0.03	0.03	0.04	22.86	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	10.34	ppb
Tin	118-1	0.02	0.01	0.00	0.01	88.92	ppb
Titanium	47-1	0.07	0.07	0.00	0.05	93.87	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	12.61	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.02	0.00	0.01	0.01	83.61	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				99		%
Zinc	66-2	0.28	0.22	0.35	0.28	22.70	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	12.83	ppb
Zirconium	91-1	0.03	0.02	0.02	0.02	29.03	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103	127	110	113	10.61	cps
Antimony	121-1	57	40	60	52	20.52	cps
Arsenic	75-2	17	0	17	11	86.60	cps
Barium	135-1	253	270	253	259	3.72	cps
Barium	137-1	307	357	353	339	8.25	cps
Beryllium	9-1	366	360	359	362	1.11	cps
Bismuth	209-1	13275325	13140858	13103762	13173315	0.69	cps
Bismuth	209-2	4988262	4906578	4955423	4950088	0.83	cps
Bromine	81-1	3557	3821	3520	3633	4.51	cps
Cadmium	108-1	13	17	30	20	44.10	cps
Cadmium	106-1	8193	8269	8346	8269	0.93	cps
Cadmium	111-1	5752	5787	5844	5794	0.81	cps
Calcium	43-1	420	387	450	419	7.56	cps
Calcium	44-1	29641	29133	28993	29255	1.17	cps
Carbon	12-1	3404220	3349154	3328299	3360557	1.17	cps
Carbon	12-2	23021	22427	22788	22745	1.32	cps
Chlorine	35-1	127939	127697	126887	127508	0.43	cps
Chlorine	35-2	477	520	493	497	4.40	cps
Chromium	52-2	717	713	810	747	7.35	cps
Cobalt	59-2	153	173	197	174	12.43	cps
Copper	63-2	3527	3374	3324	3408	3.11	cps
Dysprosium	156-1	147	103	160	137	21.68	cps
Dysprosium	156-2	3	0	7	3	100.05	cps
Erbium	164-1	133	93	140	122	20.65	cps
Erbium	164-2	40	27	30	32	21.53	cps
Gadolinium	160-1	133	157	117	136	14.82	cps
Gadolinium	160-2	17	20	40	26	49.38	cps
Holmium	165-1	20745007	20390432	20532713	20556051	0.87	cps
Holmium	165-2	6570019	6536123	6438593	6514912	1.05	cps
Indium	115-1	15990482	16095920	16025387	16037263	0.33	cps
Indium	115-2	1383269	1384341	1391629	1386413	0.33	cps
Iron	54-2	383	400	307	363	13.70	cps
Iron	56-2	5831	6001	6128	5987	2.49	cps
Iron	57-2	130	127	157	138	11.93	cps
Krypton	83-1	340	273	243	286	17.33	cps
Lead	206-1	2120	2087	2240	2149	3.75	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1710	1823	1670	1735	4.59	cps
Lead	208-1	8051	8355	8034	8147	2.21	cps
Lithium	6-1	7490438	7316961	7462925	7423441	1.26	cps
Magnesium	24-2	4121	3911	4371	4134	5.57	cps
Manganese	55-2	140	163	190	164	15.21	cps
Molybdenum	94-1	440	380	353	391	11.35	cps
Molybdenum	95-1	173	147	137	152	12.45	cps
Molybdenum	96-1	237	263	237	246	6.27	cps
Molybdenum	97-1	110	137	120	122	11.02	cps
Molybdenum	98-1	213	200	177	197	9.44	cps
Neodymium	150-1	17	7	7	10	57.72	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	907	930	897	911	1.88	cps
Phosphorus	31-2	70	97	93	87	16.77	cps
Potassium	39-2	9537	9210	9467	9404	1.83	cps
Rhodium	103-1	14912726	14564954	14726231	14734637	1.18	cps
Rhodium	103-2	5463921	5364977	5413198	5414032	0.91	cps
Scandium	45-1	10482385	10523577	10387300	10464421	0.67	cps
Scandium	45-2	183202	183361	188006	184856	1.48	cps
Selenium	82-1	-77	-30	0	-36	-108.66	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	0	7	3	100.05	cps
Silicon	28-1	513562	513497	512737	513265	0.09	cps
Silver	107-1	247	233	217	232	6.47	cps
Silver	109-1	73	53	73	67	17.32	cps
Sodium	23-2	57104	56526	56874	56834	0.51	cps
Strontium	86-1	730	830	783	781	6.41	cps
Strontium	88-1	2950	2874	2654	2826	5.45	cps
Sulfur	34-1	748981	749440	741213	746544	0.62	cps
Terbium	159-1	20338462	20804449	20860423	20667778	1.39	cps
Terbium	159-2	6329934	6305846	6337854	6324544	0.26	cps
Thallium	203-1	343	407	387	379	8.55	cps
Thallium	205-1	883	993	897	924	6.49	cps
Tin	118-1	3200	3187	3210	3199	0.37	cps
Titanium	47-1	633	547	740	640	15.14	cps
Uranium	238-1	133	210	150	164	24.52	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:05:13	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	23	10	16	44.60	cps
Ytterbium	172-1	117	123	137	126	8.11	cps
Ytterbium	172-2	27	53	23	34	47.73	cps
Ytterbium	176-1	2584	2007	1977	2189	15.62	cps
Ytterbium	176-2	337	397	383	372	8.46	cps
Yttrium	89-1	27036724	26993352	27119239	27049772	0.24	cps
Yttrium	89-2	1699120	1719689	1723718	1714176	0.77	cps
Zinc	66-2	237	183	167	196	18.70	cps
Zirconium	90-1	903	917	920	913	0.97	cps
Zirconium	91-1	193	157	173	174	10.52	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1293	1397	1263	1318	5.31	cps
Antimony	121-1	36368	36245	36582	36398	0.47	cps
Arsenic	75-2	303	340	320	321	5.72	cps
Barium	135-1	42958	43680	43994	43544	1.22	cps
Barium	137-1	76106	75060	75891	75686	0.73	cps
Beryllium	9-1	6302	6256	6279	6279	0.37	cps
Bismuth	209-1	13305169	13319359	13198515	13274348	0.50	cps
Bismuth	209-2	4897531	5006140	5001587	4968419	1.24	cps
Bromine	81-1	3884	3764	3891	3846	1.85	cps
Cadmium	108-1	353	400	370	374	6.32	cps
Cadmium	106-1	8796	8256	8700	8584	3.36	cps
Cadmium	111-1	10444	10143	10441	10343	1.67	cps
Calcium	43-1	28308	28715	28796	28606	0.91	cps
Calcium	44-1	479668	486118	482908	482898	0.67	cps
Carbon	12-1	3363525	3372602	3371157	3369095	0.14	cps
Carbon	12-2	22377	23045	22674	22699	1.47	cps
Chlorine	35-1	126567	126605	128729	127300	0.97	cps
Chlorine	35-2	393	443	443	427	6.77	cps
Chromium	52-2	7622	7826	7529	7659	1.98	cps
Cobalt	59-2	7135	7269	7429	7277	2.02	cps
Copper	63-2	14134	14411	14481	14342	1.28	cps
Dysprosium	156-1	133	157	160	150	9.68	cps
Dysprosium	156-2	17	10	10	12	31.50	cps
Erbium	164-1	70	80	110	87	24.02	cps
Erbium	164-2	37	17	27	27	37.50	cps
Gadolinium	160-1	127	143	123	131	8.17	cps
Gadolinium	160-2	20	13	23	19	26.96	cps
Holmium	165-1	20748497	20702416	20640064	20696992	0.26	cps
Holmium	165-2	6496169	6612263	6547834	6552089	0.89	cps
Indium	115-1	16067441	16277713	16096744	16147299	0.71	cps
Indium	115-2	1390285	1408611	1395889	1398262	0.67	cps
Iron	54-2	7652	7942	7796	7797	1.86	cps
Iron	56-2	139733	140366	138636	139579	0.63	cps
Iron	57-2	3447	3550	3340	3446	3.05	cps
Krypton	83-1	270	343	260	291	15.63	cps
Lead	206-1	16337	16728	16667	16577	1.27	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14084	14235	14021	14113	0.78	cps
Lead	208-1	65676	65889	65622	65729	0.21	cps
Lithium	6-1	7417028	7533299	7482519	7477615	0.78	cps
Magnesium	24-2	125642	127387	126987	126672	0.72	cps
Manganese	55-2	1570	1497	1553	1540	2.50	cps
Molybdenum	94-1	36150	36735	36351	36412	0.82	cps
Molybdenum	95-1	43618	43702	43859	43726	0.28	cps
Molybdenum	96-1	48615	49963	49016	49198	1.41	cps
Molybdenum	97-1	27477	27430	27764	27557	0.66	cps
Molybdenum	98-1	69878	71265	71141	70761	1.08	cps
Neodymium	150-1	13	7	20	13	49.99	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	2750	2860	2837	2816	2.06	cps
Phosphorus	31-2	137	140	187	154	18.10	cps
Potassium	39-2	72698	72578	72829	72702	0.17	cps
Rhodium	103-1	14933407	15023952	14957859	14971740	0.31	cps
Rhodium	103-2	5415561	5419026	5486447	5440344	0.73	cps
Scandium	45-1	10404605	10362599	10440548	10402584	0.38	cps
Scandium	45-2	185967	188890	186642	187166	0.82	cps
Selenium	82-1	1410	1403	1267	1360	5.95	cps
Selenium	77-2	23	13	20	19	26.96	cps
Selenium	78-2	53	73	80	69	20.15	cps
Silicon	28-1	592652	588031	589567	590083	0.40	cps
Silver	107-1	21587	22044	22301	21978	1.65	cps
Silver	109-1	20906	20973	21433	21104	1.36	cps
Sodium	23-2	295886	295862	296889	296212	0.20	cps
Strontium	86-1	6432	6291	6255	6326	1.47	cps
Strontium	88-1	51819	51832	52250	51967	0.47	cps
Sulfur	34-1	758163	757218	761096	758826	0.27	cps
Terbium	159-1	20876308	21064451	20780423	20907061	0.69	cps
Terbium	159-2	6254713	6310590	6250826	6272043	0.53	cps
Thallium	203-1	18463	18857	17842	18388	2.78	cps
Thallium	205-1	44195	44921	44162	44426	0.97	cps
Tin	118-1	74953	75711	75929	75531	0.68	cps
Titanium	47-1	13680	13420	13727	13609	1.22	cps
Uranium	238-1	56194	56314	56458	56322	0.24	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:08:35	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13557	13423	13577	13519	0.62	cps
Ytterbium	172-1	140	130	117	129	9.08	cps
Ytterbium	172-2	50	43	27	40	30.04	cps
Ytterbium	176-1	2177	2367	2224	2256	4.39	cps
Ytterbium	176-2	333	357	403	364	9.78	cps
Yttrium	89-1	26691519	26956347	27177395	26941754	0.90	cps
Yttrium	89-2	1737480	1722980	1768395	1742952	1.33	cps
Zinc	66-2	3157	3047	3224	3143	2.84	cps
Zirconium	90-1	30577	30607	31275	30820	1.28	cps
Zirconium	91-1	6805	6868	6668	6781	1.51	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	62842	62641	62574	62685	0.22	cps
Antimony	121-1	861745	857215	867603	862188	0.60	cps
Arsenic	75-2	14811	15335	15045	15064	1.74	cps
Barium	135-1	1039569	1035146	1040465	1038393	0.27	cps
Barium	137-1	1829036	1837006	1822590	1829544	0.39	cps
Beryllium	9-1	280527	282353	279656	280845	0.49	cps
Bismuth	209-1	13375628	13388117	13312811	13358852	0.30	cps
Bismuth	209-2	4898733	4904587	4900921	4901414	0.06	cps
Bromine	81-1	3841	3781	3887	3836	1.39	cps
Cadmium	108-1	17431	17855	17792	17693	1.29	cps
Cadmium	106-1	33731	33223	33768	33574	0.91	cps
Cadmium	111-1	221619	223413	223740	222924	0.51	cps
Calcium	43-1	267443	270725	270715	269628	0.70	cps
Calcium	44-1	4398491	4410493	4446600	4418528	0.57	cps
Carbon	12-1	3434325	3453165	3427420	3438303	0.39	cps
Carbon	12-2	23108	23148	23325	23194	0.50	cps
Chlorine	35-1	126987	126803	127035	126942	0.10	cps
Chlorine	35-2	440	410	503	451	10.56	cps
Chromium	52-2	165134	165134	166152	165473	0.36	cps
Cobalt	59-2	322127	324722	322021	322956	0.47	cps
Copper	63-2	2591688	2619645	2610124	2607152	0.55	cps
Dysprosium	156-1	167	210	233	203	16.64	cps
Dysprosium	156-2	3	7	23	11	96.43	cps
Erbium	164-1	123	167	140	143	15.25	cps
Erbium	164-2	37	50	37	41	18.72	cps
Gadolinium	160-1	123	157	90	123	27.03	cps
Gadolinium	160-2	13	20	17	17	20.01	cps
Holmium	165-1	20808719	20581035	20637970	20675908	0.57	cps
Holmium	165-2	6534923	6575449	6485936	6532103	0.69	cps
Indium	115-1	16309522	16038421	16068709	16138884	0.92	cps
Indium	115-2	1365235	1378947	1381864	1375349	0.65	cps
Iron	54-2	346744	344288	347558	346196	0.49	cps
Iron	56-2	6339515	6390928	6321320	6350588	0.57	cps
Iron	57-2	156734	157035	156201	156657	0.27	cps
Krypton	83-1	263	303	220	262	15.90	cps
Lead	206-1	3704497	3801680	3748032	3751403	1.30	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3218431	3221582	3141539	3193851	1.42	cps
Lead	208-1	14514907	14810707	14604523	14643379	1.04	cps
Lithium	6-1	7556054	7252764	7432887	7413902	2.06	cps
Magnesium	24-2	1189372	1203052	1212261	1201562	0.96	cps
Manganese	55-2	667130	665803	667326	666753	0.12	cps
Molybdenum	94-1	2910849	3005718	2911690	2942752	1.85	cps
Molybdenum	95-1	4301342	4316458	4218045	4278615	1.24	cps
Molybdenum	96-1	4705375	4692972	4698877	4699074	0.13	cps
Molybdenum	97-1	2669178	2696189	2667114	2677493	0.61	cps
Molybdenum	98-1	6858357	6929595	6932663	6906871	0.61	cps
Neodymium	150-1	77	73	127	92	32.40	cps
Neodymium	150-2	3	0	7	3	100.05	cps
Nickel	60-2	90005	90677	90052	90245	0.42	cps
Phosphorus	31-2	2774	3087	2914	2925	5.37	cps
Potassium	39-2	312452	313571	314651	313558	0.35	cps
Rhodium	103-1	14903637	14669506	14852004	14808382	0.83	cps
Rhodium	103-2	5322813	5342154	5387958	5350975	0.63	cps
Scandium	45-1	10647223	10625834	10439565	10570874	1.08	cps
Scandium	45-2	184366	182989	182790	183382	0.47	cps
Selenium	82-1	12329	12853	12840	12674	2.36	cps
Selenium	77-2	173	210	190	191	9.60	cps
Selenium	78-2	640	720	623	661	7.82	cps
Silicon	28-1	1170052	1171124	1164189	1168455	0.32	cps
Silver	107-1	1089316	1089754	1096649	1091906	0.38	cps
Silver	109-1	1034800	1052768	1043563	1043710	0.86	cps
Sodium	23-2	2349817	2397796	2405859	2384490	1.27	cps
Strontium	86-1	271544	270835	270134	270838	0.26	cps
Strontium	88-1	2410179	2414751	2406107	2410346	0.18	cps
Sulfur	34-1	850008	844585	840403	844999	0.57	cps
Terbium	159-1	21490709	21178267	21023054	21230677	1.12	cps
Terbium	159-2	6226428	6262761	6222322	6237170	0.36	cps
Thallium	203-1	858876	878597	875274	870915	1.21	cps
Thallium	205-1	2133244	2132464	2172434	2146047	1.06	cps
Tin	118-1	692535	701098	700159	697931	0.67	cps
Titanium	47-1	1268812	1276069	1288188	1277690	0.77	cps
Uranium	238-1	2925307	2889464	2890129	2901633	0.71	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:11:58	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	128063	127488	125655	127069	0.99	cps
Ytterbium	172-1	93	107	110	103	8.54	cps
Ytterbium	172-2	40	50	53	48	14.52	cps
Ytterbium	176-1	6368	6442	6245	6352	1.57	cps
Ytterbium	176-2	1517	1640	1637	1598	4.40	cps
Yttrium	89-1	27626859	27006856	26922680	27185465	1.41	cps
Yttrium	89-2	1703513	1734378	1687292	1708394	1.40	cps
Zinc	66-2	266730	266070	269099	267300	0.60	cps
Zirconium	90-1	1487592	1512282	1492083	1497319	0.88	cps
Zirconium	91-1	320865	329555	325799	325406	1.34	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	154440	155120	154841	154800	0.22	cps
Antimony	121-1	2191182	2173691	2172950	2179274	0.47	cps
Arsenic	75-2	36721	36988	37149	36953	0.58	cps
Barium	135-1	2645811	2641562	2691543	2659639	1.04	cps
Barium	137-1	4467736	4611294	4498732	4525920	1.67	cps
Beryllium	9-1	683968	688060	689392	687140	0.41	cps
Bismuth	209-1	13265025	13219506	13088146	13190892	0.70	cps
Bismuth	209-2	4846478	4819631	4865973	4844027	0.48	cps
Bromine	81-1	3901	3861	3991	3917	1.70	cps
Cadmium	108-1	44167	44033	43572	43924	0.71	cps
Cadmium	106-1	69226	68820	69869	69305	0.76	cps
Cadmium	111-1	531645	540851	539395	537297	0.92	cps
Calcium	43-1	653566	658458	664813	658946	0.86	cps
Calcium	44-1	10694724	10763806	10678590	10712373	0.42	cps
Carbon	12-1	3568904	3600141	3608475	3592507	0.58	cps
Carbon	12-2	24177	24183	24637	24332	1.09	cps
Chlorine	35-1	127730	129358	129281	128790	0.71	cps
Chlorine	35-2	550	437	420	469	15.09	cps
Chromium	52-2	406849	405764	407534	406716	0.22	cps
Cobalt	59-2	785348	788507	783457	785770	0.32	cps
Copper	63-2	6278072	6260123	6210186	6249460	0.56	cps
Dysprosium	156-1	297	273	233	268	11.96	cps
Dysprosium	156-2	0	17	10	9	94.38	cps
Erbium	164-1	127	150	143	140	8.58	cps
Erbium	164-2	33	60	47	47	28.58	cps
Gadolinium	160-1	130	173	133	146	16.57	cps
Gadolinium	160-2	33	37	17	29	37.08	cps
Holmium	165-1	20665574	20655454	20567261	20629429	0.26	cps
Holmium	165-2	6614905	6506883	6606556	6576114	0.91	cps
Indium	115-1	16051284	15834460	15928018	15937921	0.68	cps
Indium	115-2	1367194	1367196	1362316	1365569	0.21	cps
Iron	54-2	845134	853505	848197	848945	0.50	cps
Iron	56-2	15588463	15591745	15533624	15571277	0.21	cps
Iron	57-2	383801	385971	386725	385499	0.39	cps
Krypton	83-1	270	267	297	278	5.92	cps
Lead	206-1	8902627	8945081	8979823	8942510	0.43	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7744967	7683947	7787916	7738943	0.68	cps
Lead	208-1	35704779	35662100	35816200	35727693	0.22	cps
Lithium	6-1	7534394	7433388	7286078	7417953	1.68	cps
Magnesium	24-2	2909807	2928592	2950806	2929735	0.70	cps
Manganese	55-2	1689134	1699911	1661680	1683575	1.17	cps
Molybdenum	94-1	7208966	7126941	7213334	7183080	0.68	cps
Molybdenum	95-1	10610964	10616673	10565929	10597855	0.26	cps
Molybdenum	96-1	11601820	11514836	11528028	11548228	0.41	cps
Molybdenum	97-1	6536549	6540304	6480236	6519030	0.52	cps
Molybdenum	98-1	17090663	16976508	17271388	17112853	0.87	cps
Neodymium	150-1	130	210	213	184	25.58	cps
Neodymium	150-2	10	0	0	3	173.21	cps
Nickel	60-2	218976	220218	219494	219562	0.28	cps
Phosphorus	31-2	7332	7299	7432	7354	0.94	cps
Potassium	39-2	758554	755128	755929	756537	0.24	cps
Rhodium	103-1	14654109	14546289	14851517	14683971	1.05	cps
Rhodium	103-2	5339703	5322778	5279178	5313887	0.59	cps
Scandium	45-1	10434892	10510160	10430920	10458657	0.43	cps
Scandium	45-2	185004	183519	185959	184827	0.67	cps
Selenium	82-1	31012	30778	31142	30977	0.60	cps
Selenium	77-2	463	460	487	470	3.09	cps
Selenium	78-2	1537	1667	1627	1610	4.14	cps
Silicon	28-1	2145101	2115919	2142495	2134505	0.76	cps
Silver	107-1	2768892	2738971	2757157	2755007	0.55	cps
Silver	109-1	2623589	2637883	2638520	2633331	0.32	cps
Sodium	23-2	5717072	5679413	5746307	5714264	0.59	cps
Strontium	86-1	658443	663419	670289	664050	0.90	cps
Strontium	88-1	5842458	5881541	5960140	5894713	1.02	cps
Sulfur	34-1	937034	966793	934475	946101	1.90	cps
Terbium	159-1	21272376	20977451	21016563	21088796	0.76	cps
Terbium	159-2	6301849	6242359	6179182	6241130	0.98	cps
Thallium	203-1	2180431	2212830	2203345	2198869	0.76	cps
Thallium	205-1	5307194	5263150	5227958	5266101	0.75	cps
Tin	118-1	1763345	1733193	1733849	1743462	0.99	cps
Titanium	47-1	3096615	3128598	3147248	3124154	0.82	cps
Uranium	238-1	7051129	7114458	7130242	7098610	0.59	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:15:02	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	312258	310936	315316	312837	0.72	cps
Ytterbium	172-1	110	183	140	144	25.53	cps
Ytterbium	172-2	53	60	50	54	9.35	cps
Ytterbium	176-1	12089	12473	12079	12214	1.84	cps
Ytterbium	176-2	3507	3524	3477	3503	0.68	cps
Yttrium	89-1	27252918	26872171	27229779	27118289	0.79	cps
Yttrium	89-2	1704380	1715493	1725344	1715072	0.61	cps
Zinc	66-2	648243	652368	653929	651513	0.45	cps
Zirconium	90-1	3661290	3697553	3668607	3675817	0.52	cps
Zirconium	91-1	794656	798387	798881	797308	0.29	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	312364	309106	309287	310252	0.59	cps
Antimony	121-1	4252500	4266716	4313114	4277443	0.74	cps
Arsenic	75-2	73845	75042	73658	74182	1.01	cps
Barium	135-1	5151990	5169594	5212134	5177906	0.60	cps
Barium	137-1	8784702	8937141	8955277	8892373	1.05	cps
Beryllium	9-1	1361679	1373684	1369123	1368162	0.44	cps
Bismuth	209-1	13313163	12990345	12819564	13041024	1.92	cps
Bismuth	209-2	4764676	4822292	4959287	4848752	2.06	cps
Bromine	81-1	3901	3927	4081	3969	2.45	cps
Cadmium	108-1	84879	86892	85231	85667	1.25	cps
Cadmium	106-1	126049	128057	127552	127219	0.82	cps
Cadmium	111-1	1032022	1051711	1052785	1045506	1.12	cps
Calcium	43-1	1299438	1340927	1315668	1318677	1.59	cps
Calcium	44-1	20692978	21459617	21121501	21091365	1.82	cps
Carbon	12-1	3662095	3721340	3760407	3714614	1.33	cps
Carbon	12-2	26460	25709	26370	26180	1.57	cps
Chlorine	35-1	130946	133482	133828	132752	1.19	cps
Chlorine	35-2	447	480	497	474	5.37	cps
Chromium	52-2	800262	801017	798068	799782	0.19	cps
Cobalt	59-2	1597019	1575898	1577618	1583512	0.74	cps
Copper	63-2	12339749	12538734	12356776	12411753	0.89	cps
Dysprosium	156-1	310	327	307	314	3.41	cps
Dysprosium	156-2	30	30	10	23	49.49	cps
Erbium	164-1	133	133	150	139	6.93	cps
Erbium	164-2	67	47	50	54	19.68	cps
Gadolinium	160-1	167	140	190	166	15.11	cps
Gadolinium	160-2	50	23	40	38	35.67	cps
Holmium	165-1	21209266	20709873	20287729	20735622	2.22	cps
Holmium	165-2	6530785	6320486	6574396	6475222	2.10	cps
Indium	115-1	16271167	15630076	15765957	15889066	2.13	cps
Indium	115-2	1338590	1319639	1388900	1349043	2.65	cps
Iron	54-2	1734082	1696726	1713286	1714698	1.09	cps
Iron	56-2	30837090	31015804	30655718	30836204	0.58	cps
Iron	57-2	755760	760624	760940	759108	0.38	cps
Krypton	83-1	293	253	247	264	9.54	cps
Lead	206-1	17696720	17716294	17720760	17711258	0.07	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14993644	15185476	15107397	15095506	0.64	cps
Lead	208-1	69383994	70318296	69855043	69852444	0.67	cps
Lithium	6-1	7487475	7325423	7181148	7331349	2.09	cps
Magnesium	24-2	5932262	5834666	5781024	5849317	1.31	cps
Manganese	55-2	3329841	3314469	3345719	3330010	0.47	cps
Molybdenum	94-1	14283499	14390014	14309477	14327663	0.39	cps
Molybdenum	95-1	20934362	21087313	20820556	20947410	0.64	cps
Molybdenum	96-1	22827276	23123186	22843183	22931215	0.73	cps
Molybdenum	97-1	12877961	12884673	12996096	12919577	0.51	cps
Molybdenum	98-1	33710703	34181160	34180223	34024029	0.80	cps
Neodymium	150-1	333	370	323	342	7.18	cps
Neodymium	150-2	7	20	10	12	56.76	cps
Nickel	60-2	429757	432499	429113	430456	0.42	cps
Phosphorus	31-2	14457	14641	14140	14413	1.76	cps
Potassium	39-2	1530442	1542048	1528991	1533827	0.47	cps
Rhodium	103-1	14729377	14394934	14141878	14422063	2.04	cps
Rhodium	103-2	5212580	5156799	5383180	5250853	2.25	cps
Scandium	45-1	10608094	10492659	10346866	10482540	1.25	cps
Scandium	45-2	184421	180803	188250	184491	2.02	cps
Selenium	82-1	61482	63769	62068	62439	1.90	cps
Selenium	77-2	987	990	840	939	9.12	cps
Selenium	78-2	3174	3124	3254	3184	2.06	cps
Silicon	28-1	3659628	3701099	3757618	3706115	1.33	cps
Silver	107-1	5386278	5439302	5423455	5416345	0.50	cps
Silver	109-1	5093295	5139964	5144134	5125797	0.55	cps
Sodium	23-2	11551552	11492227	11321819	11455199	1.04	cps
Strontium	86-1	1300823	1308379	1319779	1309661	0.73	cps
Strontium	88-1	11714221	11751618	11674771	11713537	0.33	cps
Sulfur	34-1	1093495	1108879	1109954	1104109	0.83	cps
Terbium	159-1	21356366	20668220	21018412	21014332	1.64	cps
Terbium	159-2	6156864	6143251	6464572	6254896	2.91	cps
Thallium	203-1	4367558	4432607	4371154	4390439	0.83	cps
Thallium	205-1	10210487	10306705	10183173	10233455	0.63	cps
Tin	118-1	3437706	3398946	3475028	3437227	1.11	cps
Titanium	47-1	6089271	6158833	6003403	6083836	1.28	cps
Uranium	238-1	13838342	14022877	13713204	13858141	1.12	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:18:01	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	624364	623205	615548	621039	0.77	cps
Ytterbium	172-1	157	153	137	149	7.20	cps
Ytterbium	172-2	93	60	73	76	22.20	cps
Ytterbium	176-1	22503	21892	22172	22189	1.38	cps
Ytterbium	176-2	6512	6575	6708	6598	1.52	cps
Yttrium	89-1	27551317	26654479	26523855	26909883	2.08	cps
Yttrium	89-2	1691862	1643530	1759845	1698412	3.44	cps
Zinc	66-2	1286808	1288963	1283248	1286340	0.22	cps
Zirconium	90-1	7264335	7319011	7257533	7280293	0.46	cps
Zirconium	91-1	1635766	1627491	1646655	1636637	0.59	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	607203	609205	609822	608743	0.22	cps
Antimony	121-1	8463293	8562131	8584291	8536571	0.75	cps
Arsenic	75-2	145118	148051	146054	146408	1.02	cps
Barium	135-1	10320615	10355662	10301380	10325886	0.27	cps
Barium	137-1	17851688	17651255	17701861	17734935	0.59	cps
Beryllium	9-1	2727373	2678639	2679451	2695154	1.04	cps
Bismuth	209-1	12942676	12583387	12869207	12798423	1.48	cps
Bismuth	209-2	4657111	4725707	4640494	4674437	0.97	cps
Bromine	81-1	3991	3884	3861	3912	1.77	cps
Cadmium	108-1	169143	167884	170385	169137	0.74	cps
Cadmium	106-1	244958	246018	243566	244848	0.50	cps
Cadmium	111-1	2086245	2174443	2085266	2115318	2.42	cps
Calcium	43-1	2620377	2650772	2638075	2636408	0.58	cps
Calcium	44-1	42570386	41686527	42918814	42391909	1.50	cps
Carbon	12-1	3906252	3971130	4039518	3972300	1.68	cps
Carbon	12-2	28985	29075	28541	28867	0.99	cps
Chlorine	35-1	142735	143116	146082	143977	1.27	cps
Chlorine	35-2	553	570	547	557	2.16	cps
Chromium	52-2	1662985	1638207	1615854	1639015	1.44	cps
Cobalt	59-2	3111036	3125440	3158972	3131816	0.79	cps
Copper	63-2	24086260	24076182	24014500	24058981	0.16	cps
Dysprosium	156-1	353	377	333	354	6.12	cps
Dysprosium	156-2	27	23	33	28	18.33	cps
Erbium	164-1	200	160	187	182	11.18	cps
Erbium	164-2	53	63	50	56	12.49	cps
Gadolinium	160-1	220	217	173	203	12.80	cps
Gadolinium	160-2	60	53	50	54	9.35	cps
Holmium	165-1	20759480	20549427	20493392	20600766	0.68	cps
Holmium	165-2	6442398	6488947	6441124	6457490	0.42	cps
Indium	115-1	15762101	15568416	15213068	15514529	1.79	cps
Indium	115-2	1302560	1305982	1309783	1306109	0.28	cps
Iron	54-2	3420010	3368823	3374623	3387819	0.83	cps
Iron	56-2	60885091	61186556	60281579	60784409	0.76	cps
Iron	57-2	1552134	1580667	1555214	1562672	1.00	cps
Krypton	83-1	293	290	290	291	0.66	cps
Lead	206-1	35462491	35373334	35498237	35444687	0.18	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	30510363	30121232	30287233	30306276	0.64	cps
Lead	208-1	140553358	138932536	139873282	139786392	0.58	cps
Lithium	6-1	7287956	7263823	7150297	7234025	1.02	cps
Magnesium	24-2	11329883	11374769	11439855	11381502	0.49	cps
Manganese	55-2	6547180	6534003	6410631	6497271	1.16	cps
Molybdenum	94-1	29031846	28887644	28935524	28951671	0.25	cps
Molybdenum	95-1	42017699	41907868	42360721	42095429	0.56	cps
Molybdenum	96-1	45754286	45523233	46404339	45893953	1.00	cps
Molybdenum	97-1	25840026	25689890	25754914	25761610	0.29	cps
Molybdenum	98-1	68871937	68083521	67683009	68212822	0.89	cps
Neodymium	150-1	650	697	603	650	7.18	cps
Neodymium	150-2	13	20	17	17	20.01	cps
Nickel	60-2	832191	843350	837122	837554	0.67	cps
Phosphorus	31-2	29226	29507	29407	29380	0.48	cps
Potassium	39-2	3046379	3013239	3031221	3030280	0.55	cps
Rhodium	103-1	14460019	14043339	13936805	14146721	1.95	cps
Rhodium	103-2	5084232	5127604	5014711	5075516	1.12	cps
Scandium	45-1	10478442	10064474	10260609	10267841	2.02	cps
Scandium	45-2	180549	182793	182689	182010	0.70	cps
Selenium	82-1	122166	123786	121032	122328	1.13	cps
Selenium	77-2	1803	1800	1783	1796	0.60	cps
Selenium	78-2	6031	5898	6121	6017	1.87	cps
Silicon	28-1	6755868	6861979	6892155	6836667	1.05	cps
Silver	107-1	10490453	10613701	10691255	10598470	0.96	cps
Silver	109-1	9952605	10168089	10121820	10080838	1.13	cps
Sodium	23-2	22758015	22645304	22807711	22737010	0.37	cps
Strontium	86-1	2675469	2697756	2684703	2685976	0.42	cps
Strontium	88-1	23186521	23113263	23295741	23198509	0.40	cps
Sulfur	34-1	1440525	1437112	1428745	1435461	0.42	cps
Terbium	159-1	21168585	21159863	21144342	21157597	0.06	cps
Terbium	159-2	6117703	6281247	6175733	6191561	1.34	cps
Thallium	203-1	8515575	8559202	8675637	8583471	0.96	cps
Thallium	205-1	20328353	20635199	20666248	20543267	0.91	cps
Tin	118-1	6721864	6795603	6754376	6757281	0.55	cps
Titanium	47-1	12351255	12146266	12237509	12245010	0.84	cps
Uranium	238-1	27733745	27946810	27631951	27770835	0.58	cps

Reviewed By:Mohan
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LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:20:51	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1244265	1234892	1230532	1236563	0.57	cps
Ytterbium	172-1	197	253	240	230	12.88	cps
Ytterbium	172-2	47	67	63	59	18.19	cps
Ytterbium	176-1	42602	40863	42337	41934	2.23	cps
Ytterbium	176-2	12960	13117	13343	13140	1.47	cps
Yttrium	89-1	27132938	26555681	26802240	26830286	1.08	cps
Yttrium	89-2	1687718	1664263	1658404	1670128	0.93	cps
Zinc	66-2	2576205	2610806	2609684	2598898	0.76	cps
Zirconium	90-1	14580628	14517316	14898375	14665440	1.39	cps
Zirconium	91-1	3252433	3246713	3362852	3287332	1.99	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1253403	1259425	1229557	1247462	1.27	cps
Antimony	121-1	16472252	16591189	16704403	16589281	0.70	cps
Arsenic	75-2	290723	290754	286900	289459	0.77	cps
Barium	135-1	19996131	19972217	20286261	20084870	0.87	cps
Barium	137-1	34975251	34631722	34680037	34762337	0.53	cps
Beryllium	9-1	5173412	5268338	5238123	5226624	0.93	cps
Bismuth	209-1	12406000	12609147	12411609	12475585	0.93	cps
Bismuth	209-2	4678991	4655771	4639686	4658149	0.42	cps
Bromine	81-1	3901	4044	4171	4038	3.35	cps
Cadmium	108-1	324564	330107	329015	327896	0.90	cps
Cadmium	106-1	463915	469838	467456	467070	0.64	cps
Cadmium	111-1	4039130	4062925	4092556	4064871	0.66	cps
Calcium	43-1	5099674	5152446	5099255	5117125	0.60	cps
Calcium	44-1	82942632	82818747	83246524	83002634	0.27	cps
Carbon	12-1	4366607	4520629	4641762	4509666	3.06	cps
Carbon	12-2	34110	34340	35493	34647	2.14	cps
Chlorine	35-1	161836	165790	167757	165128	1.83	cps
Chlorine	35-2	630	583	677	630	7.41	cps
Chromium	52-2	3284374	3248647	3261141	3264721	0.56	cps
Cobalt	59-2	6100678	5998346	6124696	6074573	1.10	cps
Copper	63-2	47449666	46659593	46918129	47009129	0.86	cps
Dysprosium	156-1	490	547	537	524	5.77	cps
Dysprosium	156-2	53	37	43	44	18.87	cps
Erbium	164-1	273	287	253	271	6.19	cps
Erbium	164-2	100	77	117	98	20.55	cps
Gadolinium	160-1	257	250	230	246	5.65	cps
Gadolinium	160-2	100	43	67	70	40.69	cps
Holmium	165-1	20252447	20507497	20155254	20305066	0.90	cps
Holmium	165-2	6470568	6469976	6408374	6449639	0.55	cps
Indium	115-1	14918787	15100736	14984400	15001307	0.61	cps
Indium	115-2	1276170	1281772	1272294	1276746	0.37	cps
Iron	54-2	6650436	6660262	6656094	6655597	0.07	cps
Iron	56-2	120342328	119255895	120285395	119961206	0.51	cps
Iron	57-2	3063447	3031906	3126224	3073859	1.56	cps
Krypton	83-1	333	310	310	318	4.24	cps
Lead	206-1	67793259	68327722	68119762	68080248	0.40	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	58822957	58852269	58491642	58722290	0.34	cps
Lead	208-1	270014228	271731893	270174799	270640307	0.35	cps
Lithium	6-1	7034089	7203445	7130692	7122742	1.19	cps
Magnesium	24-2	22507369	22281817	22691778	22493655	0.91	cps
Manganese	55-2	12965757	12842416	12992662	12933612	0.62	cps
Molybdenum	94-1	56381386	56842971	57035257	56753205	0.59	cps
Molybdenum	95-1	82222499	82734274	83445289	82800687	0.74	cps
Molybdenum	96-1	89213772	90138465	91652042	90334760	1.36	cps
Molybdenum	97-1	50615808	50990074	51667063	51090981	1.04	cps
Molybdenum	98-1	133276021	133777898	133875238	133643052	0.24	cps
Neodymium	150-1	1267	1370	1197	1278	6.82	cps
Neodymium	150-2	27	43	53	41	32.76	cps
Nickel	60-2	1732698	1708735	1699299	1713577	1.00	cps
Phosphorus	31-2	57192	57068	56506	56922	0.64	cps
Potassium	39-2	5888830	5908282	5845228	5880780	0.55	cps
Rhodium	103-1	13592335	13824641	13668142	13695039	0.87	cps
Rhodium	103-2	5052150	4924117	4966561	4980942	1.31	cps
Scandium	45-1	10248553	10077105	10354024	10226561	1.37	cps
Scandium	45-2	183829	183252	184454	183845	0.33	cps
Selenium	82-1	238742	241081	241701	240508	0.65	cps
Selenium	77-2	3641	3387	3510	3513	3.61	cps
Selenium	78-2	12105	11969	12095	12056	0.63	cps
Silicon	28-1	12650303	12745443	12758371	12718039	0.46	cps
Silver	107-1	20410596	20350261	20440115	20400324	0.22	cps
Silver	109-1	19255426	19655148	19510751	19473775	1.04	cps
Sodium	23-2	44782258	44720581	44903584	44802141	0.21	cps
Strontium	86-1	5292860	5195921	5233670	5240817	0.93	cps
Strontium	88-1	46179984	45946558	45795083	45973875	0.42	cps
Sulfur	34-1	2077008	2060966	2065786	2067920	0.40	cps
Terbium	159-1	20631501	20772228	20932101	20778610	0.72	cps
Terbium	159-2	6240808	6136736	6076717	6151420	1.35	cps
Thallium	203-1	16451770	16523171	16519770	16498237	0.24	cps
Thallium	205-1	39217547	39974092	39757666	39649768	0.98	cps
Tin	118-1	13152923	13382500	13291741	13275721	0.87	cps
Titanium	47-1	24214779	23944945	24010863	24056862	0.58	cps
Uranium	238-1	54415436	55262309	55113348	54930364	0.82	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:23:38	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2529206	2531372	2481206	2513928	1.13	cps
Ytterbium	172-1	297	367	277	313	15.08	cps
Ytterbium	172-2	137	127	120	128	6.57	cps
Ytterbium	176-1	81700	81553	80808	81354	0.59	cps
Ytterbium	176-2	25899	25735	25852	25829	0.33	cps
Yttrium	89-1	26715645	26280949	26391853	26462815	0.85	cps
Yttrium	89-2	1723020	1679193	1682955	1695056	1.43	cps
Zinc	66-2	5022769	5018198	4968367	5003111	0.60	cps
Zirconium	90-1	28473997	28393913	28533190	28467033	0.25	cps
Zirconium	91-1	6384881	6356800	6485913	6409198	1.06	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5997963	5929553	5935001	5954172	0.64	cps
Antimony	121-1	14071	13460	13283	13605	3.04	cps
Arsenic	75-2	143	170	170	161	9.55	cps
Barium	135-1	7749	7692	7405	7616	2.42	cps
Barium	137-1	13600	12990	13006	13199	2.64	cps
Beryllium	9-1	2172	1882	1772	1942	10.64	cps
Bismuth	209-1	10846868	10800313	10894732	10847304	0.44	cps
Bismuth	209-2	4114555	4113727	4044323	4090869	0.99	cps
Bromine	81-1	4161	4291	4341	4264	2.18	cps
Cadmium	108-1	297	300	197	264	22.21	cps
Cadmium	106-1	8129	7876	7689	7898	2.80	cps
Cadmium	111-1	6329	6013	5908	6083	3.61	cps
Calcium	43-1	23143771	23365488	23513175	23340811	0.80	cps
Calcium	44-1	380211594	379181701	382738954	380710750	0.48	cps
Carbon	12-1	3965885	4095558	4147394	4069612	2.30	cps
Carbon	12-2	38413	38300	38617	38443	0.42	cps
Chlorine	35-1	128061	124644	124674	125793	1.56	cps
Chlorine	35-2	530	417	470	472	12.01	cps
Chromium	52-2	10574	10157	10264	10332	2.10	cps
Cobalt	59-2	12559	12856	12736	12717	1.17	cps
Copper	63-2	11171	11501	10858	11177	2.88	cps
Dysprosium	156-1	710	743	637	697	7.83	cps
Dysprosium	156-2	190	220	180	197	10.58	cps
Erbium	164-1	747	683	770	733	6.12	cps
Erbium	164-2	263	210	203	226	14.58	cps
Gadolinium	160-1	597	630	653	627	4.54	cps
Gadolinium	160-2	213	250	237	233	7.95	cps
Holmium	165-1	19232303	18871630	19022875	19042269	0.95	cps
Holmium	165-2	6129933	6094578	6086617	6103709	0.38	cps
Indium	115-1	14053919	14057400	13678483	13929934	1.56	cps
Indium	115-2	1231167	1247569	1202890	1227209	1.84	cps
Iron	54-2	30519369	30485153	30561177	30521900	0.12	cps
Iron	56-2	566999965	569142645	551400818	562514476	1.72	cps
Iron	57-2	14176053	13862700	14073561	14037438	1.14	cps
Krypton	83-1	367	377	330	358	6.87	cps
Lead	206-1	14862	14618	14345	14608	1.77	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12766	12586	11882	12412	3.76	cps
Lead	208-1	59731	58038	55537	57769	3.65	cps
Lithium	6-1	6501263	6605274	6406319	6504285	1.53	cps
Magnesium	24-2	107258228	107353318	105845688	106819078	0.79	cps
Manganese	55-2	5738	5955	5911	5868	1.95	cps
Molybdenum	94-1	40154	40505	40037	40232	0.61	cps
Molybdenum	95-1	41793	40756	41482	41344	1.29	cps
Molybdenum	96-1	47166	48548	47601	47772	1.48	cps
Molybdenum	97-1	25403	25891	25200	25498	1.39	cps
Molybdenum	98-1	65755	65557	65031	65448	0.57	cps
Neodymium	150-1	377	387	357	373	4.09	cps
Neodymium	150-2	90	53	67	70	26.51	cps
Nickel	60-2	6528	6672	6815	6672	2.15	cps
Phosphorus	31-2	103	93	70	89	19.24	cps
Potassium	39-2	28639990	28664270	29339885	28881381	1.38	cps
Rhodium	103-1	12204182	12400409	11983816	12196136	1.71	cps
Rhodium	103-2	4457509	4488489	4390386	4445462	1.13	cps
Scandium	45-1	9586493	9772201	9497822	9618839	1.46	cps
Scandium	45-2	176300	175794	172812	174969	1.08	cps
Selenium	82-1	-27	-60	-7	-31	-86.60	cps
Selenium	77-2	10	7	0	6	91.64	cps
Selenium	78-2	23	17	7	16	53.90	cps
Silicon	28-1	684150	668266	658579	670332	1.93	cps
Silver	107-1	3537	3687	3504	3576	2.73	cps
Silver	109-1	3584	3340	3007	3310	8.75	cps
Sodium	23-2	204932184	205863817	205574984	205456995	0.23	cps
Strontium	86-1	16333	15759	15806	15966	2.00	cps
Strontium	88-1	136805	136295	135725	136275	0.40	cps
Sulfur	34-1	682056	684087	682100	682748	0.17	cps
Terbium	159-1	19117023	19123370	19102300	19114231	0.06	cps
Terbium	159-2	5916969	5920016	5738151	5858379	1.78	cps
Thallium	203-1	1523	1537	1383	1481	5.73	cps
Thallium	205-1	4134	3450	3307	3631	12.17	cps
Tin	118-1	4324	4231	3764	4106	7.31	cps
Titanium	47-1	4224	4561	4504	4430	4.07	cps
Uranium	238-1	2630	2424	2204	2419	8.82	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 12:26:23	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	683	763	717	721	5.57	cps
Ytterbium	172-1	837	813	937	862	7.60	cps
Ytterbium	172-2	290	360	347	332	11.19	cps
Ytterbium	176-1	2664	2574	2674	2637	2.09	cps
Ytterbium	176-2	563	517	503	528	5.97	cps
Yttrium	89-1	25019185	24974695	24521135	24838339	1.11	cps
Yttrium	89-2	1658061	1631685	1582599	1624115	2.36	cps
Zinc	66-2	2640	2800	2870	2770	4.26	cps
Zirconium	90-1	46524	46591	45601	46239	1.20	cps
Zirconium	91-1	10447	10241	10180	10289	1.36	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	30272	30151	30395	30273	0.40	cps
Antimony	121-1	3516543	3504548	3549952	3523681	0.67	cps
Arsenic	75-2	60432	61571	60881	60961	0.94	cps
Barium	135-1	416525	413590	417893	416003	0.53	cps
Barium	137-1	721616	722114	731831	725187	0.79	cps
Beryllium	9-1	570422	571316	566929	569556	0.41	cps
Bismuth	209-1	13542598	13433284	13461624	13479169	0.42	cps
Bismuth	209-2	4961829	5012488	4997408	4990575	0.52	cps
Bromine	81-1	3794	3814	3871	3826	1.04	cps
Cadmium	108-1	44719	45849	45950	45506	1.50	cps
Cadmium	106-1	46772	46394	47512	46893	1.21	cps
Cadmium	111-1	444618	445941	445885	445481	0.17	cps
Calcium	43-1	118516	118563	116853	117977	0.83	cps
Calcium	44-1	1915951	1876150	1902369	1898157	1.07	cps
Carbon	12-1	4283972	4408284	4393500	4361919	1.56	cps
Carbon	12-2	30121	30161	29954	30079	0.37	cps
Chlorine	35-1	120728	119004	119471	119734	0.74	cps
Chlorine	35-2	433	533	413	460	13.98	cps
Chromium	52-2	337270	335155	335097	335841	0.37	cps
Cobalt	59-2	655095	658932	652897	655641	0.47	cps
Copper	63-2	515175	521522	517964	518220	0.61	cps
Dysprosium	156-1	100	110	93	101	8.30	cps
Dysprosium	156-2	3	13	7	8	65.47	cps
Erbium	164-1	127	103	140	123	15.04	cps
Erbium	164-2	30	50	37	39	26.18	cps
Gadolinium	160-1	123	100	153	126	21.30	cps
Gadolinium	160-2	17	20	13	17	20.01	cps
Holmium	165-1	21315476	20733988	20844497	20964653	1.47	cps
Holmium	165-2	6508822	6500566	6488707	6499365	0.16	cps
Indium	115-1	16337170	16282833	16102265	16240756	0.76	cps
Indium	115-2	1390167	1384283	1386422	1386958	0.21	cps
Iron	54-2	276886	280677	277450	278338	0.74	cps
Iron	56-2	5021218	4966507	4921785	4969837	1.00	cps
Iron	57-2	124676	122453	123428	123519	0.90	cps
Krypton	83-1	267	240	290	266	9.42	cps
Lead	206-1	3071860	3022364	2992500	3028908	1.32	cps

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2462501	2498942	2483373	2481605	0.74	cps
Lead	208-1	11597939	11618483	11576345	11597589	0.18	cps
Lithium	6-1	7734904	7482279	7583045	7600076	1.67	cps
Magnesium	24-2	265715	264350	265791	265286	0.31	cps
Manganese	55-2	130355	133803	130647	131602	1.45	cps
Molybdenum	94-1	23123643	22878052	22585228	22862308	1.18	cps
Molybdenum	95-1	41360599	41162430	40480217	41001082	1.13	cps
Molybdenum	96-1	44438539	43643673	43716906	43933039	1.00	cps
Molybdenum	97-1	25133275	25027085	25165682	25108681	0.29	cps
Molybdenum	98-1	66017892	66552564	65240604	65937020	1.00	cps
Neodymium	150-1	57	47	67	57	17.65	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	182518	185330	181802	183217	1.02	cps
Phosphorus	31-2	93	73	87	84	12.06	cps
Potassium	39-2	243935	244095	242794	243608	0.29	cps
Rhodium	103-1	15167069	14817089	14778421	14920860	1.43	cps
Rhodium	103-2	5406739	5414773	5356488	5392667	0.59	cps
Scandium	45-1	10896802	10725958	10613273	10745344	1.33	cps
Scandium	45-2	186862	186166	185737	186255	0.30	cps
Selenium	82-1	52586	52656	53001	52747	0.42	cps
Selenium	77-2	730	880	833	814	9.43	cps
Selenium	78-2	2700	2660	2707	2689	0.94	cps
Silicon	28-1	550322	543271	542306	545300	0.80	cps
Silver	107-1	1019729	1037840	1031261	1029610	0.89	cps
Silver	109-1	979772	985028	997669	987490	0.93	cps
Sodium	23-2	955750	941739	945627	947705	0.76	cps
Strontium	86-1	2902978	2859200	2905685	2889287	0.90	cps
Strontium	88-1	25059375	24893650	24965774	24972933	0.33	cps
Sulfur	34-1	783983	773978	767137	775033	1.09	cps
Terbium	159-1	21581733	21301225	21270942	21384633	0.80	cps
Terbium	159-2	6304495	6245242	6273710	6274482	0.47	cps
Thallium	203-1	3693848	3597194	3581029	3624024	1.68	cps
Thallium	205-1	8639799	8517454	8527706	8561653	0.79	cps
Tin	118-1	3921	4097	4174	4064	3.20	cps
Titanium	47-1	1807	1757	1807	1790	1.61	cps
Uranium	238-1	747	820	713	760	7.18	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICV005	Instrumnet Name :	P8
Client Sample ID :	ICV005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:29:04	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	250410	252391	249556	250786	0.58	cps
Ytterbium	172-1	120	127	123	123	2.70	cps
Ytterbium	172-2	37	27	47	37	27.27	cps
Ytterbium	176-1	1893	2110	2094	2032	5.93	cps
Ytterbium	176-2	383	457	417	419	8.77	cps
Yttrium	89-1	28039401	27368147	27300040	27569196	1.48	cps
Yttrium	89-2	1716657	1739921	1685710	1714096	1.59	cps
Zinc	66-2	102745	104814	102695	103418	1.17	cps
Zirconium	90-1	1407	1483	1543	1478	4.64	cps
Zirconium	91-1	970	917	1083	990	8.60	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	53	83	113	83	36.01	cps
Antimony	121-1	693	527	550	590	15.30	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	307	293	270	290	6.40	cps
Barium	137-1	423	440	453	439	3.42	cps
Beryllium	9-1	429	446	427	434	2.41	cps
Bismuth	209-1	13542910	13478139	13431154	13484068	0.42	cps
Bismuth	209-2	5023546	5052107	5098193	5057949	0.74	cps
Bromine	81-1	3781	3704	3741	3742	1.03	cps
Cadmium	108-1	27	40	40	36	21.64	cps
Cadmium	106-1	8379	8203	7976	8186	2.47	cps
Cadmium	111-1	5900	5764	5592	5752	2.69	cps
Calcium	43-1	450	357	437	414	12.18	cps
Calcium	44-1	25509	25025	24648	25061	1.72	cps
Carbon	12-1	3370678	3347989	3363624	3360764	0.35	cps
Carbon	12-2	23112	22654	22684	22817	1.12	cps
Chlorine	35-1	118402	118587	118399	118463	0.09	cps
Chlorine	35-2	503	477	367	449	16.14	cps
Chromium	52-2	763	790	753	769	2.47	cps
Cobalt	59-2	123	130	143	132	7.70	cps
Copper	63-2	2944	2717	2957	2873	4.70	cps
Dysprosium	156-1	67	77	40	61	31.02	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	67	80	87	78	13.09	cps
Erbium	164-2	47	23	23	31	43.32	cps
Gadolinium	160-1	130	113	120	121	6.92	cps
Gadolinium	160-2	13	17	7	12	41.65	cps
Holmium	165-1	20726861	20697862	20552567	20659097	0.45	cps
Holmium	165-2	6563018	6656614	6557052	6592228	0.85	cps
Indium	115-1	16348563	16375735	16276626	16333641	0.31	cps
Indium	115-2	1384810	1388247	1400582	1391213	0.60	cps
Iron	54-2	417	413	400	410	2.15	cps
Iron	56-2	6175	5735	6011	5974	3.73	cps
Iron	57-2	113	137	143	131	12.01	cps
Krypton	83-1	260	297	267	274	7.12	cps
Lead	206-1	2374	2457	2514	2448	2.88	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2154	1927	2094	2058	5.71	cps
Lead	208-1	9258	9358	9508	9375	1.34	cps
Lithium	6-1	7831695	7526308	7659804	7672603	2.00	cps
Magnesium	24-2	2544	2757	2544	2615	4.71	cps
Manganese	55-2	167	190	170	176	7.19	cps
Molybdenum	94-1	907	710	840	819	12.21	cps
Molybdenum	95-1	1040	890	780	903	14.45	cps
Molybdenum	96-1	1140	1033	963	1046	8.51	cps
Molybdenum	97-1	600	550	543	564	5.49	cps
Molybdenum	98-1	1560	1533	1280	1458	10.60	cps
Neodymium	150-1	3	30	17	17	80.01	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	797	727	727	750	5.39	cps
Phosphorus	31-2	80	60	103	81	26.74	cps
Potassium	39-2	9436	9530	9517	9494	0.53	cps
Rhodium	103-1	15177009	14880696	14964620	15007442	1.02	cps
Rhodium	103-2	5459983	5501569	5487777	5483110	0.39	cps
Scandium	45-1	10629244	10604165	10655321	10629577	0.24	cps
Scandium	45-2	188292	189013	189489	188932	0.32	cps
Selenium	82-1	13	-50	17	-7	-563.47	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	3	3	3	0.00	cps
Silicon	28-1	515777	514132	513703	514537	0.21	cps
Silver	107-1	487	463	370	440	14.03	cps
Silver	109-1	293	303	270	289	5.92	cps
Sodium	23-2	55572	56134	55415	55707	0.68	cps
Strontium	86-1	660	733	653	682	6.51	cps
Strontium	88-1	2427	2330	2230	2329	4.22	cps
Sulfur	34-1	761967	756800	759449	759405	0.34	cps
Terbium	159-1	21228205	21269873	21450672	21316250	0.55	cps
Terbium	159-2	6331759	6283236	6392654	6335883	0.87	cps
Thallium	203-1	497	503	417	472	10.21	cps
Thallium	205-1	1143	1137	1127	1136	0.74	cps
Tin	118-1	3250	3347	3244	3280	1.76	cps
Titanium	47-1	567	477	520	521	8.64	cps
Uranium	238-1	60	40	60	53	21.65	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICB005	Instrumnet Name :	P8
Client Sample ID :	ICB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:33:28	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	17	10	13	25.01	cps
Ytterbium	172-1	143	150	83	126	29.25	cps
Ytterbium	172-2	43	37	47	42	12.06	cps
Ytterbium	176-1	2124	1890	2087	2034	6.17	cps
Ytterbium	176-2	377	373	473	408	13.93	cps
Yttrium	89-1	27524396	27509838	27491057	27508430	0.06	cps
Yttrium	89-2	1726713	1728911	1737181	1730935	0.32	cps
Zinc	66-2	213	277	330	273	21.37	cps
Zirconium	90-1	943	860	950	918	5.46	cps
Zirconium	91-1	180	237	220	212	13.72	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6006961	6017654	5975984	6000200	0.36	cps
Antimony	121-1	19811	19554	19634	19666	0.67	cps
Arsenic	75-2	113	77	73	88	25.28	cps
Barium	135-1	5885	5821	5911	5872	0.79	cps
Barium	137-1	10337	10554	10631	10508	1.45	cps
Beryllium	9-1	1885	1909	1940	1911	1.44	cps
Bismuth	209-1	12029610	12211727	12245480	12162272	0.95	cps
Bismuth	209-2	4573909	4578975	4543534	4565473	0.42	cps
Bromine	81-1	5815	5731	6145	5897	3.71	cps
Cadmium	108-1	6372	6115	6105	6197	2.44	cps
Cadmium	106-1	7109	7722	7145	7325	4.70	cps
Cadmium	111-1	7618	8290	7680	7863	4.73	cps
Calcium	43-1	5446983	5383944	5352264	5394397	0.89	cps
Calcium	44-1	86158472	86280525	86114075	86184358	0.10	cps
Carbon	12-1	42514864	42940103	43689409	43048125	1.38	cps
Carbon	12-2	298031	297683	295211	296975	0.52	cps
Chlorine	35-1	82030902	86693605	88162952	85629153	3.74	cps
Chlorine	35-2	345867	349596	352022	349162	0.89	cps
Chromium	52-2	66631	67569	68161	67454	1.14	cps
Cobalt	59-2	7482	7575	7519	7525	0.63	cps
Copper	63-2	42430	42630	42831	42630	0.47	cps
Dysprosium	156-1	143	150	120	138	11.43	cps
Dysprosium	156-2	27	33	17	26	32.81	cps
Erbium	164-1	157	143	197	166	16.76	cps
Erbium	164-2	53	37	20	37	45.45	cps
Gadolinium	160-1	187	150	170	169	10.87	cps
Gadolinium	160-2	37	50	37	41	18.72	cps
Holmium	165-1	20617565	20658430	20432159	20569385	0.59	cps
Holmium	165-2	6575024	6500270	6485179	6520158	0.74	cps
Indium	115-1	15318846	15519039	15363973	15400619	0.68	cps
Indium	115-2	1333767	1308138	1324311	1322072	0.98	cps
Iron	54-2	13614068	13647490	13610834	13624131	0.15	cps
Iron	56-2	251060403	250758690	250514036	250777710	0.11	cps
Iron	57-2	6296719	6378436	6279789	6318315	0.83	cps
Krypton	83-1	307	223	330	287	19.56	cps
Lead	206-1	65993	66077	66694	66255	0.58	cps

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	52004	52047	53333	52461	1.44	cps
Lead	208-1	245054	244953	247366	245791	0.56	cps
Lithium	6-1	7116545	7220420	7096544	7144503	0.93	cps
Magnesium	24-2	22124691	22203375	22474322	22267462	0.82	cps
Manganese	55-2	10394	10204	10707	10435	2.44	cps
Molybdenum	94-1	9372882	9387651	9455733	9405422	0.47	cps
Molybdenum	95-1	16694674	16800269	17056196	16850380	1.10	cps
Molybdenum	96-1	18127939	18221306	18521591	18290279	1.12	cps
Molybdenum	97-1	10519083	10394462	10488139	10467228	0.62	cps
Molybdenum	98-1	27343355	27308917	27594248	27415507	0.57	cps
Neodymium	150-1	57	117	67	80	40.18	cps
Neodymium	150-2	10	27	23	20	44.10	cps
Nickel	60-2	9680	9773	9970	9808	1.51	cps
Phosphorus	31-2	303682	302537	305684	303968	0.52	cps
Potassium	39-2	12365498	12291436	12374273	12343736	0.37	cps
Rhodium	103-1	13889221	13856253	13797442	13847639	0.34	cps
Rhodium	103-2	5155276	5050942	5055983	5087400	1.16	cps
Scandium	45-1	10445305	10407103	10161973	10338127	1.49	cps
Scandium	45-2	188330	185136	186905	186790	0.86	cps
Selenium	82-1	-3	107	20	41	140.98	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	13	13	11	34.61	cps
Silicon	28-1	833414	837674	841634	837574	0.49	cps
Silver	107-1	570	580	707	619	12.31	cps
Silver	109-1	383	460	633	492	26.02	cps
Sodium	23-2	46690169	47590618	47061028	47113938	0.96	cps
Strontium	86-1	184074	187746	185923	185914	0.99	cps
Strontium	88-1	1672683	1688072	1660178	1673644	0.83	cps
Sulfur	34-1	7533888	7533547	7406167	7491201	0.98	cps
Terbium	159-1	20728528	21187189	20896471	20937396	1.11	cps
Terbium	159-2	6251593	6204603	6115550	6190582	1.12	cps
Thallium	203-1	1243	1177	1427	1282	10.10	cps
Thallium	205-1	2637	2940	3247	2941	10.37	cps
Tin	118-1	4744	4584	4624	4651	1.79	cps
Titanium	47-1	5127233	5130039	5158978	5138750	0.34	cps
Uranium	238-1	840	940	1000	927	8.72	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSA005	Instrumnet Name :	P8
Client Sample ID :	ICSA005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:40:53	DataFile Name :	015ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	350	410	380	380	7.89	cps
Ytterbium	172-1	110	113	163	129	23.18	cps
Ytterbium	172-2	57	33	37	42	29.89	cps
Ytterbium	176-1	1843	1870	1967	1893	3.43	cps
Ytterbium	176-2	337	297	387	340	13.26	cps
Yttrium	89-1	27253494	27165486	26846611	27088530	0.79	cps
Yttrium	89-2	1740354	1705133	1737976	1727821	1.14	cps
Zinc	66-2	5808	5958	5898	5888	1.28	cps
Zirconium	90-1	1343	1337	1207	1296	5.95	cps
Zirconium	91-1	240	283	240	254	9.83	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5994950	6050514	6012247	6019237	0.47	cps
Antimony	121-1	367934	374470	374622	372342	1.03	cps
Arsenic	75-2	6395	6562	6505	6487	1.31	cps
Barium	135-1	90305	89677	91640	90541	1.11	cps
Barium	137-1	156772	160371	158749	158631	1.14	cps
Beryllium	9-1	114145	113164	114488	113932	0.60	cps
Bismuth	209-1	12210319	12504837	12347249	12354135	1.19	cps
Bismuth	209-2	4532101	4527686	4588239	4549342	0.74	cps
Bromine	81-1	5584	5708	5871	5721	2.51	cps
Cadmium	108-1	11505	11682	11738	11642	1.05	cps
Cadmium	106-1	14424	14978	14755	14719	1.89	cps
Cadmium	111-1	90717	91055	91173	90982	0.26	cps
Calcium	43-1	5475465	5503974	5520666	5500035	0.42	cps
Calcium	44-1	88541132	89041159	87942689	88508326	0.62	cps
Carbon	12-1	43781208	44817178	45099161	44565849	1.56	cps
Carbon	12-2	305040	304895	306385	305440	0.27	cps
Chlorine	35-1	83283905	88733885	91018935	87678909	4.53	cps
Chlorine	35-2	352440	351440	356498	353459	0.76	cps
Chromium	52-2	134774	133849	135467	134697	0.60	cps
Cobalt	59-2	135601	137711	137267	136860	0.81	cps
Copper	63-2	142732	141295	143382	142469	0.75	cps
Dysprosium	156-1	77	83	120	93	25.00	cps
Dysprosium	156-2	13	40	30	28	48.51	cps
Erbium	164-1	180	190	160	177	8.65	cps
Erbium	164-2	50	57	37	48	21.31	cps
Gadolinium	160-1	167	217	147	177	20.41	cps
Gadolinium	160-2	37	37	47	40	14.43	cps
Holmium	165-1	20356436	20579217	20516423	20484025	0.56	cps
Holmium	165-2	6491588	6517134	6543364	6517362	0.40	cps
Indium	115-1	15409433	15753983	15620919	15594778	1.11	cps
Indium	115-2	1328865	1327857	1344972	1333898	0.72	cps
Iron	54-2	13914743	13765982	13776885	13819203	0.60	cps
Iron	56-2	251448883	252795470	252437643	252227332	0.28	cps
Iron	57-2	6407290	6374912	6324172	6368792	0.66	cps
Krypton	83-1	280	260	327	289	11.84	cps
Lead	206-1	348955	343612	349910	347492	0.98	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	285791	286962	288338	287030	0.44	cps
Lead	208-1	1334026	1336093	1348284	1339468	0.58	cps
Lithium	6-1	7211124	7338204	7134991	7228106	1.42	cps
Magnesium	24-2	22420017	22370046	22652528	22480864	0.67	cps
Manganese	55-2	36995	37305	36797	37032	0.69	cps
Molybdenum	94-1	9434009	9597543	9730634	9587396	1.55	cps
Molybdenum	95-1	17156441	17325048	17299038	17260175	0.53	cps
Molybdenum	96-1	18380093	18484234	18416512	18426946	0.29	cps
Molybdenum	97-1	10543509	10707248	10605771	10618843	0.78	cps
Molybdenum	98-1	27766905	27654863	27940059	27787276	0.52	cps
Neodymium	150-1	70	77	93	80	15.02	cps
Neodymium	150-2	20	20	10	17	34.64	cps
Nickel	60-2	44707	45024	45339	45023	0.70	cps
Phosphorus	31-2	307469	307618	309604	308230	0.39	cps
Potassium	39-2	12509024	12453781	12448709	12470505	0.27	cps
Rhodium	103-1	13875978	13887588	13857661	13873742	0.11	cps
Rhodium	103-2	5051135	5024338	5086858	5054110	0.62	cps
Scandium	45-1	10653580	10619027	10499199	10590602	0.77	cps
Scandium	45-2	189806	188260	189894	189320	0.49	cps
Selenium	82-1	5178	5318	5081	5192	2.29	cps
Selenium	77-2	80	97	90	89	9.44	cps
Selenium	78-2	300	370	327	332	10.63	cps
Silicon	28-1	884565	895282	897462	892436	0.77	cps
Silver	107-1	399566	406427	410427	405473	1.35	cps
Silver	109-1	384188	386227	391978	387464	1.04	cps
Sodium	23-2	47256234	47515498	47878381	47550038	0.66	cps
Strontium	86-1	185800	189458	188823	188027	1.04	cps
Strontium	88-1	1672451	1705470	1709037	1695653	1.19	cps
Sulfur	34-1	7556280	7595385	7600287	7583984	0.32	cps
Terbium	159-1	20806117	21019011	21155095	20993407	0.84	cps
Terbium	159-2	6166700	6246593	6249932	6221075	0.76	cps
Thallium	203-1	343738	351025	345870	346878	1.08	cps
Thallium	205-1	830755	825084	839998	831946	0.90	cps
Tin	118-1	5304	5318	5344	5322	0.38	cps
Titanium	47-1	5323245	5302710	5308434	5311463	0.20	cps
Uranium	238-1	977	973	857	936	7.31	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	ICSAB005	Instrumnet Name :	P8
Client Sample ID :	ICSAB005	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:44:07	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	52001	51981	52322	52101	0.37	cps
Ytterbium	172-1	113	113	123	117	4.95	cps
Ytterbium	172-2	37	47	70	51	33.46	cps
Ytterbium	176-1	1900	2077	1997	1991	4.44	cps
Ytterbium	176-2	253	270	300	274	8.62	cps
Yttrium	89-1	27140585	27803564	27560562	27501570	1.22	cps
Yttrium	89-2	1754140	1715352	1728686	1732726	1.14	cps
Zinc	66-2	16436	16400	16740	16525	1.13	cps
Zirconium	90-1	1207	1223	1237	1222	1.23	cps
Zirconium	91-1	290	277	373	313	16.72	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3169562	3158720	3180349	3169544	0.34	cps
Antimony	121-1	8126634	8256109	8224264	8202336	0.82	cps
Arsenic	75-2	145802	147048	145903	146251	0.47	cps
Barium	135-1	10236305	10212767	10137241	10195438	0.51	cps
Barium	137-1	17604237	17519349	17311526	17478371	0.86	cps
Beryllium	9-1	2576460	2577644	2639292	2597798	1.38	cps
Bismuth	209-1	11869031	11730148	11919163	11839447	0.83	cps
Bismuth	209-2	4387952	4352452	4342162	4360855	0.55	cps
Bromine	81-1	4527	4387	4731	4549	3.80	cps
Cadmium	108-1	161075	161590	158476	160381	1.04	cps
Cadmium	106-1	229534	231582	229930	230349	0.47	cps
Cadmium	111-1	2018720	2055838	2007825	2027461	1.24	cps
Calcium	43-1	13148554	13299301	12898214	13115356	1.54	cps
Calcium	44-1	212923063	212363910	210857070	212048015	0.50	cps
Carbon	12-1	4363138	4466232	4590958	4473443	2.55	cps
Carbon	12-2	37261	37377	37217	37285	0.22	cps
Chlorine	35-1	5495177	5120077	4779648	5131634	6.97	cps
Chlorine	35-2	15842	14467	14117	14809	6.16	cps
Chromium	52-2	1642859	1676960	1662017	1660612	1.03	cps
Cobalt	59-2	3068121	3057566	3121376	3082354	1.11	cps
Copper	63-2	23192514	22883593	23089720	23055275	0.68	cps
Dysprosium	156-1	437	490	517	481	8.47	cps
Dysprosium	156-2	77	107	157	113	35.66	cps
Erbium	164-1	443	473	417	444	6.38	cps
Erbium	164-2	167	120	127	138	18.32	cps
Gadolinium	160-1	427	383	377	396	6.86	cps
Gadolinium	160-2	107	133	147	129	15.80	cps
Holmium	165-1	20411443	20154997	20036150	20200863	0.95	cps
Holmium	165-2	6471011	6410590	6391546	6424382	0.65	cps
Indium	115-1	15192598	14994091	15205673	15130787	0.78	cps
Indium	115-2	1291644	1281693	1287447	1286928	0.39	cps
Iron	54-2	16391840	16426451	16491236	16436509	0.31	cps
Iron	56-2	300779982	301480556	299584496	300615011	0.32	cps
Iron	57-2	7612747	7563826	7610558	7595710	0.36	cps
Krypton	83-1	290	327	300	306	6.20	cps
Lead	206-1	32927185	33278853	33232704	33146247	0.58	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28030996	28589648	27969801	28196815	1.21	cps
Lead	208-1	130245371	132158258	129869079	130757569	0.94	cps
Lithium	6-1	6989319	6866152	7044700	6966724	1.31	cps
Magnesium	24-2	56922591	56457906	56650966	56677154	0.41	cps
Manganese	55-2	6443935	6526941	6528521	6499799	0.74	cps
Molybdenum	94-1	28434377	28922759	28848190	28735108	0.92	cps
Molybdenum	95-1	41195852	42220186	41233199	41549745	1.40	cps
Molybdenum	96-1	44650248	45498248	45404404	45184300	1.03	cps
Molybdenum	97-1	25333663	25504583	25677749	25505332	0.67	cps
Molybdenum	98-1	66889372	67446061	66874679	67070037	0.49	cps
Neodymium	150-1	817	783	803	801	2.09	cps
Neodymium	150-2	57	37	60	51	24.69	cps
Nickel	60-2	811957	800282	803952	805397	0.74	cps
Phosphorus	31-2	30171	29710	29440	29774	1.24	cps
Potassium	39-2	15510131	15240570	15348176	15366292	0.88	cps
Rhodium	103-1	13239419	13303216	13345204	13295946	0.40	cps
Rhodium	103-2	4993708	4819310	4900803	4904607	1.78	cps
Scandium	45-1	10331161	10345687	10185383	10287410	0.86	cps
Scandium	45-2	187276	185830	188191	187099	0.64	cps
Selenium	82-1	119667	119070	119079	119272	0.29	cps
Selenium	77-2	1823	1773	1797	1798	1.39	cps
Selenium	78-2	5988	6055	6011	6018	0.56	cps
Silicon	28-1	6806029	6890147	6910203	6868793	0.80	cps
Silver	107-1	10030707	9965765	9920619	9972364	0.55	cps
Silver	109-1	9406048	9317862	9330627	9351512	0.51	cps
Sodium	23-2	114315252	114155588	112389225	113620022	0.94	cps
Strontium	86-1	2667082	2651919	2649561	2656187	0.36	cps
Strontium	88-1	22710773	23095957	23018726	22941819	0.89	cps
Sulfur	34-1	1399744	1409353	1387830	1398975	0.77	cps
Terbium	159-1	20607077	20287746	20418101	20437641	0.79	cps
Terbium	159-2	6157029	6132648	6072720	6120799	0.71	cps
Thallium	203-1	7962308	8077453	8059295	8033019	0.77	cps
Thallium	205-1	19095211	19296247	19574710	19322056	1.25	cps
Tin	118-1	6609116	6517790	6579674	6568860	0.71	cps
Titanium	47-1	12310534	12209617	12080906	12200352	0.94	cps
Uranium	238-1	26703386	26821364	26478126	26667625	0.65	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV021	Instrumnet Name :	P8
Client Sample ID :	CCV021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:47:19	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1265108	1263519	1293057	1273895	1.30	cps
Ytterbium	172-1	573	537	510	540	5.89	cps
Ytterbium	172-2	200	227	197	208	7.91	cps
Ytterbium	176-1	41866	41843	41050	41586	1.12	cps
Ytterbium	176-2	12946	12850	13163	12986	1.24	cps
Yttrium	89-1	26391441	26406276	26292052	26363257	0.24	cps
Yttrium	89-2	1734264	1703945	1702916	1713708	1.04	cps
Zinc	66-2	2538499	2479406	2459708	2492538	1.65	cps
Zirconium	90-1	14341067	14629049	14514052	14494723	1.00	cps
Zirconium	91-1	3265633	3336903	3199049	3267195	2.11	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	223	157	170	183	19.24	cps
Antimony	121-1	2004	1880	1870	1918	3.87	cps
Arsenic	75-2	7	20	10	12	56.76	cps
Barium	135-1	483	563	353	467	22.71	cps
Barium	137-1	887	757	817	820	7.93	cps
Beryllium	9-1	1172	1077	1002	1084	7.86	cps
Bismuth	209-1	13602345	13556552	13597166	13585354	0.18	cps
Bismuth	209-2	5091491	5063225	5023979	5059565	0.67	cps
Bromine	81-1	4037	4191	4337	4188	3.58	cps
Cadmium	108-1	50	50	20	40	43.30	cps
Cadmium	106-1	8169	8109	8086	8121	0.53	cps
Cadmium	111-1	5870	5781	5739	5797	1.15	cps
Calcium	43-1	817	720	680	739	9.51	cps
Calcium	44-1	33540	32851	32206	32866	2.03	cps
Carbon	12-1	3791397	3747498	3721546	3753480	0.94	cps
Carbon	12-2	24524	24170	24223	24306	0.78	cps
Chlorine	35-1	2413313	2255758	2144908	2271327	5.94	cps
Chlorine	35-2	7245	7169	6592	7002	5.10	cps
Chromium	52-2	757	727	730	738	2.23	cps
Cobalt	59-2	140	200	140	160	21.65	cps
Copper	63-2	3470	3277	3444	3397	3.09	cps
Dysprosium	156-1	17	27	43	29	46.62	cps
Dysprosium	156-2	0	10	7	6	91.64	cps
Erbium	164-1	113	73	117	101	23.85	cps
Erbium	164-2	37	20	47	34	39.11	cps
Gadolinium	160-1	110	117	150	126	17.07	cps
Gadolinium	160-2	43	23	7	24	75.09	cps
Holmium	165-1	21356763	21051391	20935684	21114612	1.03	cps
Holmium	165-2	6774222	6739237	6656540	6723333	0.90	cps
Indium	115-1	16981189	16889178	16766820	16879062	0.64	cps
Indium	115-2	1428029	1431880	1436139	1432016	0.28	cps
Iron	54-2	807	907	877	863	5.94	cps
Iron	56-2	14808	15192	13066	14355	7.89	cps
Iron	57-2	400	383	330	371	9.85	cps
Krypton	83-1	297	287	250	278	8.85	cps
Lead	206-1	5074	4771	4891	4912	3.11	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4721	4204	4071	4332	7.93	cps
Lead	208-1	20426	19239	18735	19467	4.46	cps
Lithium	6-1	7817610	7793227	7890989	7833942	0.65	cps
Magnesium	24-2	2584	2517	2524	2541	1.45	cps
Manganese	55-2	340	290	287	306	9.78	cps
Molybdenum	94-1	1603	1300	1400	1435	10.78	cps
Molybdenum	95-1	1960	1630	1413	1668	16.51	cps
Molybdenum	96-1	2017	1690	1667	1791	10.93	cps
Molybdenum	97-1	1253	1070	780	1034	23.07	cps
Molybdenum	98-1	3230	2544	2304	2693	17.87	cps
Neodymium	150-1	30	27	27	28	6.92	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	893	943	853	897	5.03	cps
Phosphorus	31-2	83	87	97	89	7.81	cps
Potassium	39-2	12913	13009	12302	12741	3.01	cps
Rhodium	103-1	15562460	15619567	15483628	15555218	0.44	cps
Rhodium	103-2	5666831	5643167	5677840	5662612	0.31	cps
Scandium	45-1	11127491	11072012	11074482	11091328	0.28	cps
Scandium	45-2	194925	196014	196136	195692	0.34	cps
Selenium	82-1	-3	-30	60	9	519.86	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	0	3	0	1	173.21	cps
Silicon	28-1	552574	550187	546972	549911	0.51	cps
Silver	107-1	1277	1277	1160	1238	5.44	cps
Silver	109-1	1150	997	1020	1056	7.83	cps
Sodium	23-2	78985	77524	77685	78065	1.03	cps
Strontium	86-1	657	673	710	680	4.01	cps
Strontium	88-1	1417	1540	1457	1471	4.28	cps
Sulfur	34-1	737293	733184	737981	736153	0.35	cps
Terbium	159-1	21390943	21324923	21431668	21382511	0.25	cps
Terbium	159-2	6463678	6407162	6523040	6464627	0.90	cps
Thallium	203-1	1653	1460	1340	1485	10.65	cps
Thallium	205-1	3737	3564	3394	3565	4.82	cps
Tin	118-1	3737	3701	3667	3702	0.95	cps
Titanium	47-1	1057	880	817	918	13.55	cps
Uranium	238-1	690	543	450	561	21.56	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB021	Instrumnet Name :	P8
Client Sample ID :	CCB021	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 13:50:25	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	37	20	13	23	51.52	cps
Ytterbium	172-1	150	130	93	124	23.10	cps
Ytterbium	172-2	20	57	33	37	50.62	cps
Ytterbium	176-1	1997	2077	2074	2049	2.21	cps
Ytterbium	176-2	287	407	327	340	17.97	cps
Yttrium	89-1	28736425	28773251	28317320	28608999	0.89	cps
Yttrium	89-2	1801139	1820729	1780353	1800740	1.12	cps
Zinc	66-2	333	357	283	324	11.55	cps
Zirconium	90-1	1477	1507	1443	1476	2.15	cps
Zirconium	91-1	327	313	327	322	2.39	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	786934	787424	783325	785894	0.28	cps
Antimony	121-1	5301	5378	5481	5387	1.68	cps
Arsenic	75-2	8683	8599	8933	8738	1.99	cps
Barium	135-1	513366	514803	513554	513908	0.15	cps
Barium	137-1	897467	896559	900540	898189	0.23	cps
Beryllium	9-1	3550	3658	3683	3630	1.94	cps
Bismuth	209-1	13875169	13260921	13231291	13455793	2.70	cps
Bismuth	209-2	4459130	4193644	4973991	4542255	8.73	cps
Bromine	81-1	6472	6602	6878	6651	3.12	cps
Cadmium	108-1	103	130	137	123	14.30	cps
Cadmium	106-1	8283	7696	8072	8017	3.71	cps
Cadmium	111-1	6165	5793	6095	6018	3.29	cps
Calcium	43-1	163865	165986	165236	165029	0.65	cps
Calcium	44-1	2751631	2782490	2752449	2762190	0.64	cps
Carbon	12-1	3755278	3775489	3849006	3793257	1.30	cps
Carbon	12-2	24971	25546	25329	25282	1.15	cps
Chlorine	35-1	85416520	92934442	95239615	91196859	5.63	cps
Chlorine	35-2	377007	383788	382155	380984	0.93	cps
Chromium	52-2	96530	96872	95899	96433	0.51	cps
Cobalt	59-2	103369	102361	101096	102275	1.11	cps
Copper	63-2	268500	267913	270868	269094	0.58	cps
Dysprosium	156-1	38940	38896	40070	39302	1.69	cps
Dysprosium	156-2	13450	13300	12910	13220	2.11	cps
Erbium	164-1	37245	37192	36644	37027	0.90	cps
Erbium	164-2	11418	11715	11218	11451	2.18	cps
Gadolinium	160-1	40016	40358	41524	40633	1.95	cps
Gadolinium	160-2	15499	15746	16353	15866	2.77	cps
Holmium	165-1	21747282	21212370	20677916	21212523	2.52	cps
Holmium	165-2	5978041	5520067	6732015	6076708	10.07	cps
Indium	115-1	16805816	16664419	16428827	16633020	1.14	cps
Indium	115-2	1264795	1167322	1412911	1281676	9.65	cps
Iron	54-2	4640873	4596754	4572174	4603267	0.76	cps
Iron	56-2	85661732	84754087	83996755	84804192	0.98	cps
Iron	57-2	2187726	2178328	2143375	2169810	1.08	cps
Krypton	83-1	390	377	380	382	1.82	cps
Lead	206-1	191067	194698	191358	192374	1.05	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	154180	154894	154844	154639	0.26	cps
Lead	208-1	730424	739031	732268	733908	0.62	cps
Lithium	6-1	7916853	7900556	7764911	7860774	1.06	cps
Magnesium	24-2	1407189	1428229	1420957	1418792	0.75	cps
Manganese	55-2	353384	349390	345747	349507	1.09	cps
Molybdenum	94-1	6935	7165	7185	7095	1.96	cps
Molybdenum	95-1	4081	4134	4201	4138	1.45	cps
Molybdenum	96-1	5491	5451	5612	5518	1.51	cps
Molybdenum	97-1	2604	2484	2710	2599	4.36	cps
Molybdenum	98-1	6928	6642	6598	6723	2.67	cps
Neodymium	150-1	41604	42086	41918	41869	0.58	cps
Neodymium	150-2	9133	9290	8800	9074	2.76	cps
Nickel	60-2	74108	73907	73411	73809	0.49	cps
Phosphorus	31-2	1120	1087	1143	1117	2.55	cps
Potassium	39-2	53656	57768	56040	55821	3.70	cps
Rhodium	103-1	15403632	15227061	15063333	15231342	1.12	cps
Rhodium	103-2	5021695	4595390	5563967	5060350	9.59	cps
Scandium	45-1	11171588	11095183	11021964	11096245	0.67	cps
Scandium	45-2	177590	160780	197014	178462	10.16	cps
Selenium	82-1	37	143	77	86	62.98	cps
Selenium	77-2	37	60	53	50	24.03	cps
Selenium	78-2	47	37	40	41	12.39	cps
Silicon	28-1	63034696	62269712	60978356	62094255	1.67	cps
Silver	107-1	4924	4451	4337	4571	6.81	cps
Silver	109-1	4504	4314	3984	4267	6.17	cps
Sodium	23-2	94404	95194	94978	94859	0.43	cps
Strontium	86-1	150285	152145	150981	151137	0.62	cps
Strontium	88-1	1313137	1315579	1334872	1321196	0.90	cps
Sulfur	34-1	713149	706556	697304	705670	1.13	cps
Terbium	159-1	21587427	21770691	21210543	21522887	1.33	cps
Terbium	159-2	5638770	5275075	6353839	5755895	9.54	cps
Thallium	203-1	3157	3000	2937	3032	3.74	cps
Thallium	205-1	7609	7492	7269	7457	2.32	cps
Tin	118-1	4224	3971	3774	3990	5.66	cps
Titanium	47-1	21026	45709	23942	30226	44.62	cps
Uranium	238-1	13694	13681	14278	13884	2.46	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:53:45	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	89477	90071	88518	89355	0.88	cps
Ytterbium	172-1	11061	10978	10845	10961	1.00	cps
Ytterbium	172-2	4154	4131	4177	4154	0.56	cps
Ytterbium	176-1	8890	9150	8643	8894	2.85	cps
Ytterbium	176-2	2894	2854	2794	2847	1.77	cps
Yttrium	89-1	29300030	28633977	28299642	28744550	1.77	cps
Yttrium	89-2	1653632	1521640	1814806	1663359	8.83	cps
Zinc	66-2	39121	38923	38937	38994	0.28	cps
Zirconium	90-1	14230	16986	13248	14821	13.07	cps
Zirconium	91-1	3421	3167	3214	3267	4.13	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	787887	793634	794972	792164	0.48	cps
Antimony	121-1	5011	5421	4978	5137	4.81	cps
Arsenic	75-2	8706	8519	8773	8666	1.52	cps
Barium	135-1	516247	517418	513193	515619	0.42	cps
Barium	137-1	903102	904596	907246	904981	0.23	cps
Beryllium	9-1	3561	3521	3472	3518	1.26	cps
Bismuth	209-1	13341991	13263071	13500420	13368494	0.90	cps
Bismuth	209-2	4999734	5089382	5005155	5031424	1.00	cps
Bromine	81-1	6548	6832	6438	6606	3.07	cps
Cadmium	108-1	130	113	127	123	7.15	cps
Cadmium	106-1	8223	8099	8389	8237	1.77	cps
Cadmium	111-1	6175	5967	6274	6138	2.55	cps
Calcium	43-1	165759	164600	166305	165555	0.53	cps
Calcium	44-1	2809852	2824930	2755439	2796740	1.31	cps
Carbon	12-1	3764537	3800606	3767791	3777644	0.53	cps
Carbon	12-2	24798	25242	24387	24809	1.72	cps
Chlorine	35-1	92171485	98496822	101397535	97355281	4.85	cps
Chlorine	35-2	388465	390742	394418	391208	0.77	cps
Chromium	52-2	95956	96882	97127	96655	0.64	cps
Cobalt	59-2	102291	102656	101965	102304	0.34	cps
Copper	63-2	272221	272737	273649	272869	0.27	cps
Dysprosium	156-1	39725	39946	39261	39644	0.88	cps
Dysprosium	156-2	13157	13093	13393	13214	1.20	cps
Erbium	164-1	36941	37834	37570	37448	1.22	cps
Erbium	164-2	11322	11615	11542	11493	1.33	cps
Gadolinium	160-1	41401	40421	41775	41199	1.70	cps
Gadolinium	160-2	16126	16033	15976	16045	0.47	cps
Holmium	165-1	21192754	20869823	21286825	21116467	1.04	cps
Holmium	165-2	6702922	6701684	6707447	6704018	0.05	cps
Indium	115-1	16970463	16555997	16425235	16650565	1.71	cps
Indium	115-2	1418939	1422114	1426504	1422519	0.27	cps
Iron	54-2	4758906	4681142	4714342	4718130	0.83	cps
Iron	56-2	85727040	85295132	86172644	85731605	0.51	cps
Iron	57-2	2153417	2189400	2184073	2175630	0.89	cps
Krypton	83-1	347	320	333	333	4.00	cps
Lead	206-1	191020	190852	191727	191200	0.24	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	155231	155657	154311	155066	0.44	cps
Lead	208-1	732461	734613	731401	732825	0.22	cps
Lithium	6-1	8068817	7925836	7936917	7977190	1.00	cps
Magnesium	24-2	1413547	1415420	1408880	1412615	0.24	cps
Manganese	55-2	350951	349835	351926	350904	0.30	cps
Molybdenum	94-1	7143	7216	7092	7150	0.87	cps
Molybdenum	95-1	4121	4141	3921	4061	3.00	cps
Molybdenum	96-1	6168	5401	5518	5696	7.26	cps
Molybdenum	97-1	2540	2377	2567	2495	4.12	cps
Molybdenum	98-1	6465	6418	6815	6566	3.30	cps
Neodymium	150-1	42674	42975	42808	42819	0.35	cps
Neodymium	150-2	9180	9217	9046	9148	0.98	cps
Nickel	60-2	73636	74051	74185	73957	0.39	cps
Phosphorus	31-2	1017	1027	1013	1019	0.68	cps
Potassium	39-2	55365	53325	53503	54064	2.09	cps
Rhodium	103-1	15652344	15521410	15464494	15546083	0.62	cps
Rhodium	103-2	5668511	5587718	5595542	5617257	0.79	cps
Scandium	45-1	11434626	11338657	11225776	11333020	0.92	cps
Scandium	45-2	200289	196235	201218	199247	1.33	cps
Selenium	82-1	133	113	113	120	9.62	cps
Selenium	77-2	83	63	53	67	22.91	cps
Selenium	78-2	70	50	40	53	28.64	cps
Silicon	28-1	61625207	62732102	64373659	62910323	2.20	cps
Silver	107-1	3891	4077	4241	4070	4.30	cps
Silver	109-1	3307	3694	3844	3615	7.66	cps
Sodium	23-2	88727	89616	89549	89298	0.55	cps
Strontium	86-1	152357	153306	152864	152842	0.31	cps
Strontium	88-1	1323988	1328012	1332306	1328102	0.31	cps
Sulfur	34-1	685435	682378	678770	682195	0.49	cps
Terbium	159-1	21689531	21520336	21356510	21522126	0.77	cps
Terbium	159-2	6413932	6484973	6479243	6459383	0.61	cps
Thallium	203-1	2620	2814	3087	2840	8.26	cps
Thallium	205-1	6185	6535	7436	6718	9.60	cps
Tin	118-1	3847	3767	3937	3851	2.21	cps
Titanium	47-1	30264	27117	29291	28891	5.58	cps
Uranium	238-1	13738	14022	13637	13799	1.45	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 13:57:03	DataFile Name :	020AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	90581	90282	89149	90004	0.84	cps
Ytterbium	172-1	11041	10347	10908	10766	3.42	cps
Ytterbium	172-2	3994	4127	3984	4035	1.98	cps
Ytterbium	176-1	8369	8786	8256	8471	3.30	cps
Ytterbium	176-2	2807	2760	2930	2833	3.10	cps
Yttrium	89-1	29025150	29242992	29117978	29128707	0.38	cps
Yttrium	89-2	1855512	1812381	1867467	1845120	1.57	cps
Zinc	66-2	38536	39388	39010	38978	1.10	cps
Zirconium	90-1	12179	13409	13277	12955	5.21	cps
Zirconium	91-1	14334	2964	3010	6769	96.78	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	158094	157917	156052	157354	0.72	cps
Antimony	121-1	1077	1250	1027	1118	10.49	cps
Arsenic	75-2	1737	1743	1727	1736	0.48	cps
Barium	135-1	103189	103324	103888	103467	0.36	cps
Barium	137-1	179713	180557	180221	180164	0.24	cps
Beryllium	9-1	1075	1171	1074	1107	5.05	cps
Bismuth	209-1	13344141	13335717	13371543	13350467	0.14	cps
Bismuth	209-2	5027330	4999458	4986469	5004419	0.42	cps
Bromine	81-1	5111	4868	4928	4969	2.55	cps
Cadmium	108-1	30	57	40	42	31.91	cps
Cadmium	106-1	7886	7315	7852	7684	4.17	cps
Cadmium	111-1	5676	5221	5569	5488	4.33	cps
Calcium	43-1	33542	33730	33883	33718	0.51	cps
Calcium	44-1	566526	566097	565576	566066	0.08	cps
Carbon	12-1	3401329	3372305	3410232	3394622	0.58	cps
Carbon	12-2	22294	22017	22247	22186	0.67	cps
Chlorine	35-1	23640878	24282560	24549559	24157665	1.93	cps
Chlorine	35-2	89940	90937	90430	90436	0.55	cps
Chromium	52-2	19470	19757	19971	19733	1.27	cps
Cobalt	59-2	20738	20665	20241	20548	1.31	cps
Copper	63-2	56682	56867	56244	56598	0.56	cps
Dysprosium	156-1	7832	8103	8056	7997	1.81	cps
Dysprosium	156-2	2544	2527	2537	2536	0.33	cps
Erbium	164-1	7922	7499	7646	7689	2.80	cps
Erbium	164-2	2344	2267	2350	2320	2.00	cps
Gadolinium	160-1	8333	8456	8196	8328	1.56	cps
Gadolinium	160-2	3320	2990	3154	3155	5.23	cps
Holmium	165-1	21130163	21033594	21145315	21103024	0.29	cps
Holmium	165-2	6744963	6721301	6754975	6740413	0.26	cps
Indium	115-1	16624632	16656734	16653562	16644976	0.11	cps
Indium	115-2	1420798	1433569	1432512	1428960	0.50	cps
Iron	54-2	922965	914357	927957	921760	0.75	cps
Iron	56-2	17298692	17169068	16934226	17133995	1.08	cps
Iron	57-2	425449	419573	420960	421994	0.73	cps
Krypton	83-1	347	300	313	320	7.51	cps
Lead	206-1	41296	41406	41787	41496	0.62	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	34436	33824	34593	34284	1.18	cps
Lead	208-1	161422	159033	162024	160826	0.98	cps
Lithium	6-1	8112199	7784870	7781458	7892842	2.41	cps
Magnesium	24-2	277438	280587	277735	278587	0.62	cps
Manganese	55-2	70402	72228	69880	70837	1.74	cps
Molybdenum	94-1	1743	1914	2027	1895	7.53	cps
Molybdenum	95-1	973	947	927	949	2.47	cps
Molybdenum	96-1	1393	1203	1270	1289	7.48	cps
Molybdenum	97-1	727	590	613	643	11.36	cps
Molybdenum	98-1	1640	1483	1610	1578	5.27	cps
Neodymium	150-1	8463	8123	8276	8287	2.06	cps
Neodymium	150-2	1787	1790	1823	1800	1.13	cps
Nickel	60-2	15402	15345	15475	15407	0.42	cps
Phosphorus	31-2	283	293	287	288	1.77	cps
Potassium	39-2	19213	18929	19321	19154	1.06	cps
Rhodium	103-1	15608584	15555282	15515258	15559708	0.30	cps
Rhodium	103-2	5648208	5651796	5566470	5622158	0.86	cps
Scandium	45-1	11277031	11154690	11189552	11207091	0.56	cps
Scandium	45-2	193460	194045	195111	194205	0.43	cps
Selenium	82-1	-3	0	3	0	0.00	cps
Selenium	77-2	7	7	7	7	0.00	cps
Selenium	78-2	20	7	17	14	48.02	cps
Silicon	28-1	15108019	12971658	12964946	13681541	9.03	cps
Silver	107-1	860	983	963	936	7.08	cps
Silver	109-1	850	813	883	849	4.13	cps
Sodium	23-2	68466	68333	67070	67956	1.13	cps
Strontium	86-1	30884	31415	31024	31108	0.88	cps
Strontium	88-1	266199	268715	268934	267950	0.57	cps
Sulfur	34-1	660483	656784	652411	656559	0.62	cps
Terbium	159-1	21170761	21242148	21264433	21225781	0.23	cps
Terbium	159-2	6384698	6380939	6412947	6392861	0.27	cps
Thallium	203-1	1180	1093	1073	1116	5.08	cps
Thallium	205-1	2680	2674	2440	2598	5.26	cps
Tin	118-1	2827	2620	2607	2685	4.60	cps
Titanium	47-1	4184	4935	5757	4959	15.87	cps
Uranium	238-1	2600	2660	2747	2669	2.76	cps

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On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDLX10	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	10
Date & Time Acquired :	2025-02-11 14:00:19	DataFile Name :	021AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17631	17644	18419	17898	2.52	cps
Ytterbium	172-1	2350	2194	2350	2298	3.94	cps
Ytterbium	172-2	827	923	843	864	5.98	cps
Ytterbium	176-1	3337	3337	3364	3346	0.46	cps
Ytterbium	176-2	770	820	817	802	3.48	cps
Yttrium	89-1	28809450	28723675	28621494	28718207	0.33	cps
Yttrium	89-2	1809980	1831621	1840499	1827367	0.86	cps
Zinc	66-2	8076	8242	7992	8103	1.57	cps
Zirconium	90-1	3280	3127	3357	3255	3.60	cps
Zirconium	91-1	1277	847	760	961	28.81	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	797069	797291	790296	794885	0.50	cps
Antimony	121-1	183308	183810	183605	183574	0.14	cps
Arsenic	75-2	9677	9610	9510	9599	0.87	cps
Barium	135-1	1334111	1319852	1333404	1329122	0.60	cps
Barium	137-1	2405793	2347400	2413247	2388813	1.51	cps
Beryllium	9-1	31781	32166	32006	31984	0.60	cps
Bismuth	209-1	13211981	13356044	13213564	13260530	0.62	cps
Bismuth	209-2	4981856	5106176	5018677	5035570	1.27	cps
Bromine	81-1	6328	6175	6275	6259	1.24	cps
Cadmium	108-1	1657	1747	1613	1672	4.07	cps
Cadmium	106-1	9914	9710	9560	9728	1.82	cps
Cadmium	111-1	28014	27188	27453	27552	1.53	cps
Calcium	43-1	190726	190399	190862	190662	0.12	cps
Calcium	44-1	3061299	3059579	3020440	3047106	0.76	cps
Carbon	12-1	3552608	3489118	3554285	3532004	1.05	cps
Carbon	12-2	23208	22748	23101	23019	1.05	cps
Chlorine	35-1	98296909	105543818	106494978	103445235	4.33	cps
Chlorine	35-2	413648	409340	412045	411678	0.53	cps
Chromium	52-2	163735	164416	165323	164491	0.48	cps
Cobalt	59-2	434104	428666	432375	431715	0.64	cps
Copper	63-2	396899	398399	391909	395736	0.86	cps
Dysprosium	156-1	38639	38184	38943	38589	0.99	cps
Dysprosium	156-2	13013	13484	13103	13200	1.89	cps
Erbium	164-1	36884	37108	37115	37036	0.35	cps
Erbium	164-2	11258	11512	11548	11439	1.38	cps
Gadolinium	160-1	40632	40144	40585	40453	0.67	cps
Gadolinium	160-2	15916	15215	16063	15732	2.88	cps
Holmium	165-1	21287211	21277550	21040518	21201759	0.66	cps
Holmium	165-2	6716757	6807545	6765005	6763102	0.67	cps
Indium	115-1	16660537	16584356	16495135	16580009	0.50	cps
Indium	115-2	1416180	1461441	1431521	1436381	1.60	cps
Iron	54-2	4669113	4567689	4580795	4605866	1.20	cps
Iron	56-2	83977314	84314410	84127760	84139828	0.20	cps
Iron	57-2	2137003	2144325	2099925	2127084	1.12	cps
Krypton	83-1	317	417	323	352	15.87	cps
Lead	206-1	215290	217253	216902	216481	0.48	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	176817	177127	176811	176918	0.10	cps
Lead	208-1	829800	835145	830012	831652	0.36	cps
Lithium	6-1	8126044	7823808	7982229	7977360	1.90	cps
Magnesium	24-2	1415658	1394885	1379623	1396722	1.30	cps
Manganese	55-2	414044	411582	413682	413103	0.32	cps
Molybdenum	94-1	266772	266921	269245	267646	0.52	cps
Molybdenum	95-1	462600	464936	465465	464334	0.33	cps
Molybdenum	96-1	492747	500256	498231	497078	0.78	cps
Molybdenum	97-1	287678	288080	289234	288331	0.28	cps
Molybdenum	98-1	746046	755861	747095	749667	0.72	cps
Neodymium	150-1	41424	41655	42153	41744	0.89	cps
Neodymium	150-2	8693	9063	8986	8914	2.19	cps
Nickel	60-2	165041	164741	164987	164923	0.10	cps
Phosphorus	31-2	1077	1143	1167	1129	4.14	cps
Potassium	39-2	53054	53038	51622	52572	1.56	cps
Rhodium	103-1	15706758	15715586	15271326	15564557	1.63	cps
Rhodium	103-2	5548197	5693487	5588961	5610215	1.34	cps
Scandium	45-1	11277452	11423889	11295612	11332318	0.70	cps
Scandium	45-2	198222	202026	198590	199613	1.05	cps
Selenium	82-1	627	567	600	598	5.03	cps
Selenium	77-2	63	67	73	68	7.51	cps
Selenium	78-2	63	53	70	62	13.48	cps
Silicon	28-1	65918487	61456946	61035739	62803724	4.31	cps
Silver	107-1	108510	109158	109419	109029	0.43	cps
Silver	109-1	103518	103119	105336	103991	1.14	cps
Sodium	23-2	84898	85029	85676	85201	0.49	cps
Strontium	86-1	5875990	5854101	5748111	5826067	1.17	cps
Strontium	88-1	50649066	50575569	50381243	50535293	0.27	cps
Sulfur	34-1	643974	647530	639202	643569	0.65	cps
Terbium	159-1	21510672	21514100	21172030	21398934	0.92	cps
Terbium	159-2	6339971	6636163	6450137	6475424	2.31	cps
Thallium	203-1	86338	88643	88247	87743	1.41	cps
Thallium	205-1	210506	213957	211916	212126	0.82	cps
Tin	118-1	3661	3377	3434	3490	4.30	cps
Titanium	47-1	21618	38599	48649	36289	37.65	cps
Uranium	238-1	13547	14045	13671	13754	1.88	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DLX2	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	2
Date & Time Acquired :	2025-02-11 14:03:40	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	219071	218766	220072	219303	0.31	cps
Ytterbium	172-1	10741	11075	10751	10856	1.75	cps
Ytterbium	172-2	4074	4021	3934	4010	1.76	cps
Ytterbium	176-1	8640	8469	8496	8535	1.07	cps
Ytterbium	176-2	3034	2977	2830	2947	3.56	cps
Yttrium	89-1	29245657	29121253	28759335	29042082	0.87	cps
Yttrium	89-2	1797706	1886557	1838348	1840870	2.42	cps
Zinc	66-2	65862	65202	65574	65546	0.50	cps
Zirconium	90-1	13424	13010	13737	13390	2.73	cps
Zirconium	91-1	3120	3067	4670	3619	25.15	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	90	117	83	97	18.25	cps
Antimony	121-1	180	133	137	150	17.35	cps
Arsenic	75-2	10	17	7	11	45.82	cps
Barium	135-1	217	227	177	207	12.80	cps
Barium	137-1	257	250	283	263	6.70	cps
Beryllium	9-1	390	401	380	390	2.72	cps
Bismuth	209-1	13670634	13653845	13398026	13574169	1.13	cps
Bismuth	209-2	5187091	5095157	5064013	5115420	1.25	cps
Bromine	81-1	4551	4274	4357	4394	3.23	cps
Cadmium	108-1	33	33	33	33	0.00	cps
Cadmium	106-1	8122	7632	8259	8005	4.12	cps
Cadmium	111-1	5679	5366	5785	5610	3.88	cps
Calcium	43-1	367	463	427	419	11.65	cps
Calcium	44-1	25630	26645	25937	26070	2.00	cps
Carbon	12-1	3605543	3592543	3579270	3592452	0.37	cps
Carbon	12-2	23839	23886	24090	23938	0.56	cps
Chlorine	35-1	1338505	1291060	1256272	1295279	3.19	cps
Chlorine	35-2	4357	4277	4241	4292	1.39	cps
Chromium	52-2	730	787	717	744	4.99	cps
Cobalt	59-2	170	140	170	160	10.83	cps
Copper	63-2	2744	2640	2657	2680	2.07	cps
Dysprosium	156-1	50	40	40	43	13.32	cps
Dysprosium	156-2	0	7	10	6	91.64	cps
Erbium	164-1	90	107	127	108	17.03	cps
Erbium	164-2	20	37	33	30	29.40	cps
Gadolinium	160-1	100	113	110	108	6.44	cps
Gadolinium	160-2	23	20	23	22	8.65	cps
Holmium	165-1	20787672	20804899	21211138	20934570	1.14	cps
Holmium	165-2	6718900	6698914	6811720	6743178	0.89	cps
Indium	115-1	16835605	16913182	16632480	16793756	0.86	cps
Indium	115-2	1447892	1446196	1447121	1447070	0.06	cps
Iron	54-2	513	523	503	513	1.95	cps
Iron	56-2	8062	8066	7946	8025	0.85	cps
Iron	57-2	163	257	247	222	23.06	cps
Krypton	83-1	297	307	240	281	12.79	cps
Lead	206-1	2837	2717	2700	2751	2.71	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2294	2274	2110	2226	4.52	cps
Lead	208-1	10685	10912	10402	10666	2.40	cps
Lithium	6-1	7863288	8008021	7889288	7920199	0.97	cps
Magnesium	24-2	2780	2687	2794	2754	2.11	cps
Manganese	55-2	160	170	173	168	4.14	cps
Molybdenum	94-1	433	457	460	450	3.23	cps
Molybdenum	95-1	187	207	167	187	10.71	cps
Molybdenum	96-1	230	313	190	244	25.74	cps
Molybdenum	97-1	130	93	103	109	17.41	cps
Molybdenum	98-1	263	223	260	249	8.92	cps
Neodymium	150-1	17	20	17	18	10.81	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	873	867	863	868	0.59	cps
Phosphorus	31-2	103	67	53	74	34.78	cps
Potassium	39-2	10407	10250	10531	10396	1.35	cps
Rhodium	103-1	15457629	15488946	15541379	15495985	0.27	cps
Rhodium	103-2	5692630	5711550	5675582	5693254	0.32	cps
Scandium	45-1	10925194	11284694	11300287	11170058	1.90	cps
Scandium	45-2	194836	196880	198941	196885	1.04	cps
Selenium	82-1	7	-37	63	11	451.11	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	0	17	11	86.60	cps
Silicon	28-1	529888	532878	532114	531627	0.29	cps
Silver	107-1	223	227	293	248	15.94	cps
Silver	109-1	133	170	120	141	18.35	cps
Sodium	23-2	61556	60301	60963	60940	1.03	cps
Strontium	86-1	613	557	613	594	5.50	cps
Strontium	88-1	1180	1227	1390	1266	8.71	cps
Sulfur	34-1	689294	691328	702327	694316	1.01	cps
Terbium	159-1	21541026	21814210	21328514	21561250	1.13	cps
Terbium	159-2	6474682	6448495	6461725	6461634	0.20	cps
Thallium	203-1	780	743	707	743	4.93	cps
Thallium	205-1	1820	1787	1757	1788	1.77	cps
Tin	118-1	3130	3120	3107	3119	0.38	cps
Titanium	47-1	523	583	487	531	9.19	cps
Uranium	238-1	53	23	20	32	56.98	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BL	Instrumnet Name :	P8
Client Sample ID :	PBW570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:15:28	DataFile Name :	023CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	17	10	11	45.82	cps
Ytterbium	172-1	127	117	123	122	4.17	cps
Ytterbium	172-2	40	47	40	42	9.12	cps
Ytterbium	176-1	1900	1920	2160	1994	7.26	cps
Ytterbium	176-2	373	260	303	312	18.32	cps
Yttrium	89-1	28024745	28083446	28461445	28189879	0.84	cps
Yttrium	89-2	1869135	1819412	1844663	1844404	1.35	cps
Zinc	66-2	277	207	200	228	18.65	cps
Zirconium	90-1	900	993	1083	992	9.24	cps
Zirconium	91-1	267	200	200	222	17.32	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2977	2987	2840	2935	2.79	cps
Antimony	121-1	75366	75648	74682	75232	0.66	cps
Arsenic	75-2	747	730	723	733	1.64	cps
Barium	135-1	87701	88611	88033	88115	0.52	cps
Barium	137-1	150924	152317	152849	152030	0.65	cps
Beryllium	9-1	13068	12988	12857	12971	0.82	cps
Bismuth	209-1	13613427	13381374	13318186	13437662	1.16	cps
Bismuth	209-2	5172859	5024255	5066970	5088028	1.50	cps
Bromine	81-1	4427	4431	4507	4455	1.02	cps
Cadmium	108-1	933	797	850	860	8.01	cps
Cadmium	106-1	9193	9080	9583	9285	2.85	cps
Cadmium	111-1	14995	15028	15487	15170	1.81	cps
Calcium	43-1	59516	60366	59526	59802	0.82	cps
Calcium	44-1	971725	978430	977811	975989	0.38	cps
Carbon	12-1	3703673	3698098	3626819	3676197	1.17	cps
Carbon	12-2	24404	24554	24253	24404	0.62	cps
Chlorine	35-1	2471597	2683294	2719997	2624963	5.11	cps
Chlorine	35-2	10731	10360	10807	10633	2.25	cps
Chromium	52-2	15101	15475	15095	15224	1.43	cps
Cobalt	59-2	14524	14821	14411	14585	1.45	cps
Copper	63-2	27427	27417	27083	27309	0.72	cps
Dysprosium	156-1	53	60	20	44	48.22	cps
Dysprosium	156-2	13	10	3	9	57.30	cps
Erbium	164-1	127	100	127	118	13.07	cps
Erbium	164-2	27	27	33	29	13.31	cps
Gadolinium	160-1	83	97	123	101	20.15	cps
Gadolinium	160-2	17	0	13	10	88.20	cps
Holmium	165-1	21165149	21009167	20945289	21039869	0.54	cps
Holmium	165-2	6931859	6694296	6726824	6784326	1.90	cps
Indium	115-1	17125488	16701437	16724763	16850563	1.41	cps
Indium	115-2	1468491	1452864	1437365	1452907	1.07	cps
Iron	54-2	61029	61883	61582	61498	0.70	cps
Iron	56-2	1123086	1129415	1122975	1125159	0.33	cps
Iron	57-2	28629	27988	28135	28250	1.19	cps
Krypton	83-1	287	307	260	284	8.23	cps
Lead	206-1	31699	32798	32370	32289	1.72	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27937	27736	28835	28170	2.08	cps
Lead	208-1	127395	129665	129344	128801	0.95	cps
Lithium	6-1	7987905	7860001	7945430	7931112	0.82	cps
Magnesium	24-2	249722	250900	251155	250592	0.31	cps
Manganese	55-2	3110	3117	3124	3117	0.21	cps
Molybdenum	94-1	133130	133298	133321	133250	0.08	cps
Molybdenum	95-1	194910	196405	194471	195262	0.52	cps
Molybdenum	96-1	211036	212659	210606	211434	0.51	cps
Molybdenum	97-1	120998	122092	120817	121302	0.57	cps
Molybdenum	98-1	310432	313712	312357	312167	0.53	cps
Neodymium	150-1	17	37	17	23	49.48	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	4828	4724	4951	4834	2.35	cps
Phosphorus	31-2	250	280	220	250	12.00	cps
Potassium	39-2	145232	145737	146396	145788	0.40	cps
Rhodium	103-1	15702396	15603961	15735173	15680510	0.44	cps
Rhodium	103-2	5721737	5712566	5611819	5682041	1.07	cps
Scandium	45-1	11308777	11119028	11199264	11209023	0.85	cps
Scandium	45-2	203148	200705	197666	200506	1.37	cps
Selenium	82-1	2724	2840	2790	2785	2.10	cps
Selenium	77-2	43	27	30	33	26.45	cps
Selenium	78-2	167	173	150	163	7.36	cps
Silicon	28-1	858676	863063	862674	861471	0.28	cps
Silver	107-1	45505	46455	46605	46188	1.29	cps
Silver	109-1	43636	43980	43967	43861	0.44	cps
Sodium	23-2	563172	563198	570580	565650	0.75	cps
Strontium	86-1	21453	22044	21847	21781	1.38	cps
Strontium	88-1	186315	187855	187589	187253	0.44	cps
Sulfur	34-1	715949	717189	721598	718245	0.41	cps
Terbium	159-1	21719594	21247044	21540591	21502409	1.11	cps
Terbium	159-2	6613024	6455192	6464170	6510795	1.36	cps
Thallium	203-1	36508	36622	37096	36742	0.85	cps
Thallium	205-1	91164	88540	90301	90002	1.49	cps
Tin	118-1	149724	151703	152553	151327	0.96	cps
Titanium	47-1	7319	7175	7255	7250	0.99	cps
Uranium	238-1	110374	112207	111189	111257	0.83	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166570BS	Instrumnet Name :	P8
Client Sample ID :	LCS570	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:18:49	DataFile Name :	024LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	29133	28909	28852	28965	0.51	cps
Ytterbium	172-1	137	133	127	132	3.85	cps
Ytterbium	172-2	57	33	60	50	29.06	cps
Ytterbium	176-1	2197	2374	2244	2271	4.03	cps
Ytterbium	176-2	380	340	380	367	6.30	cps
Yttrium	89-1	29247055	28613975	28421315	28760782	1.50	cps
Yttrium	89-2	1868754	1810392	1796589	1825245	2.10	cps
Zinc	66-2	6271	6118	5888	6092	3.17	cps
Zirconium	90-1	63483	65061	63058	63867	1.65	cps
Zirconium	91-1	14010	14261	13990	14087	1.07	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	187	177	153	172	9.93	cps
Antimony	121-1	160	167	147	158	6.45	cps
Arsenic	75-2	7	10	17	11	45.82	cps
Barium	135-1	310	397	397	368	13.61	cps
Barium	137-1	503	447	540	497	9.47	cps
Beryllium	9-1	374	365	394	377	3.90	cps
Bismuth	209-1	14183191	13980729	13698153	13954024	1.75	cps
Bismuth	209-2	5278453	5217033	5201244	5232243	0.78	cps
Bromine	81-1	4121	4154	4254	4176	1.66	cps
Cadmium	108-1	37	17	30	28	36.66	cps
Cadmium	106-1	8226	8326	8496	8349	1.64	cps
Cadmium	111-1	5776	5863	5973	5871	1.68	cps
Calcium	43-1	787	797	720	768	5.43	cps
Calcium	44-1	31381	31241	31401	31341	0.28	cps
Carbon	12-1	4231120	4687188	4994199	4637502	8.28	cps
Carbon	12-2	34654	35610	36037	35434	2.00	cps
Chlorine	35-1	870118	834926	807230	837425	3.76	cps
Chlorine	35-2	2744	2904	2734	2794	3.42	cps
Chromium	52-2	1520	1607	1537	1555	2.96	cps
Cobalt	59-2	63	103	110	92	27.37	cps
Copper	63-2	2800	2874	2774	2816	1.84	cps
Dysprosium	156-1	40	23	53	39	38.65	cps
Dysprosium	156-2	7	3	0	3	100.05	cps
Erbium	164-1	103	117	130	117	11.43	cps
Erbium	164-2	37	27	17	27	37.50	cps
Gadolinium	160-1	150	90	110	117	26.19	cps
Gadolinium	160-2	23	17	20	20	16.65	cps
Holmium	165-1	21936966	21759127	21289691	21661928	1.54	cps
Holmium	165-2	6811110	6915124	6808524	6844919	0.89	cps
Indium	115-1	17424113	17382266	17230353	17345577	0.59	cps
Indium	115-2	1496153	1485910	1463527	1481863	1.13	cps
Iron	54-2	623	640	780	681	12.63	cps
Iron	56-2	10334	10020	10240	10198	1.58	cps
Iron	57-2	260	223	197	227	14.03	cps
Krypton	83-1	267	337	273	292	13.22	cps
Lead	206-1	4571	3924	3534	4010	13.06	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3857	3234	3000	3364	13.17	cps
Lead	208-1	17855	14963	13936	15585	13.04	cps
Lithium	6-1	8273041	7982010	8195113	8150055	1.85	cps
Magnesium	24-2	2980	3074	3330	3128	5.80	cps
Manganese	55-2	687	643	807	712	11.88	cps
Molybdenum	94-1	307	443	403	384	18.28	cps
Molybdenum	95-1	137	150	143	143	4.65	cps
Molybdenum	96-1	227	220	220	222	1.73	cps
Molybdenum	97-1	120	100	117	112	9.55	cps
Molybdenum	98-1	230	220	157	202	19.66	cps
Neodymium	150-1	17	3	43	21	96.48	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	843	857	897	866	3.21	cps
Phosphorus	31-2	113	107	113	111	3.46	cps
Potassium	39-2	10260	10931	10521	10571	3.20	cps
Rhodium	103-1	16255988	16127922	15905401	16096437	1.10	cps
Rhodium	103-2	5740710	5808568	5741725	5763668	0.67	cps
Scandium	45-1	11452886	11489165	11429967	11457339	0.26	cps
Scandium	45-2	201861	206424	201915	203400	1.29	cps
Selenium	82-1	-10	-90	57	-14	-508.44	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	7	0	3	100.05	cps
Silicon	28-1	687300	696304	704874	696159	1.26	cps
Silver	107-1	417	500	447	454	9.29	cps
Silver	109-1	317	257	233	269	15.99	cps
Sodium	23-2	69786	69967	69846	69866	0.13	cps
Strontium	86-1	760	927	1023	903	14.75	cps
Strontium	88-1	4474	4297	4151	4307	3.76	cps
Sulfur	34-1	723574	723250	725958	724261	0.20	cps
Terbium	159-1	22512836	22125871	22043115	22227274	1.13	cps
Terbium	159-2	6712862	6576837	6556106	6615268	1.29	cps
Thallium	203-1	927	837	663	809	16.55	cps
Thallium	205-1	2197	1800	1590	1862	16.55	cps
Tin	118-1	3190	3277	3320	3263	2.03	cps
Titanium	47-1	340	330	290	320	8.27	cps
Uranium	238-1	27	47	63	46	40.29	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1135-09	Instrumnet Name :	P8
Client Sample ID :	YE8H7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:22:18	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	20	10	14	35.26	cps
Ytterbium	172-1	130	123	123	126	3.06	cps
Ytterbium	172-2	50	37	47	44	15.61	cps
Ytterbium	176-1	2087	2134	1930	2050	5.20	cps
Ytterbium	176-2	277	320	327	308	8.82	cps
Yttrium	89-1	30242858	29585202	29054671	29627577	2.01	cps
Yttrium	89-2	1854619	1841045	1811419	1835695	1.20	cps
Zinc	66-2	247	243	253	248	2.06	cps
Zirconium	90-1	1110	1043	907	1020	10.16	cps
Zirconium	91-1	223	183	177	194	12.98	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	93	113	97	15.81	cps
Antimony	121-1	130	97	117	114	14.66	cps
Arsenic	75-2	13	3	0	6	124.93	cps
Barium	135-1	157	250	203	203	22.95	cps
Barium	137-1	323	260	287	290	10.96	cps
Beryllium	9-1	354	344	357	352	2.02	cps
Bismuth	209-1	13607290	13346546	13285507	13413114	1.27	cps
Bismuth	209-2	5077988	5004051	5070557	5050866	0.81	cps
Bromine	81-1	4304	4204	4257	4255	1.18	cps
Cadmium	108-1	40	30	20	30	33.33	cps
Cadmium	106-1	8339	7592	7772	7901	4.93	cps
Cadmium	111-1	5829	5330	5450	5537	4.71	cps
Calcium	43-1	477	390	393	420	11.69	cps
Calcium	44-1	25422	25272	25356	25350	0.30	cps
Carbon	12-1	4081839	3981313	3922052	3995068	2.02	cps
Carbon	12-2	25515	25452	24951	25306	1.22	cps
Chlorine	35-1	671964	655612	643981	657186	2.14	cps
Chlorine	35-2	2224	2160	2177	2187	1.50	cps
Chromium	52-2	787	710	693	730	6.82	cps
Cobalt	59-2	160	120	137	139	14.47	cps
Copper	63-2	2624	2657	2804	2695	3.55	cps
Dysprosium	156-1	57	50	60	56	9.17	cps
Dysprosium	156-2	0	3	3	2	86.60	cps
Erbium	164-1	80	127	77	94	29.60	cps
Erbium	164-2	40	37	43	40	8.32	cps
Gadolinium	160-1	127	110	113	117	7.56	cps
Gadolinium	160-2	20	17	30	22	31.22	cps
Holmium	165-1	20849235	20700029	20724787	20758017	0.39	cps
Holmium	165-2	6630606	6721061	6661490	6671052	0.69	cps
Indium	115-1	16716741	16976759	16474929	16722810	1.50	cps
Indium	115-2	1424596	1423002	1428478	1425359	0.20	cps
Iron	54-2	470	463	487	473	2.54	cps
Iron	56-2	6998	6675	7169	6947	3.61	cps
Iron	57-2	117	173	190	160	24.03	cps
Krypton	83-1	297	307	327	310	4.93	cps
Lead	206-1	2177	2224	2014	2138	5.16	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1767	1773	1777	1772	0.29	cps
Lead	208-1	8098	8171	8034	8101	0.84	cps
Lithium	6-1	8023640	7851060	7912857	7929185	1.10	cps
Magnesium	24-2	2884	3190	3000	3025	5.12	cps
Manganese	55-2	143	113	110	122	15.02	cps
Molybdenum	94-1	477	430	410	439	7.80	cps
Molybdenum	95-1	177	153	193	174	11.52	cps
Molybdenum	96-1	270	213	247	243	11.70	cps
Molybdenum	97-1	117	110	140	122	12.89	cps
Molybdenum	98-1	257	297	257	270	8.55	cps
Neodymium	150-1	23	10	10	14	53.28	cps
Neodymium	150-2	3	0	3	2	86.60	cps
Nickel	60-2	790	813	733	779	5.28	cps
Phosphorus	31-2	90	80	73	81	10.34	cps
Potassium	39-2	9660	10471	10127	10086	4.03	cps
Rhodium	103-1	15528866	15403719	15276956	15403181	0.82	cps
Rhodium	103-2	5654509	5636026	5547759	5612765	1.02	cps
Scandium	45-1	10958050	11031114	10947004	10978723	0.42	cps
Scandium	45-2	195596	193825	195548	194990	0.52	cps
Selenium	82-1	-70	-10	-67	-49	-68.97	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	13	13	7	11	34.61	cps
Silicon	28-1	548179	548170	548837	548395	0.07	cps
Silver	107-1	283	310	247	280	11.36	cps
Silver	109-1	130	157	153	147	9.91	cps
Sodium	23-2	58778	59179	59012	58990	0.34	cps
Strontium	86-1	620	590	650	620	4.84	cps
Strontium	88-1	1403	1267	1283	1318	5.66	cps
Sulfur	34-1	734063	734969	734366	734466	0.06	cps
Terbium	159-1	21220697	21266101	21382802	21289867	0.39	cps
Terbium	159-2	6390756	6477218	6413859	6427278	0.70	cps
Thallium	203-1	603	477	550	543	11.70	cps
Thallium	205-1	1253	1080	1127	1153	7.78	cps
Tin	118-1	3154	3097	3060	3104	1.52	cps
Titanium	47-1	577	517	520	538	6.27	cps
Uranium	238-1	43	57	63	54	18.71	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BL	Instrumnet Name :	P8
Client Sample ID :	PBW317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:25:40	DataFile Name :	026CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	23	13	18	28.64	cps
Ytterbium	172-1	110	110	107	109	1.77	cps
Ytterbium	172-2	33	37	47	39	17.85	cps
Ytterbium	176-1	1920	2007	2057	1995	3.47	cps
Ytterbium	176-2	263	337	290	297	12.51	cps
Yttrium	89-1	28525805	27944335	28395065	28288402	1.08	cps
Yttrium	89-2	1802541	1830850	1777917	1803769	1.47	cps
Zinc	66-2	267	247	197	237	15.23	cps
Zirconium	90-1	1020	1023	997	1013	1.43	cps
Zirconium	91-1	190	153	157	167	12.16	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2990	2997	3124	3037	2.47	cps
Antimony	121-1	73164	73570	74753	73829	1.12	cps
Arsenic	75-2	703	707	623	678	6.96	cps
Barium	135-1	85568	86799	87302	86556	1.03	cps
Barium	137-1	152251	152195	151750	152065	0.18	cps
Beryllium	9-1	12958	12820	12892	12890	0.53	cps
Bismuth	209-1	13328545	13389641	13465396	13394528	0.51	cps
Bismuth	209-2	5030484	4988085	5151591	5056720	1.68	cps
Bromine	81-1	4231	4291	4121	4214	2.05	cps
Cadmium	108-1	830	883	877	863	3.37	cps
Cadmium	106-1	8930	8623	8706	8753	1.81	cps
Cadmium	111-1	14836	14788	14687	14770	0.51	cps
Calcium	43-1	59395	58585	59218	59066	0.72	cps
Calcium	44-1	960994	973542	956067	963534	0.94	cps
Carbon	12-1	4138020	4170033	4118816	4142290	0.62	cps
Carbon	12-2	27532	27332	27469	27445	0.37	cps
Chlorine	35-1	2134645	2312818	2396382	2281281	5.86	cps
Chlorine	35-2	9713	9613	9393	9573	1.71	cps
Chromium	52-2	14848	14875	14885	14869	0.13	cps
Cobalt	59-2	14838	14641	14724	14734	0.67	cps
Copper	63-2	26926	26698	26859	26828	0.44	cps
Dysprosium	156-1	77	53	43	58	29.61	cps
Dysprosium	156-2	7	7	7	7	0.00	cps
Erbium	164-1	130	80	87	99	27.45	cps
Erbium	164-2	33	30	47	37	24.06	cps
Gadolinium	160-1	123	157	97	126	23.94	cps
Gadolinium	160-2	23	7	27	19	56.72	cps
Holmium	165-1	21165296	20695327	20723832	20861485	1.26	cps
Holmium	165-2	6700262	6684173	6711955	6698797	0.21	cps
Indium	115-1	16722258	16569250	16367012	16552840	1.08	cps
Indium	115-2	1433909	1425313	1460030	1439751	1.26	cps
Iron	54-2	61010	61241	62285	61512	1.10	cps
Iron	56-2	1113026	1104063	1120262	1112450	0.73	cps
Iron	57-2	27363	27804	27500	27556	0.82	cps
Krypton	83-1	283	280	320	294	7.54	cps
Lead	206-1	31335	31388	31595	31439	0.44	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27800	27292	27215	27436	1.16	cps
Lead	208-1	125494	125344	124861	125233	0.26	cps
Lithium	6-1	8014041	7922727	7968687	7968485	0.57	cps
Magnesium	24-2	249348	247223	248463	248345	0.43	cps
Manganese	55-2	3010	3147	3080	3079	2.22	cps
Molybdenum	94-1	73405	73067	72927	73133	0.34	cps
Molybdenum	95-1	88784	87755	90177	88905	1.37	cps
Molybdenum	96-1	100315	100171	100097	100194	0.11	cps
Molybdenum	97-1	55085	55855	55099	55346	0.80	cps
Molybdenum	98-1	142735	143718	146215	144222	1.24	cps
Neodymium	150-1	40	20	23	28	38.58	cps
Neodymium	150-2	0	10	3	4	114.60	cps
Nickel	60-2	4831	4671	4814	4772	1.84	cps
Phosphorus	31-2	213	230	193	212	8.65	cps
Potassium	39-2	146340	143916	144569	144942	0.87	cps
Rhodium	103-1	15840646	15491205	15403042	15578298	1.49	cps
Rhodium	103-2	5717431	5611434	5580524	5636463	1.27	cps
Scandium	45-1	11139448	11013459	10915987	11022965	1.02	cps
Scandium	45-2	199251	197548	200035	198945	0.64	cps
Selenium	82-1	2730	2570	2920	2740	6.40	cps
Selenium	77-2	40	27	43	37	24.04	cps
Selenium	78-2	153	163	187	168	10.19	cps
Silicon	28-1	861258	867916	861934	863703	0.42	cps
Silver	107-1	44364	46441	46154	45653	2.46	cps
Silver	109-1	42997	44060	43498	43519	1.22	cps
Sodium	23-2	562873	560366	562423	561887	0.24	cps
Strontium	86-1	11715	12582	12032	12110	3.62	cps
Strontium	88-1	101418	100471	103104	101664	1.31	cps
Sulfur	34-1	728769	730980	730542	730097	0.16	cps
Terbium	159-1	21422802	21596873	21166609	21395428	1.01	cps
Terbium	159-2	6461743	6438002	6506708	6468817	0.54	cps
Thallium	203-1	36916	36357	36702	36658	0.77	cps
Thallium	205-1	87466	87338	87794	87533	0.27	cps
Tin	118-1	148309	150870	149667	149616	0.86	cps
Titanium	47-1	7349	6998	7219	7189	2.46	cps
Uranium	238-1	109229	110345	110417	109997	0.61	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166317BS	Instrumnet Name :	P8
Client Sample ID :	LCS317	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:29:05	DataFile Name :	027LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	29247	28438	28385	28690	1.68	cps
Ytterbium	172-1	137	97	150	128	21.72	cps
Ytterbium	172-2	43	27	53	41	32.76	cps
Ytterbium	176-1	2107	2107	2014	2076	2.60	cps
Ytterbium	176-2	360	360	343	354	2.72	cps
Yttrium	89-1	28717067	28257405	27930601	28301691	1.40	cps
Yttrium	89-2	1800960	1795141	1798872	1798324	0.16	cps
Zinc	66-2	5875	5908	5895	5892	0.29	cps
Zirconium	90-1	62275	62945	62656	62625	0.54	cps
Zirconium	91-1	13947	13837	13620	13801	1.21	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	633	660	617	637	3.43	cps
Antimony	121-1	903	930	933	922	1.78	cps
Arsenic	75-2	127	137	97	120	17.35	cps
Barium	135-1	75804	75274	74966	75348	0.56	cps
Barium	137-1	129997	133766	133326	132363	1.56	cps
Beryllium	9-1	320	350	314	328	5.91	cps
Bismuth	209-1	12360129	12159719	12388507	12302785	1.01	cps
Bismuth	209-2	4583568	4728328	4545485	4619127	2.09	cps
Bromine	81-1	97093	109353	119480	108642	10.32	cps
Cadmium	108-1	37	27	33	32	15.80	cps
Cadmium	106-1	7836	7982	8199	8006	2.28	cps
Cadmium	111-1	5519	5602	5753	5625	2.10	cps
Calcium	43-1	19410115	19496383	19674969	19527156	0.69	cps
Calcium	44-1	311745822	314473229	315117255	313778769	0.57	cps
Carbon	12-1	6199554	7069999	7530544	6933366	9.75	cps
Carbon	12-2	55039	56003	57006	56016	1.76	cps
Chlorine	35-1	2997063	3260922	3342415	3200133	5.64	cps
Chlorine	35-2	12916	13126	12799	12947	1.28	cps
Chromium	52-2	2337	2434	2013	2261	9.73	cps
Cobalt	59-2	310	327	340	326	4.62	cps
Copper	63-2	3204	3200	3110	3172	1.67	cps
Dysprosium	156-1	310	287	260	286	8.76	cps
Dysprosium	156-2	73	110	107	97	20.98	cps
Erbium	164-1	397	347	330	358	9.70	cps
Erbium	164-2	97	143	100	113	22.97	cps
Gadolinium	160-1	340	433	310	361	17.81	cps
Gadolinium	160-2	103	83	113	100	15.28	cps
Holmium	165-1	20402756	20299464	20834414	20512211	1.38	cps
Holmium	165-2	6471565	6596433	6540870	6536289	0.96	cps
Indium	115-1	15717160	16056269	15887126	15886852	1.07	cps
Indium	115-2	1341717	1366135	1338539	1348797	1.12	cps
Iron	54-2	112323	111709	112559	112197	0.39	cps
Iron	56-2	2138185	2137755	2093256	2123066	1.22	cps
Iron	57-2	51379	51098	51994	51490	0.89	cps
Krypton	83-1	280	260	233	258	9.08	cps
Lead	206-1	3084	3084	2950	3039	2.53	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2604	2644	2530	2593	2.22	cps
Lead	208-1	12252	12129	11932	12105	1.33	cps
Lithium	6-1	7521436	7514477	7612071	7549328	0.72	cps
Magnesium	24-2	27104995	27107735	27218039	27143589	0.24	cps
Manganese	55-2	40190	39602	40577	40123	1.22	cps
Molybdenum	94-1	3080	2997	2934	3004	2.45	cps
Molybdenum	95-1	3107	3397	3317	3274	4.58	cps
Molybdenum	96-1	3594	3560	3620	3592	0.84	cps
Molybdenum	97-1	2097	1977	2170	2081	4.69	cps
Molybdenum	98-1	4958	5274	5261	5164	3.47	cps
Neodymium	150-1	297	350	340	329	8.62	cps
Neodymium	150-2	90	70	57	72	23.23	cps
Nickel	60-2	1207	1157	1350	1238	8.11	cps
Phosphorus	31-2	117	103	73	98	22.70	cps
Potassium	39-2	465288	462418	460109	462605	0.56	cps
Rhodium	103-1	13979210	14231310	14297942	14169488	1.19	cps
Rhodium	103-2	5113480	5203076	5125784	5147447	0.94	cps
Scandium	45-1	10645510	10490357	10699503	10611790	1.02	cps
Scandium	45-2	192303	193427	189742	191824	0.98	cps
Selenium	82-1	83	153	250	162	51.59	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	7	3	20	10	88.20	cps
Silicon	28-1	71972664	72404511	72013361	72130178	0.33	cps
Silver	107-1	643	597	647	629	4.45	cps
Silver	109-1	340	353	287	327	10.80	cps
Sodium	23-2	14386268	14553925	14495396	14478530	0.59	cps
Strontium	86-1	74586052	75384509	75645964	75205508	0.73	cps
Strontium	88-1	655917177	661681910	663061857	660220315	0.57	cps
Sulfur	34-1	29137359	29050366	29303048	29163591	0.44	cps
Terbium	159-1	21058938	20520894	21024976	20868270	1.44	cps
Terbium	159-2	6212668	6300243	6226391	6246434	0.75	cps
Thallium	203-1	533	530	480	514	5.81	cps
Thallium	205-1	1360	1177	1233	1257	7.47	cps
Tin	118-1	16113	15549	15639	15767	1.92	cps
Titanium	47-1	1750	1890	1977	1872	6.11	cps
Uranium	238-1	11555	11188	11228	11324	1.78	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1186-01	Instrumnet Name :	P8
Client Sample ID :	ME2948	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:32:25	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	260	317	310	296	10.48	cps
Ytterbium	172-1	210	200	273	228	17.46	cps
Ytterbium	172-2	117	67	97	93	26.96	cps
Ytterbium	176-1	1970	1960	1997	1976	0.96	cps
Ytterbium	176-2	267	327	283	292	10.60	cps
Yttrium	89-1	26897138	27614868	27359726	27290577	1.33	cps
Yttrium	89-2	1759827	1741395	1721147	1740789	1.11	cps
Zinc	66-2	1223	1187	1070	1160	6.90	cps
Zirconium	90-1	3370	3314	3157	3280	3.37	cps
Zirconium	91-1	740	713	710	721	2.28	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	395065	398170	400313	397849	0.66	cps
Antimony	121-1	2347	2590	2310	2416	6.30	cps
Arsenic	75-2	4221	4114	4261	4198	1.81	cps
Barium	135-1	263062	263693	262978	263244	0.15	cps
Barium	137-1	454804	458529	455521	456285	0.43	cps
Beryllium	9-1	1957	1850	1796	1868	4.40	cps
Bismuth	209-1	13591849	13756356	13351588	13566598	1.50	cps
Bismuth	209-2	4808751	4506674	4991613	4769013	5.14	cps
Bromine	81-1	24461	21984	19864	22103	10.41	cps
Cadmium	108-1	67	83	57	69	19.55	cps
Cadmium	106-1	8446	8463	8273	8394	1.25	cps
Cadmium	111-1	6106	6049	6024	6060	0.69	cps
Calcium	43-1	85405	85140	84831	85125	0.34	cps
Calcium	44-1	1463817	1430183	1428002	1440667	1.39	cps
Carbon	12-1	4138647	3945005	3858322	3980658	3.61	cps
Carbon	12-2	24958	24310	24641	24636	1.31	cps
Chlorine	35-1	43411424	47142591	48764209	46439408	5.91	cps
Chlorine	35-2	188403	192053	191233	190563	1.00	cps
Chromium	52-2	49020	48990	49683	49231	0.79	cps
Cobalt	59-2	50533	50804	51135	50824	0.59	cps
Copper	63-2	135819	137888	136441	136716	0.78	cps
Dysprosium	156-1	19965	20496	20235	20232	1.31	cps
Dysprosium	156-2	6665	6895	6712	6757	1.80	cps
Erbium	164-1	19154	19000	19010	19055	0.45	cps
Erbium	164-2	5921	5905	5711	5846	2.00	cps
Gadolinium	160-1	20753	20886	21404	21014	1.64	cps
Gadolinium	160-2	8083	8056	7982	8040	0.64	cps
Holmium	165-1	21647737	21639675	20968669	21418694	1.82	cps
Holmium	165-2	6596876	6022539	6760849	6460088	6.00	cps
Indium	115-1	16910936	16796880	16312313	16673376	1.91	cps
Indium	115-2	1371047	1256496	1425605	1351049	6.39	cps
Iron	54-2	2347148	2367068	2359350	2357855	0.43	cps
Iron	56-2	42723857	43277743	42406692	42802764	1.03	cps
Iron	57-2	1052842	1063091	1064368	1060100	0.60	cps
Krypton	83-1	373	303	303	327	12.37	cps
Lead	206-1	102138	103271	102945	102785	0.57	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	83577	83973	82806	83452	0.71	cps
Lead	208-1	391785	393009	392610	392468	0.16	cps
Lithium	6-1	8020270	7999226	7939024	7986173	0.53	cps
Magnesium	24-2	692569	705208	699792	699190	0.91	cps
Manganese	55-2	176496	176864	175741	176367	0.32	cps
Molybdenum	94-1	3681	5527	12868	7359	66.04	cps
Molybdenum	95-1	1967	2127	1970	2021	4.52	cps
Molybdenum	96-1	2907	2750	2854	2837	2.81	cps
Molybdenum	97-1	1307	1310	1390	1336	3.53	cps
Molybdenum	98-1	3394	3204	3180	3259	3.59	cps
Neodymium	150-1	21674	20876	21260	21270	1.88	cps
Neodymium	150-2	4444	4601	4411	4485	2.26	cps
Nickel	60-2	37285	37322	37423	37343	0.19	cps
Phosphorus	31-2	667	567	573	602	9.28	cps
Potassium	39-2	31866	32356	35998	33407	6.76	cps
Rhodium	103-1	15602222	15689223	15218615	15503353	1.62	cps
Rhodium	103-2	5408489	4920301	5581312	5303367	6.46	cps
Scandium	45-1	11243628	11158606	10809521	11070585	2.08	cps
Scandium	45-2	189677	173770	195272	186240	5.99	cps
Selenium	82-1	-40	-20	17	-14	-198.99	cps
Selenium	77-2	37	13	27	26	45.82	cps
Selenium	78-2	30	10	20	20	50.00	cps
Silicon	28-1	31199160	30942935	31770877	31304324	1.35	cps
Silver	107-1	2444	2220	2270	2311	5.07	cps
Silver	109-1	2057	2027	2090	2058	1.54	cps
Sodium	23-2	75286	76204	76127	75872	0.67	cps
Strontium	86-1	80627	79732	79314	79891	0.84	cps
Strontium	88-1	696377	696572	697194	696714	0.06	cps
Sulfur	34-1	776270	756753	749033	760686	1.85	cps
Terbium	159-1	21873285	21788643	21273626	21645185	1.50	cps
Terbium	159-2	6287415	5763645	6470174	6173744	5.94	cps
Thallium	203-1	1443	1283	1317	1348	6.26	cps
Thallium	205-1	3020	3254	2964	3079	4.99	cps
Tin	118-1	3480	3107	3057	3215	7.20	cps
Titanium	47-1	12329	16533	16015	14959	15.33	cps
Uranium	238-1	6892	7059	6855	6935	1.56	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:35:40	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	44529	45415	45412	45119	1.13	cps
Ytterbium	172-1	5855	5368	5715	5646	4.44	cps
Ytterbium	172-2	1980	2000	1997	1992	0.54	cps
Ytterbium	176-1	5418	5618	5274	5437	3.17	cps
Ytterbium	176-2	1563	1523	1567	1551	1.55	cps
Yttrium	89-1	28890959	28890585	27947100	28576214	1.91	cps
Yttrium	89-2	1760044	1580711	1812029	1717594	7.07	cps
Zinc	66-2	19667	19978	18989	19545	2.59	cps
Zirconium	90-1	7909	7052	8273	7745	8.10	cps
Zirconium	91-1	1477	1647	1714	1612	7.57	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	394539	399122	400812	398158	0.82	cps
Antimony	121-1	2364	2347	2337	2349	0.57	cps
Arsenic	75-2	4127	4264	3967	4120	3.61	cps
Barium	135-1	261469	260329	260701	260833	0.22	cps
Barium	137-1	451253	452919	453575	452582	0.26	cps
Beryllium	9-1	1910	1785	1816	1837	3.54	cps
Bismuth	209-1	13976918	13761008	13669871	13802599	1.14	cps
Bismuth	209-2	5035629	4999301	4814980	4949970	2.39	cps
Bromine	81-1	10190	9917	9630	9912	2.83	cps
Cadmium	108-1	73	53	67	64	15.80	cps
Cadmium	106-1	8406	8469	8663	8513	1.57	cps
Cadmium	111-1	6093	6121	6307	6174	1.89	cps
Calcium	43-1	83976	84640	83675	84097	0.59	cps
Calcium	44-1	1424936	1466966	1411174	1434359	2.03	cps
Carbon	12-1	3623350	3648599	3554004	3608651	1.36	cps
Carbon	12-2	23439	23636	23672	23582	0.53	cps
Chlorine	35-1	45358834	48994671	49941608	48098371	5.03	cps
Chlorine	35-2	194606	194228	196559	195131	0.64	cps
Chromium	52-2	48602	48930	48452	48661	0.50	cps
Cobalt	59-2	51048	51429	51322	51266	0.38	cps
Copper	63-2	137602	137942	137946	137830	0.14	cps
Dysprosium	156-1	20025	19641	19918	19862	1.00	cps
Dysprosium	156-2	6622	6622	6625	6623	0.03	cps
Erbium	164-1	19090	18700	18757	18849	1.12	cps
Erbium	164-2	6035	5688	5668	5797	3.56	cps
Gadolinium	160-1	20526	20756	20669	20651	0.56	cps
Gadolinium	160-2	7492	7922	7772	7729	2.83	cps
Holmium	165-1	21964920	21607424	21604339	21725561	0.95	cps
Holmium	165-2	6807637	6715741	6489741	6671040	2.45	cps
Indium	115-1	17547066	17010786	16858082	17138645	2.11	cps
Indium	115-2	1436699	1428601	1380214	1415171	2.16	cps
Iron	54-2	2402154	2371806	2353217	2375726	1.04	cps
Iron	56-2	42985084	42512439	42661534	42719686	0.57	cps
Iron	57-2	1044522	1056428	1060472	1053807	0.79	cps
Krypton	83-1	253	350	290	298	16.39	cps
Lead	206-1	97873	96943	98743	97853	0.92	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	79230	79327	79579	79379	0.23	cps
Lead	208-1	372206	371999	375374	373193	0.51	cps
Lithium	6-1	7998777	7854681	7918074	7923844	0.91	cps
Magnesium	24-2	692091	694592	699443	695375	0.54	cps
Manganese	55-2	175459	176210	175477	175715	0.24	cps
Molybdenum	94-1	3494	3577	3494	3522	1.37	cps
Molybdenum	95-1	1953	1963	1930	1949	0.88	cps
Molybdenum	96-1	4233	2650	2674	3186	28.47	cps
Molybdenum	97-1	1217	1170	1277	1221	4.38	cps
Molybdenum	98-1	2944	3284	2984	3070	6.05	cps
Neodymium	150-1	21137	21077	21210	21141	0.32	cps
Neodymium	150-2	4601	4381	4574	4519	2.66	cps
Nickel	60-2	37175	36684	37971	37277	1.74	cps
Phosphorus	31-2	527	633	627	596	10.03	cps
Potassium	39-2	31264	31494	32050	31603	1.28	cps
Rhodium	103-1	15952254	15704533	15706497	15787762	0.90	cps
Rhodium	103-2	5750914	5692490	5401751	5615052	3.33	cps
Scandium	45-1	11468688	11401294	11414894	11428292	0.31	cps
Scandium	45-2	200489	197519	188192	195400	3.28	cps
Selenium	82-1	153	0	140	98	86.87	cps
Selenium	77-2	37	20	17	24	43.83	cps
Selenium	78-2	33	23	43	33	30.00	cps
Silicon	28-1	33876204	31873827	31496015	32415348	3.95	cps
Silver	107-1	1863	1917	2150	1977	7.71	cps
Silver	109-1	1750	1743	1727	1740	0.69	cps
Sodium	23-2	73926	73611	74254	73930	0.44	cps
Strontium	86-1	76280	77791	77835	77302	1.15	cps
Strontium	88-1	673699	683407	675406	677504	0.76	cps
Sulfur	34-1	745852	744975	739757	743528	0.44	cps
Terbium	159-1	22477586	21752451	21711200	21980412	1.96	cps
Terbium	159-2	6504189	6473149	6241538	6406292	2.24	cps
Thallium	203-1	1113	1147	1240	1167	5.63	cps
Thallium	205-1	2660	2687	2884	2744	4.45	cps
Tin	118-1	3170	2974	2937	3027	4.15	cps
Titanium	47-1	10564	15330	11098	12331	21.17	cps
Uranium	238-1	6455	6945	18343	10581	63.57	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-02DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9D	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:38:57	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	45238	45332	45820	45463	0.69	cps
Ytterbium	172-1	5445	5495	5528	5489	0.76	cps
Ytterbium	172-2	2077	2180	1950	2069	5.57	cps
Ytterbium	176-1	5338	5431	5274	5348	1.47	cps
Ytterbium	176-2	1537	1490	1477	1501	2.10	cps
Yttrium	89-1	29887880	29202368	29353155	29481134	1.22	cps
Yttrium	89-2	1823742	1816380	1739654	1793258	2.60	cps
Zinc	66-2	19751	19540	19564	19618	0.59	cps
Zirconium	90-1	17892	6815	7260	10656	58.85	cps
Zirconium	91-1	1707	1507	1393	1536	10.33	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	79372	79797	79312	79494	0.33	cps
Antimony	121-1	560	530	570	553	3.76	cps
Arsenic	75-2	870	900	910	893	2.33	cps
Barium	135-1	51307	52612	51932	51950	1.26	cps
Barium	137-1	91732	89977	89151	90287	1.46	cps
Beryllium	9-1	669	696	627	664	5.21	cps
Bismuth	209-1	13593550	13690941	13583113	13622535	0.44	cps
Bismuth	209-2	5115381	5093541	5117037	5108653	0.26	cps
Bromine	81-1	6665	7095	6472	6744	4.73	cps
Cadmium	108-1	30	33	37	33	10.01	cps
Cadmium	106-1	8309	8042	8219	8190	1.66	cps
Cadmium	111-1	5855	5673	5764	5764	1.58	cps
Calcium	43-1	17381	17327	17568	17425	0.72	cps
Calcium	44-1	299052	301504	300249	300268	0.41	cps
Carbon	12-1	3287613	3269004	3232258	3262959	0.86	cps
Carbon	12-2	20928	20721	21332	20994	1.48	cps
Chlorine	35-1	11481970	12038564	12089150	11869895	2.84	cps
Chlorine	35-2	46060	44920	45063	45348	1.37	cps
Chromium	52-2	10421	10544	10624	10530	0.97	cps
Cobalt	59-2	10167	10004	10327	10166	1.59	cps
Copper	63-2	29758	29397	30019	29725	1.05	cps
Dysprosium	156-1	3944	4084	3884	3971	2.59	cps
Dysprosium	156-2	1390	1250	1307	1316	5.35	cps
Erbium	164-1	3687	3834	3671	3731	2.41	cps
Erbium	164-2	1130	1053	1197	1127	6.37	cps
Gadolinium	160-1	4197	4291	4344	4277	1.74	cps
Gadolinium	160-2	1690	1693	1640	1675	1.78	cps
Holmium	165-1	21417206	21035082	21238486	21230258	0.90	cps
Holmium	165-2	6768829	6681310	6783680	6744606	0.82	cps
Indium	115-1	17108891	16553209	17235246	16965782	2.14	cps
Indium	115-2	1434679	1433619	1432150	1433483	0.09	cps
Iron	54-2	467067	461735	467522	465441	0.69	cps
Iron	56-2	8680549	8612885	8612136	8635190	0.45	cps
Iron	57-2	212648	213565	210980	212398	0.62	cps
Krypton	83-1	367	290	287	314	14.39	cps
Lead	206-1	20864	21414	21040	21106	1.33	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17285	17222	17238	17248	0.19	cps
Lead	208-1	81257	81660	81674	81531	0.29	cps
Lithium	6-1	7911939	7881317	7897384	7896880	0.19	cps
Magnesium	24-2	142192	141970	141337	141833	0.31	cps
Manganese	55-2	34993	35514	35491	35333	0.83	cps
Molybdenum	94-1	1230	987	907	1041	16.18	cps
Molybdenum	95-1	560	530	540	543	2.81	cps
Molybdenum	96-1	753	770	750	758	1.41	cps
Molybdenum	97-1	283	297	323	301	6.76	cps
Molybdenum	98-1	780	840	763	794	5.08	cps
Neodymium	150-1	4254	4431	4301	4329	2.12	cps
Neodymium	150-2	990	930	970	963	3.17	cps
Nickel	60-2	8346	8119	8189	8218	1.41	cps
Phosphorus	31-2	223	160	167	183	18.98	cps
Potassium	39-2	14504	14751	14694	14650	0.88	cps
Rhodium	103-1	15639084	15929314	15735520	15767973	0.94	cps
Rhodium	103-2	5670506	5713143	5587403	5657017	1.13	cps
Scandium	45-1	11233172	11072895	11252287	11186118	0.88	cps
Scandium	45-2	196443	200153	196953	197850	1.02	cps
Selenium	82-1	-63	17	-23	-23	-171.40	cps
Selenium	77-2	7	7	0	4	86.60	cps
Selenium	78-2	13	3	7	8	65.47	cps
Silicon	28-1	6725510	6715857	6789004	6743457	0.59	cps
Silver	107-1	617	577	503	566	10.16	cps
Silver	109-1	370	380	427	392	7.71	cps
Sodium	23-2	64371	64177	63635	64061	0.60	cps
Strontium	86-1	15892	15796	16186	15958	1.27	cps
Strontium	88-1	138943	138058	136022	137674	1.09	cps
Sulfur	34-1	746827	741995	739402	742741	0.51	cps
Terbium	159-1	21443601	21492268	21838417	21591429	1.00	cps
Terbium	159-2	6421779	6436396	6451816	6436663	0.23	cps
Thallium	203-1	640	533	557	577	9.72	cps
Thallium	205-1	1467	1347	1470	1428	4.92	cps
Tin	118-1	2387	2537	2520	2481	3.31	cps
Titanium	47-1	2467	4286	2717	3157	31.24	cps
Uranium	238-1	1437	1333	1443	1405	4.39	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-01LDL2X20	Instrumnet Name :	P8
Client Sample ID :	YE8C9L	Dilution Factor :	20
Date & Time Acquired :	2025-02-11 14:42:16	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9043	9043	8719	8935	2.09	cps
Ytterbium	172-1	1327	1270	1187	1261	5.58	cps
Ytterbium	172-2	483	453	430	456	5.87	cps
Ytterbium	176-1	2827	2594	2620	2680	4.77	cps
Ytterbium	176-2	550	647	547	581	9.77	cps
Yttrium	89-1	28941980	29236530	28515229	28897913	1.25	cps
Yttrium	89-2	1836518	1805555	1814570	1818881	0.88	cps
Zinc	66-2	4134	4307	4351	4264	2.69	cps
Zirconium	90-1	2017	2187	2397	2200	8.66	cps
Zirconium	91-1	500	400	527	476	14.04	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	399248	399250	396295	398264	0.43	cps
Antimony	121-1	92121	93198	93175	92831	0.66	cps
Arsenic	75-2	5088	4928	5171	5062	2.44	cps
Barium	135-1	659197	676656	676357	670737	1.49	cps
Barium	137-1	1174499	1174928	1157640	1169022	0.84	cps
Beryllium	9-1	16233	16352	16084	16223	0.83	cps
Bismuth	209-1	13477260	13373927	13372090	13407759	0.45	cps
Bismuth	209-2	5096951	5003598	5068133	5056227	0.95	cps
Bromine	81-1	6555	6855	7045	6818	3.62	cps
Cadmium	108-1	903	987	893	928	5.52	cps
Cadmium	106-1	9507	9423	9403	9444	0.58	cps
Cadmium	111-1	17424	17270	16768	17154	2.00	cps
Calcium	43-1	95642	97037	96659	96446	0.75	cps
Calcium	44-1	1535606	1590562	1540406	1555525	1.96	cps
Carbon	12-1	3540591	3481082	3491315	3504329	0.91	cps
Carbon	12-2	23112	23051	22975	23046	0.30	cps
Chlorine	35-1	44460349	49241239	50759261	48153617	6.83	cps
Chlorine	35-2	196621	198561	198729	197970	0.59	cps
Chromium	52-2	83026	83888	83120	83344	0.57	cps
Cobalt	59-2	217191	217202	217936	217443	0.20	cps
Copper	63-2	200739	200907	200566	200737	0.08	cps
Dysprosium	156-1	19247	19130	19688	19355	1.52	cps
Dysprosium	156-2	6578	6588	6482	6549	0.90	cps
Erbium	164-1	18590	18894	18506	18663	1.09	cps
Erbium	164-2	5525	5454	5765	5581	2.91	cps
Gadolinium	160-1	20139	20252	21170	20520	2.76	cps
Gadolinium	160-2	7956	7846	7609	7803	2.27	cps
Holmium	165-1	21701512	20860310	21360731	21307518	1.99	cps
Holmium	165-2	6756859	6825851	6768275	6783661	0.55	cps
Indium	115-1	16735828	17117051	16559487	16804122	1.70	cps
Indium	115-2	1429242	1413529	1430059	1424277	0.65	cps
Iron	54-2	2381679	2362409	2347861	2363983	0.72	cps
Iron	56-2	42338631	43151463	42247184	42579092	1.17	cps
Iron	57-2	1040689	1043374	1039757	1041273	0.18	cps
Krypton	83-1	347	330	297	324	7.85	cps
Lead	206-1	110022	110960	109188	110057	0.81	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	89644	89000	89278	89307	0.36	cps
Lead	208-1	420428	421848	420576	420951	0.19	cps
Lithium	6-1	7922571	8074597	7956145	7984438	1.00	cps
Magnesium	24-2	688272	692805	689107	690061	0.35	cps
Manganese	55-2	206758	209365	206042	207388	0.84	cps
Molybdenum	94-1	135428	135132	137084	135881	0.77	cps
Molybdenum	95-1	232443	232211	236468	233707	1.02	cps
Molybdenum	96-1	250356	254301	250412	251690	0.90	cps
Molybdenum	97-1	146739	145739	146571	146350	0.37	cps
Molybdenum	98-1	376165	377509	379402	377692	0.43	cps
Neodymium	150-1	20796	20703	20890	20796	0.45	cps
Neodymium	150-2	4711	4361	4611	4561	3.95	cps
Nickel	60-2	83915	83784	84529	84076	0.47	cps
Phosphorus	31-2	583	590	530	568	5.79	cps
Potassium	39-2	31194	31321	31070	31195	0.40	cps
Rhodium	103-1	15686615	15630359	15672034	15663003	0.19	cps
Rhodium	103-2	5594299	5609929	5605256	5603161	0.14	cps
Scandium	45-1	11281676	11276946	11266322	11274981	0.07	cps
Scandium	45-2	200150	197529	197000	198227	0.85	cps
Selenium	82-1	227	293	250	257	13.18	cps
Selenium	77-2	33	33	30	32	5.97	cps
Selenium	78-2	63	20	40	41	52.75	cps
Silicon	28-1	31644432	31431149	31150558	31408713	0.79	cps
Silver	107-1	54423	54939	55588	54983	1.06	cps
Silver	109-1	51429	52232	52643	52101	1.19	cps
Sodium	23-2	72385	72522	72060	72322	0.33	cps
Strontium	86-1	2974241	2975719	2979157	2976373	0.08	cps
Strontium	88-1	25694321	25378242	25536191	25536252	0.62	cps
Sulfur	34-1	743850	737159	729548	736852	0.97	cps
Terbium	159-1	21567101	21622441	21530871	21573471	0.21	cps
Terbium	159-2	6449663	6378566	6517109	6448446	1.07	cps
Thallium	203-1	44031	44138	43523	43897	0.75	cps
Thallium	205-1	106039	106265	106462	106255	0.20	cps
Tin	118-1	3044	3007	2864	2971	3.20	cps
Titanium	47-1	13076	11844	11086	12002	8.37	cps
Uranium	238-1	6745	6635	6762	6714	1.03	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1159-03DL2X4	Instrumnet Name :	P8
Client Sample ID :	YE8C9S	Dilution Factor :	4
Date & Time Acquired :	2025-02-11 14:45:35	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	110324	110925	111483	110911	0.52	cps
Ytterbium	172-1	5224	5354	5471	5350	2.31	cps
Ytterbium	172-2	2077	1927	2067	2024	4.15	cps
Ytterbium	176-1	5351	5224	5411	5329	1.79	cps
Ytterbium	176-2	1523	1577	1647	1582	3.91	cps
Yttrium	89-1	29683754	29052123	29216939	29317605	1.12	cps
Yttrium	89-2	1874750	1807609	1803031	1828463	2.20	cps
Zinc	66-2	33105	33075	32962	33047	0.23	cps
Zirconium	90-1	9641	7263	6405	7769	21.58	cps
Zirconium	91-1	2452	1657	1543	1884	26.28	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3166656	3219302	3114011	3166656	1.66	cps
Antimony	121-1	8221670	8147852	8174881	8181468	0.46	cps
Arsenic	75-2	145397	144569	145717	145228	0.41	cps
Barium	135-1	9937428	9940063	9997160	9958217	0.34	cps
Barium	137-1	17203885	17037235	17326678	17189266	0.85	cps
Beryllium	9-1	2654376	2638062	2629882	2640773	0.47	cps
Bismuth	209-1	11681266	11866256	11665631	11737718	0.95	cps
Bismuth	209-2	4363116	4439537	4297792	4366815	1.62	cps
Bromine	81-1	4537	4661	4708	4635	1.90	cps
Cadmium	108-1	159518	159413	159338	159423	0.06	cps
Cadmium	106-1	229326	230084	231381	230264	0.45	cps
Cadmium	111-1	1998080	1980420	1949594	1976031	1.24	cps
Calcium	43-1	13159966	13127658	13087303	13124976	0.28	cps
Calcium	44-1	213926557	212261650	213758237	213315481	0.43	cps
Carbon	12-1	4181315	4287135	4447376	4305276	3.11	cps
Carbon	12-2	35727	36181	35927	35945	0.63	cps
Chlorine	35-1	2206331	2077000	2001406	2094912	4.95	cps
Chlorine	35-2	6278	6281	6098	6219	1.69	cps
Chromium	52-2	1653403	1686750	1646399	1662184	1.30	cps
Cobalt	59-2	3036918	3110755	3045672	3064448	1.32	cps
Copper	63-2	22715015	22991670	23074881	22927189	0.82	cps
Dysprosium	156-1	483	447	587	506	14.36	cps
Dysprosium	156-2	73	103	113	97	21.54	cps
Erbium	164-1	437	477	523	479	9.06	cps
Erbium	164-2	163	140	113	139	18.01	cps
Gadolinium	160-1	373	367	467	402	13.90	cps
Gadolinium	160-2	103	97	133	111	17.58	cps
Holmium	165-1	20402021	20415796	19953943	20257253	1.30	cps
Holmium	165-2	6456381	6399193	6303048	6386208	1.21	cps
Indium	115-1	15336206	14961998	14961161	15086455	1.43	cps
Indium	115-2	1272665	1272647	1264877	1270063	0.35	cps
Iron	54-2	16711327	16511395	16316438	16513053	1.20	cps
Iron	56-2	300885262	298991562	301480322	300452382	0.43	cps
Iron	57-2	7455539	7512635	7623014	7530396	1.13	cps
Krypton	83-1	390	310	330	343	12.13	cps
Lead	206-1	32241649	32935878	32613916	32597148	1.07	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27558165	28544111	28066145	28056141	1.76	cps
Lead	208-1	127315260	130303960	130067121	129228780	1.29	cps
Lithium	6-1	7198645	7053892	6949829	7067455	1.77	cps
Magnesium	24-2	57109904	57753171	56791991	57218355	0.86	cps
Manganese	55-2	6525140	6456763	6498567	6493490	0.53	cps
Molybdenum	94-1	28787649	28763611	28791932	28781064	0.05	cps
Molybdenum	95-1	41298139	42046620	42165827	41836862	1.12	cps
Molybdenum	96-1	46244529	45528104	45893288	45888640	0.78	cps
Molybdenum	97-1	26031702	25624298	26106169	25920723	1.00	cps
Molybdenum	98-1	67525102	67129362	67958714	67537726	0.61	cps
Neodymium	150-1	767	727	793	762	4.40	cps
Neodymium	150-2	57	77	50	61	22.71	cps
Nickel	60-2	795131	798610	800029	797923	0.32	cps
Phosphorus	31-2	29627	29614	28895	29379	1.42	cps
Potassium	39-2	15470017	15285944	15112951	15289637	1.17	cps
Rhodium	103-1	13755072	13393762	13307405	13485413	1.76	cps
Rhodium	103-2	4992220	4898282	4830914	4907139	1.65	cps
Scandium	45-1	10743417	10510735	10438920	10564357	1.51	cps
Scandium	45-2	188139	186078	184643	186286	0.94	cps
Selenium	82-1	119786	117190	119178	118718	1.14	cps
Selenium	77-2	1777	1817	1827	1807	1.46	cps
Selenium	78-2	6185	6241	5831	6086	3.65	cps
Silicon	28-1	6932328	6887328	6952648	6924101	0.48	cps
Silver	107-1	9740600	9861581	9825098	9809093	0.63	cps
Silver	109-1	9345849	9303077	9392373	9347100	0.48	cps
Sodium	23-2	113351995	113559018	114219115	113710043	0.40	cps
Strontium	86-1	2699948	2680982	2684403	2688445	0.38	cps
Strontium	88-1	23195249	23215707	23366180	23259045	0.40	cps
Sulfur	34-1	1461045	1420926	1417068	1433013	1.70	cps
Terbium	159-1	20524883	20552897	20215143	20430974	0.92	cps
Terbium	159-2	6089691	6109674	6000073	6066479	0.96	cps
Thallium	203-1	7965201	8030308	8043287	8012932	0.52	cps
Thallium	205-1	18796496	19019243	19088752	18968163	0.80	cps
Tin	118-1	6496653	6479065	6621326	6532348	1.19	cps
Titanium	47-1	12430604	12281259	12330399	12347421	0.62	cps
Uranium	238-1	25741353	26063259	26611831	26138814	1.68	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV022	Instrumnet Name :	P8
Client Sample ID :	CCV022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:50:23	DataFile Name :	033CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1259175	1254168	1250385	1254576	0.35	cps
Ytterbium	172-1	497	567	473	512	9.48	cps
Ytterbium	172-2	143	200	200	181	18.06	cps
Ytterbium	176-1	41552	40696	41284	41177	1.06	cps
Ytterbium	176-2	12483	12583	12389	12485	0.78	cps
Yttrium	89-1	26981940	26683772	26824623	26830112	0.56	cps
Yttrium	89-2	1735726	1712686	1680361	1709591	1.63	cps
Zinc	66-2	2484632	2468297	2485788	2479572	0.39	cps
Zirconium	90-1	14458267	14582043	14669493	14569934	0.73	cps
Zirconium	91-1	3226371	3328566	3327612	3294183	1.78	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	133	143	153	143	6.98	cps
Antimony	121-1	1943	1767	1633	1781	8.73	cps
Arsenic	75-2	7	7	13	9	43.25	cps
Barium	135-1	513	437	380	443	15.09	cps
Barium	137-1	987	750	740	826	16.91	cps
Beryllium	9-1	969	892	879	913	5.31	cps
Bismuth	209-1	13465650	13521157	13574240	13520349	0.40	cps
Bismuth	209-2	4917479	5017297	4941901	4958892	1.05	cps
Bromine	81-1	4254	4204	4354	4271	1.79	cps
Cadmium	108-1	43	30	60	44	33.82	cps
Cadmium	106-1	7542	8176	7649	7789	4.36	cps
Cadmium	111-1	5339	5832	5449	5540	4.67	cps
Calcium	43-1	690	680	630	667	4.82	cps
Calcium	44-1	32173	29754	29347	30425	5.02	cps
Carbon	12-1	3727055	3700262	3695860	3707726	0.46	cps
Carbon	12-2	23923	23452	23896	23757	1.11	cps
Chlorine	35-1	1188619	1153433	1080475	1140842	4.84	cps
Chlorine	35-2	3697	3807	3524	3676	3.89	cps
Chromium	52-2	700	873	820	798	11.13	cps
Cobalt	59-2	160	163	213	179	16.70	cps
Copper	63-2	3194	3360	3350	3302	2.83	cps
Dysprosium	156-1	30	57	37	41	33.76	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	90	100	103	98	7.10	cps
Erbium	164-2	30	20	23	24	20.83	cps
Gadolinium	160-1	103	137	83	108	25.00	cps
Gadolinium	160-2	27	17	23	22	22.91	cps
Holmium	165-1	20753346	20800179	21049186	20867570	0.76	cps
Holmium	165-2	6634503	6665388	6623623	6641171	0.33	cps
Indium	115-1	16616756	16574874	16616445	16602692	0.15	cps
Indium	115-2	1420781	1423616	1401077	1415158	0.87	cps
Iron	54-2	733	733	710	726	1.86	cps
Iron	56-2	11481	11765	10931	11392	3.72	cps
Iron	57-2	260	287	297	281	6.74	cps
Krypton	83-1	240	267	240	249	6.19	cps
Lead	206-1	4087	3817	3957	3954	3.42	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3507	3214	3220	3314	5.06	cps
Lead	208-1	16334	15170	14587	15364	5.79	cps
Lithium	6-1	7785162	7739798	7829087	7784682	0.57	cps
Magnesium	24-2	2530	2387	2567	2495	3.81	cps
Manganese	55-2	300	303	330	311	5.29	cps
Molybdenum	94-1	1437	1037	1057	1177	19.16	cps
Molybdenum	95-1	1643	1110	1237	1330	20.95	cps
Molybdenum	96-1	1850	1487	1217	1518	20.94	cps
Molybdenum	97-1	953	790	643	796	19.49	cps
Molybdenum	98-1	2707	2064	1657	2142	24.72	cps
Neodymium	150-1	17	20	20	19	10.18	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	1260	1307	1447	1338	7.26	cps
Phosphorus	31-2	80	77	90	82	8.44	cps
Potassium	39-2	11134	11365	10931	11143	1.95	cps
Rhodium	103-1	15716142	15441275	15807817	15655078	1.22	cps
Rhodium	103-2	5591971	5701259	5524253	5605828	1.59	cps
Scandium	45-1	11047170	10958330	10971621	10992374	0.44	cps
Scandium	45-2	194278	195551	193100	194309	0.63	cps
Selenium	82-1	30	-17	77	30	155.53	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	0	10	23	11	105.35	cps
Silicon	28-1	546624	539718	540953	542432	0.68	cps
Silver	107-1	1023	937	753	904	15.24	cps
Silver	109-1	987	873	670	843	19.03	cps
Sodium	23-2	69310	69746	68335	69130	1.04	cps
Strontium	86-1	650	627	623	633	2.29	cps
Strontium	88-1	1967	1793	1817	1859	5.06	cps
Sulfur	34-1	728143	723170	724050	725121	0.37	cps
Terbium	159-1	21242294	21554426	21619358	21472026	0.94	cps
Terbium	159-2	6363219	6345993	6358420	6355877	0.14	cps
Thallium	203-1	1050	953	960	988	5.47	cps
Thallium	205-1	2427	2264	2064	2251	8.08	cps
Tin	118-1	3387	3470	3524	3460	1.99	cps
Titanium	47-1	883	837	800	840	4.97	cps
Uranium	238-1	827	517	430	591	35.28	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB022	Instrumnet Name :	P8
Client Sample ID :	CCB022	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 14:53:49	DataFile Name :	034CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	30	20	21	39.75	cps
Ytterbium	172-1	93	83	123	100	20.82	cps
Ytterbium	172-2	60	37	47	48	24.50	cps
Ytterbium	176-1	1910	1954	1923	1929	1.15	cps
Ytterbium	176-2	280	237	297	271	11.42	cps
Yttrium	89-1	28370380	28226698	28540556	28379211	0.55	cps
Yttrium	89-2	1811326	1814681	1779172	1801726	1.09	cps
Zinc	66-2	330	273	287	297	9.99	cps
Zirconium	90-1	1393	1420	1223	1346	7.93	cps
Zirconium	91-1	300	343	197	280	26.91	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	817	817	930	854	7.66	cps
Antimony	121-1	1787	1593	1593	1658	6.73	cps
Arsenic	75-2	673	667	830	723	12.78	cps
Barium	135-1	457768	457730	456037	457178	0.22	cps
Barium	137-1	798468	795745	805519	799911	0.63	cps
Beryllium	9-1	317	376	356	350	8.54	cps
Bismuth	209-1	13306909	13135659	13296355	13246308	0.72	cps
Bismuth	209-2	4942374	4896388	4843147	4893970	1.01	cps
Bromine	81-1	42882	43972	45316	44057	2.77	cps
Cadmium	108-1	77	70	83	77	8.69	cps
Cadmium	106-1	8109	8323	8106	8179	1.52	cps
Cadmium	111-1	5723	5863	5712	5766	1.46	cps
Calcium	43-1	9881289	9871050	9808891	9853744	0.40	cps
Calcium	44-1	157451244	155983401	153692734	155709127	1.22	cps
Carbon	12-1	7527215	8197013	8595340	8106523	6.66	cps
Carbon	12-2	60320	61468	60909	60899	0.94	cps
Chlorine	35-1	1366589	1478225	1524353	1456389	5.57	cps
Chlorine	35-2	5921	5881	5755	5852	1.49	cps
Chromium	52-2	2797	2964	2924	2895	3.01	cps
Cobalt	59-2	1650	1697	1790	1712	4.16	cps
Copper	63-2	4337	4251	4244	4277	1.22	cps
Dysprosium	156-1	93	103	153	117	27.56	cps
Dysprosium	156-2	20	10	17	16	32.73	cps
Erbium	164-1	253	227	177	219	17.78	cps
Erbium	164-2	60	53	63	59	8.65	cps
Gadolinium	160-1	177	150	150	159	9.69	cps
Gadolinium	160-2	27	73	50	50	46.66	cps
Holmium	165-1	21719200	21408482	21456804	21528162	0.78	cps
Holmium	165-2	6664242	6763306	6707540	6711696	0.74	cps
Indium	115-1	16639481	16594905	16729735	16654707	0.41	cps
Indium	115-2	1407454	1408010	1409441	1408302	0.07	cps
Iron	54-2	94973	94815	96772	95520	1.14	cps
Iron	56-2	1767197	1773110	1804031	1781446	1.11	cps
Iron	57-2	43914	43245	43891	43683	0.87	cps
Krypton	83-1	353	310	293	319	9.71	cps
Lead	206-1	5158	4354	3941	4484	13.80	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4194	3914	3347	3818	11.30	cps
Lead	208-1	19960	17682	15697	17779	12.00	cps
Lithium	6-1	7670248	7784557	7800781	7751862	0.92	cps
Magnesium	24-2	10619203	10682683	10490064	10597316	0.93	cps
Manganese	55-2	69421	70048	69515	69661	0.49	cps
Molybdenum	94-1	31375	31479	31993	31616	1.05	cps
Molybdenum	95-1	52726	52562	52522	52604	0.21	cps
Molybdenum	96-1	55848	56708	56407	56321	0.77	cps
Molybdenum	97-1	32184	32435	33166	32595	1.57	cps
Molybdenum	98-1	85243	84914	85397	85185	0.29	cps
Neodymium	150-1	107	137	80	108	26.30	cps
Neodymium	150-2	13	30	13	19	50.96	cps
Nickel	60-2	4601	4551	4677	4610	1.38	cps
Phosphorus	31-2	283	237	263	261	8.97	cps
Potassium	39-2	575205	574139	574716	574687	0.09	cps
Rhodium	103-1	15262201	14976959	14871729	15036963	1.34	cps
Rhodium	103-2	5449971	5385421	5454609	5430000	0.71	cps
Scandium	45-1	11342039	11148725	11156978	11215914	0.97	cps
Scandium	45-2	199282	196757	198383	198140	0.65	cps
Selenium	82-1	2980	3134	3090	3068	2.58	cps
Selenium	77-2	37	73	43	51	38.21	cps
Selenium	78-2	203	157	180	180	12.96	cps
Silicon	28-1	102317822	102610462	102598875	102509053	0.16	cps
Silver	107-1	333	367	313	338	7.98	cps
Silver	109-1	90	77	97	88	11.60	cps
Sodium	23-2	6027761	6124251	6016584	6056199	0.98	cps
Strontium	86-1	97354285	96900235	96120352	96791624	0.64	cps
Strontium	88-1	834296628	848060414	834485108	838947383	0.94	cps
Sulfur	34-1	10835157	10724461	10818578	10792732	0.55	cps
Terbium	159-1	21832941	21816186	21795207	21814778	0.09	cps
Terbium	159-2	6468003	6422618	6465575	6452065	0.40	cps
Thallium	203-1	747	680	607	678	10.33	cps
Thallium	205-1	1880	1613	1373	1622	15.62	cps
Tin	118-1	3354	3187	3117	3219	3.78	cps
Titanium	47-1	2324	2490	2440	2418	3.54	cps
Uranium	238-1	91595	91823	89948	91122	1.12	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1204-01A	Instrumnet Name :	P8
Client Sample ID :	ME2975A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:21:55	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2194	2217	2214	2208	0.57	cps
Ytterbium	172-1	170	163	200	178	10.98	cps
Ytterbium	172-2	77	43	80	67	30.42	cps
Ytterbium	176-1	1910	1974	2197	2027	7.43	cps
Ytterbium	176-2	340	330	337	336	1.52	cps
Yttrium	89-1	28757690	28658760	29073078	28829843	0.75	cps
Yttrium	89-2	1811223	1803764	1808603	1807863	0.21	cps
Zinc	66-2	543	543	617	568	7.46	cps
Zirconium	90-1	4587	4694	4764	4682	1.90	cps
Zirconium	91-1	1023	1000	997	1007	1.44	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	89752	88738	89352	89281	0.57	cps
Antimony	121-1	1390	1407	1473	1423	3.10	cps
Arsenic	75-2	640	747	767	718	9.49	cps
Barium	135-1	91100	90151	88174	89808	1.66	cps
Barium	137-1	157026	157616	157394	157345	0.19	cps
Beryllium	9-1	749	756	755	753	0.53	cps
Bismuth	209-1	13067800	13246790	12932727	13082439	1.20	cps
Bismuth	209-2	5003716	4821859	4875316	4900297	1.91	cps
Bromine	81-1	27170	31465	33660	30765	10.73	cps
Cadmium	108-1	63	67	33	54	33.72	cps
Cadmium	106-1	8193	8126	8032	8117	0.99	cps
Cadmium	111-1	5977	5831	5939	5916	1.28	cps
Calcium	43-1	589386	597605	593480	593491	0.69	cps
Calcium	44-1	9560082	9793574	9601815	9651824	1.29	cps
Carbon	12-1	9502860	10330512	10787746	10207039	6.38	cps
Carbon	12-2	75496	75821	76936	76084	0.99	cps
Chlorine	35-1	3503565	3838863	4007124	3783184	6.78	cps
Chlorine	35-2	15558	15402	15899	15620	1.63	cps
Chromium	52-2	10644	10330	10424	10466	1.54	cps
Cobalt	59-2	5321	5351	5344	5339	0.30	cps
Copper	63-2	12082	12279	12175	12179	0.81	cps
Dysprosium	156-1	2460	2497	2597	2518	2.81	cps
Dysprosium	156-2	727	687	607	673	9.07	cps
Erbium	164-1	2184	1977	2027	2062	5.23	cps
Erbium	164-2	557	647	607	603	7.47	cps
Gadolinium	160-1	2290	2194	2164	2216	2.99	cps
Gadolinium	160-2	777	803	790	790	1.69	cps
Holmium	165-1	21213489	21080776	21133781	21142682	0.32	cps
Holmium	165-2	6767480	6614351	6578848	6653560	1.51	cps
Indium	115-1	16336367	16335653	16386195	16352738	0.18	cps
Indium	115-2	1409299	1388115	1382682	1393365	1.01	cps
Iron	54-2	298495	295921	296496	296971	0.45	cps
Iron	56-2	5583929	5587928	5553865	5575240	0.33	cps
Iron	57-2	136071	136708	134746	135842	0.74	cps
Krypton	83-1	323	283	300	302	6.65	cps
Lead	206-1	71858	71164	71271	71431	0.52	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	58799	58963	59191	58985	0.33	cps
Lead	208-1	276927	276532	275833	276431	0.20	cps
Lithium	6-1	7661985	7587532	7754165	7667894	1.09	cps
Magnesium	24-2	611128	607763	609489	609460	0.28	cps
Manganese	55-2	541597	544008	538669	541425	0.49	cps
Molybdenum	94-1	2160	2090	1967	2072	4.72	cps
Molybdenum	95-1	1717	1700	1793	1737	2.87	cps
Molybdenum	96-1	2127	2097	2074	2099	1.27	cps
Molybdenum	97-1	1143	1120	1123	1129	1.12	cps
Molybdenum	98-1	2690	2654	2730	2691	1.42	cps
Neodymium	150-1	3891	4034	3917	3947	1.93	cps
Neodymium	150-2	830	833	863	842	2.18	cps
Nickel	60-2	4724	4941	4854	4840	2.25	cps
Phosphorus	31-2	447	537	460	481	10.10	cps
Potassium	39-2	305285	306072	305887	305748	0.13	cps
Rhodium	103-1	15313522	15302347	14936466	15184112	1.41	cps
Rhodium	103-2	5520630	5503215	5445665	5489836	0.71	cps
Scandium	45-1	10899006	11116979	10877013	10964332	1.21	cps
Scandium	45-2	193330	191528	191178	192012	0.60	cps
Selenium	82-1	3267	3214	3110	3197	2.49	cps
Selenium	77-2	57	50	67	58	14.52	cps
Selenium	78-2	133	160	193	162	18.53	cps
Silicon	28-1	56462397	55056334	55724034	55747589	1.26	cps
Silver	107-1	400	387	423	403	4.60	cps
Silver	109-1	287	227	257	257	11.69	cps
Sodium	23-2	13052636	13101231	12982628	13045498	0.46	cps
Strontium	86-1	310522	313825	310482	311610	0.62	cps
Strontium	88-1	2838617	2816756	2809664	2821679	0.53	cps
Sulfur	34-1	1028017	1033103	1015895	1025672	0.86	cps
Terbium	159-1	21311342	21585051	21248785	21381726	0.84	cps
Terbium	159-2	6460156	6336412	6335609	6377392	1.12	cps
Thallium	203-1	870	973	863	902	6.84	cps
Thallium	205-1	2344	2274	2254	2290	2.06	cps
Tin	118-1	5815	6135	5765	5905	3.40	cps
Titanium	47-1	125719	128721	128173	127538	1.25	cps
Uranium	238-1	8013	8023	7923	7986	0.69	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1245-09A	Instrumnet Name :	P8
Client Sample ID :	A6335A	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:25:11	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	6515	7055	6768	6779	3.99	cps
Ytterbium	172-1	693	660	717	690	4.13	cps
Ytterbium	172-2	263	270	270	268	1.44	cps
Ytterbium	176-1	2360	2427	2530	2439	3.51	cps
Ytterbium	176-2	393	447	423	421	6.35	cps
Yttrium	89-1	27858730	27725214	28056620	27880188	0.60	cps
Yttrium	89-2	1790053	1777826	1731553	1766477	1.75	cps
Zinc	66-2	6995	6942	6732	6890	2.02	cps
Zirconium	90-1	2830	3187	3204	3074	6.86	cps
Zirconium	91-1	657	700	663	673	3.47	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	80	83	87	83	4.00	cps
Antimony	121-1	70	103	137	103	32.26	cps
Arsenic	75-2	3	3	3	3	0.00	cps
Barium	135-1	223	220	210	218	3.19	cps
Barium	137-1	393	377	413	394	4.65	cps
Beryllium	9-1	356	372	387	372	4.20	cps
Bismuth	209-1	13656953	13456191	13570136	13561093	0.74	cps
Bismuth	209-2	4984044	5029301	5059972	5024439	0.76	cps
Bromine	81-1	8526	7926	7125	7859	8.94	cps
Cadmium	108-1	30	67	37	44	43.95	cps
Cadmium	106-1	8209	8206	8076	8164	0.93	cps
Cadmium	111-1	5772	5724	5651	5716	1.07	cps
Calcium	43-1	470	513	473	486	4.97	cps
Calcium	44-1	26731	26120	26328	26393	1.18	cps
Carbon	12-1	4305281	4175526	4074868	4185225	2.76	cps
Carbon	12-2	26243	25679	25836	25920	1.12	cps
Chlorine	35-1	621476	576851	537907	578745	7.23	cps
Chlorine	35-2	1760	1747	1793	1767	1.36	cps
Chromium	52-2	710	727	797	744	6.18	cps
Cobalt	59-2	130	110	90	110	18.18	cps
Copper	63-2	2700	2660	2810	2724	2.85	cps
Dysprosium	156-1	27	57	40	41	36.56	cps
Dysprosium	156-2	0	0	10	3	173.21	cps
Erbium	164-1	100	117	113	110	8.02	cps
Erbium	164-2	37	30	17	28	36.66	cps
Gadolinium	160-1	103	123	103	110	10.50	cps
Gadolinium	160-2	27	20	27	24	15.75	cps
Holmium	165-1	20764512	21317423	21107555	21063163	1.33	cps
Holmium	165-2	6751909	6573879	6771156	6698981	1.62	cps
Indium	115-1	16891392	16864432	16865915	16873913	0.09	cps
Indium	115-2	1420695	1409709	1434793	1421732	0.88	cps
Iron	54-2	570	510	473	518	9.43	cps
Iron	56-2	7275	7469	7309	7351	1.41	cps
Iron	57-2	160	183	210	184	13.56	cps
Krypton	83-1	293	263	313	290	8.68	cps
Lead	206-1	1787	1743	1787	1772	1.41	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1467	1427	1577	1490	5.21	cps
Lead	208-1	7231	6681	6984	6965	3.96	cps
Lithium	6-1	7894411	7775407	7863142	7844320	0.79	cps
Magnesium	24-2	2584	2564	2664	2604	2.03	cps
Manganese	55-2	163	213	197	191	13.32	cps
Molybdenum	94-1	447	413	427	429	3.91	cps
Molybdenum	95-1	190	153	200	181	13.56	cps
Molybdenum	96-1	273	263	203	247	15.35	cps
Molybdenum	97-1	130	133	130	131	1.47	cps
Molybdenum	98-1	307	313	310	310	1.08	cps
Neodymium	150-1	20	10	10	13	43.30	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1357	1460	1413	1410	3.67	cps
Phosphorus	31-2	93	63	83	80	19.09	cps
Potassium	39-2	10551	10254	10734	10513	2.31	cps
Rhodium	103-1	15487799	15665813	15583888	15579166	0.57	cps
Rhodium	103-2	5658359	5463623	5592514	5571499	1.78	cps
Scandium	45-1	11082271	11062005	11200555	11114944	0.67	cps
Scandium	45-2	193866	194041	196002	194636	0.61	cps
Selenium	82-1	-37	13	-10	-11	-225.12	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	13	13	13	13	0.00	cps
Silicon	28-1	539553	535253	533442	536083	0.59	cps
Silver	107-1	190	213	217	207	7.03	cps
Silver	109-1	47	43	40	43	7.70	cps
Sodium	23-2	62794	62624	63320	62912	0.58	cps
Strontium	86-1	1177	1070	917	1055	12.40	cps
Strontium	88-1	6355	5721	5264	5780	9.48	cps
Sulfur	34-1	770146	777146	780538	775943	0.68	cps
Terbium	159-1	21576675	21485359	21423872	21495302	0.36	cps
Terbium	159-2	6311904	6459827	6332616	6368116	1.26	cps
Thallium	203-1	387	403	373	388	3.88	cps
Thallium	205-1	877	850	837	854	2.38	cps
Tin	118-1	3247	3290	3120	3219	2.74	cps
Titanium	47-1	477	487	607	523	13.82	cps
Uranium	238-1	33	23	23	27	21.65	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BL	Instrumnet Name :	P8
Client Sample ID :	PBW636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:28:29	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	13	3	8	65.47	cps
Ytterbium	172-1	97	137	117	117	17.14	cps
Ytterbium	172-2	50	60	40	50	20.00	cps
Ytterbium	176-1	2047	1964	2034	2015	2.22	cps
Ytterbium	176-2	310	290	327	309	5.94	cps
Yttrium	89-1	28741080	28714615	28779876	28745190	0.11	cps
Yttrium	89-2	1770563	1765069	1780358	1771997	0.44	cps
Zinc	66-2	240	230	213	228	5.91	cps
Zirconium	90-1	990	980	917	962	4.13	cps
Zirconium	91-1	253	170	213	212	19.64	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2774	2867	2997	2879	3.90	cps
Antimony	121-1	72742	73942	74826	73837	1.42	cps
Arsenic	75-2	640	810	600	683	16.32	cps
Barium	135-1	85722	87228	87201	86717	0.99	cps
Barium	137-1	152778	151329	152977	152361	0.59	cps
Beryllium	9-1	12650	12691	12638	12660	0.22	cps
Bismuth	209-1	13720708	13366989	13272530	13453409	1.76	cps
Bismuth	209-2	4974326	4970601	5054788	4999905	0.95	cps
Bromine	81-1	5528	5408	5104	5347	4.08	cps
Cadmium	108-1	813	650	830	764	13.01	cps
Cadmium	106-1	9550	9673	9066	9430	3.40	cps
Cadmium	111-1	15252	15673	14995	15307	2.24	cps
Calcium	43-1	58559	59472	58686	58905	0.84	cps
Calcium	44-1	950924	959741	966532	959066	0.82	cps
Carbon	12-1	4103520	3972608	4009082	4028403	1.68	cps
Carbon	12-2	26494	26768	26324	26528	0.84	cps
Chlorine	35-1	1841989	1998528	2148881	1996466	7.69	cps
Chlorine	35-2	8302	8643	8419	8455	2.04	cps
Chromium	52-2	15195	14851	14734	14927	1.60	cps
Cobalt	59-2	13977	13787	14324	14029	1.94	cps
Copper	63-2	25997	26695	26565	26419	1.40	cps
Dysprosium	156-1	67	47	63	59	18.19	cps
Dysprosium	156-2	7	3	17	9	78.08	cps
Erbium	164-1	110	150	127	129	15.59	cps
Erbium	164-2	40	37	27	34	20.14	cps
Gadolinium	160-1	103	93	83	93	10.72	cps
Gadolinium	160-2	23	23	13	20	28.87	cps
Holmium	165-1	20839611	21127646	21008726	20991995	0.69	cps
Holmium	165-2	6620243	6597486	6671963	6629897	0.58	cps
Indium	115-1	16778490	16880596	16766539	16808541	0.37	cps
Indium	115-2	1410780	1409834	1424285	1414966	0.57	cps
Iron	54-2	60360	59600	59982	59981	0.63	cps
Iron	56-2	1093060	1085772	1086939	1088591	0.36	cps
Iron	57-2	28104	26859	27326	27430	2.29	cps
Krypton	83-1	200	263	270	244	15.81	cps
Lead	206-1	31241	31655	32009	31635	1.22	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	27015	27296	27282	27197	0.58	cps
Lead	208-1	125081	124918	125342	125114	0.17	cps
Lithium	6-1	7809743	7991369	7756084	7852399	1.57	cps
Magnesium	24-2	246130	242997	245014	244714	0.65	cps
Manganese	55-2	2990	3010	3087	3029	1.69	cps
Molybdenum	94-1	72404	73426	72765	72865	0.71	cps
Molybdenum	95-1	88811	90093	92223	90376	1.91	cps
Molybdenum	96-1	99859	100252	100570	100227	0.36	cps
Molybdenum	97-1	55333	56538	55768	55880	1.09	cps
Molybdenum	98-1	142766	145527	144368	144221	0.96	cps
Neodymium	150-1	20	17	20	19	10.18	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	5291	5354	5194	5280	1.53	cps
Phosphorus	31-2	220	190	217	209	7.87	cps
Potassium	39-2	143071	141879	143081	142677	0.48	cps
Rhodium	103-1	15508845	15473896	15449444	15477395	0.19	cps
Rhodium	103-2	5598710	5561604	5592969	5584427	0.36	cps
Scandium	45-1	11086706	10837435	11262757	11062299	1.93	cps
Scandium	45-2	193224	193456	193673	193451	0.12	cps
Selenium	82-1	2897	2774	2834	2835	2.18	cps
Selenium	77-2	37	30	47	38	22.21	cps
Selenium	78-2	97	127	120	114	13.76	cps
Silicon	28-1	849986	853440	848533	850653	0.30	cps
Silver	107-1	44174	45545	46551	45423	2.63	cps
Silver	109-1	43031	43094	43442	43189	0.51	cps
Sodium	23-2	561951	557895	556366	558737	0.52	cps
Strontium	86-1	12362	12469	12622	12485	1.05	cps
Strontium	88-1	104920	103949	103721	104197	0.61	cps
Sulfur	34-1	796079	798713	795871	796888	0.20	cps
Terbium	159-1	21854481	21506139	21165231	21508617	1.60	cps
Terbium	159-2	6410319	6329988	6381614	6373974	0.64	cps
Thallium	203-1	36966	36962	36428	36785	0.84	cps
Thallium	205-1	87650	87002	88402	87685	0.80	cps
Tin	118-1	150189	150105	151335	150543	0.46	cps
Titanium	47-1	7055	7122	7142	7106	0.64	cps
Uranium	238-1	108790	110367	109843	109666	0.73	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	PB166636BS	Instrumnet Name :	P8
Client Sample ID :	LCS636	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:31:51	DataFile Name :	038LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27750	28084	27674	27836	0.78	cps
Ytterbium	172-1	147	140	120	136	10.24	cps
Ytterbium	172-2	43	53	30	42	27.72	cps
Ytterbium	176-1	2280	2370	2260	2304	2.54	cps
Ytterbium	176-2	320	393	337	350	10.98	cps
Yttrium	89-1	28561705	28443962	28382796	28462821	0.32	cps
Yttrium	89-2	1780873	1791295	1797169	1789779	0.46	cps
Zinc	66-2	5945	6005	5835	5928	1.46	cps
Zirconium	90-1	62305	62713	63008	62675	0.56	cps
Zirconium	91-1	13864	14107	13910	13960	0.93	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	757	763	910	810	10.70	cps
Antimony	121-1	127	147	143	139	7.72	cps
Arsenic	75-2	27	7	7	13	86.58	cps
Barium	135-1	9283	9834	9387	9501	3.08	cps
Barium	137-1	16343	16350	17071	16588	2.52	cps
Beryllium	9-1	330	394	387	370	9.49	cps
Bismuth	209-1	12895944	12700361	12509235	12701847	1.52	cps
Bismuth	209-2	4644082	4743269	4696889	4694747	1.06	cps
Bromine	81-1	9877	10160	10447	10162	2.81	cps
Cadmium	108-1	63	60	63	62	3.09	cps
Cadmium	106-1	7535	7569	7412	7505	1.10	cps
Cadmium	111-1	5267	5310	5187	5255	1.18	cps
Calcium	43-1	35551	34789	35885	35408	1.59	cps
Calcium	44-1	626679	620572	627060	624770	0.58	cps
Carbon	12-1	7444200	8331807	8999795	8258601	9.45	cps
Carbon	12-2	64484	64805	65766	65018	1.03	cps
Chlorine	35-1	718771	763980	791556	758102	4.85	cps
Chlorine	35-2	3140	2914	2900	2985	4.52	cps
Chromium	52-2	1350	1473	1620	1481	9.13	cps
Cobalt	59-2	373	303	333	337	10.43	cps
Copper	63-2	5038	4874	4704	4872	3.42	cps
Dysprosium	156-1	963	940	993	966	2.77	cps
Dysprosium	156-2	210	213	203	209	2.44	cps
Erbium	164-1	623	593	707	641	9.16	cps
Erbium	164-2	210	197	190	199	5.12	cps
Gadolinium	160-1	830	727	757	771	6.89	cps
Gadolinium	160-2	213	223	273	237	13.58	cps
Holmium	165-1	20683481	20436715	20444446	20521547	0.68	cps
Holmium	165-2	6412216	6500584	6404993	6439264	0.83	cps
Indium	115-1	16296279	15666712	15654695	15872562	2.31	cps
Indium	115-2	1303883	1337450	1323598	1321644	1.28	cps
Iron	54-2	1313	1333	1260	1302	2.91	cps
Iron	56-2	20909	20855	20592	20785	0.82	cps
Iron	57-2	547	613	530	563	7.83	cps
Krypton	83-1	220	253	257	243	8.33	cps
Lead	206-1	3110	3047	3127	3095	1.36	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2744	2597	2784	2708	3.63	cps
Lead	208-1	12366	11956	12309	12210	1.82	cps
Lithium	6-1	7623945	7593041	7571078	7596021	0.35	cps
Magnesium	24-2	12886	12906	13183	12991	1.28	cps
Manganese	55-2	5138	5088	5028	5084	1.08	cps
Molybdenum	94-1	4104	4768	4748	4540	8.32	cps
Molybdenum	95-1	740	857	713	770	9.90	cps
Molybdenum	96-1	1397	1527	1553	1492	5.62	cps
Molybdenum	97-1	423	493	453	457	7.69	cps
Molybdenum	98-1	1220	1130	1193	1181	3.91	cps
Neodymium	150-1	1597	1443	1443	1495	5.92	cps
Neodymium	150-2	283	323	363	323	12.37	cps
Nickel	60-2	1350	1250	1427	1342	6.60	cps
Phosphorus	31-2	797	850	840	829	3.42	cps
Potassium	39-2	64734	65149	66057	65313	1.04	cps
Rhodium	103-1	14563755	14167234	14327260	14352750	1.39	cps
Rhodium	103-2	5177715	5171571	5243368	5197551	0.77	cps
Scandium	45-1	10714379	10337786	10462288	10504817	1.83	cps
Scandium	45-2	182324	184221	180859	182468	0.92	cps
Selenium	82-1	-7	-7	-47	-20	-115.48	cps
Selenium	77-2	7	3	0	3	100.05	cps
Selenium	78-2	7	17	10	11	45.82	cps
Silicon	28-1	79913230	77939239	78867834	78906768	1.25	cps
Silver	107-1	200	237	207	214	9.11	cps
Silver	109-1	70	97	107	91	20.80	cps
Sodium	23-2	42744406	42987139	42567423	42766323	0.49	cps
Strontium	86-1	66688	66869	67944	67167	1.01	cps
Strontium	88-1	575597	584886	583514	581333	0.86	cps
Sulfur	34-1	1058689	1038255	1031862	1042935	1.34	cps
Terbium	159-1	21195946	20625445	20840877	20887423	1.38	cps
Terbium	159-2	6066516	6286502	6123305	6158774	1.85	cps
Thallium	203-1	373	260	323	319	17.81	cps
Thallium	205-1	857	783	720	787	8.69	cps
Tin	118-1	5058	5258	5188	5168	1.96	cps
Titanium	47-1	19177	19220	18970	19122	0.70	cps
Uranium	238-1	1003	1053	1120	1059	5.53	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-01	Instrumnet Name :	P8
Client Sample ID :	MDCZM3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:41:43	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	577	513	563	551	6.06	cps
Ytterbium	172-1	260	253	267	260	2.56	cps
Ytterbium	172-2	63	87	77	76	15.50	cps
Ytterbium	176-1	2000	1937	2040	1992	2.62	cps
Ytterbium	176-2	367	390	370	376	3.36	cps
Yttrium	89-1	27772233	26978896	26789740	27180290	1.92	cps
Yttrium	89-2	1644112	1669604	1695468	1669728	1.54	cps
Zinc	66-2	627	517	647	597	11.73	cps
Zirconium	90-1	11886	11802	11338	11675	2.53	cps
Zirconium	91-1	2707	2907	2510	2708	7.33	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2707	2617	2560	2628	2.82	cps
Antimony	121-1	277	217	230	241	13.07	cps
Arsenic	75-2	190	167	173	177	6.80	cps
Barium	135-1	103001	102695	105373	103690	1.41	cps
Barium	137-1	177596	180283	181344	179741	1.07	cps
Beryllium	9-1	1227	1281	1287	1265	2.61	cps
Bismuth	209-1	12959973	12987394	13092251	13013206	0.54	cps
Bismuth	209-2	5002218	5135782	4859034	4999012	2.77	cps
Bromine	81-1	28933	33026	35692	32550	10.46	cps
Cadmium	108-1	37	43	63	48	29.04	cps
Cadmium	106-1	7642	7692	7659	7664	0.33	cps
Cadmium	111-1	5447	5531	5450	5476	0.87	cps
Calcium	43-1	62669	63194	62157	62673	0.83	cps
Calcium	44-1	1059426	1069178	1076026	1068210	0.78	cps
Carbon	12-1	7442168	8454021	9053275	8316488	9.79	cps
Carbon	12-2	64373	65415	66885	65557	1.92	cps
Chlorine	35-1	811328	852014	876034	846459	3.86	cps
Chlorine	35-2	3364	3490	3367	3407	2.12	cps
Chromium	52-2	3567	3497	3344	3469	3.29	cps
Cobalt	59-2	30299	30656	30924	30626	1.02	cps
Copper	63-2	3807	3894	4024	3908	2.79	cps
Dysprosium	156-1	823	787	797	802	2.36	cps
Dysprosium	156-2	250	237	223	237	5.63	cps
Erbium	164-1	737	780	690	736	6.12	cps
Erbium	164-2	217	273	223	238	13.03	cps
Gadolinium	160-1	907	903	960	923	3.44	cps
Gadolinium	160-2	337	290	283	303	9.58	cps
Holmium	165-1	20204053	20753823	20317096	20424991	1.42	cps
Holmium	165-2	6646454	6915105	6489667	6683742	3.22	cps
Indium	115-1	16043824	16123706	16545182	16237571	1.66	cps
Indium	115-2	1376467	1504745	1376285	1419166	5.22	cps
Iron	54-2	53550	53001	54055	53535	0.98	cps
Iron	56-2	980456	977765	984930	981050	0.37	cps
Iron	57-2	24875	24251	24124	24417	1.65	cps
Krypton	83-1	247	220	263	243	8.98	cps
Lead	206-1	4207	4341	4337	4295	1.77	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3547	3581	3534	3554	0.68	cps
Lead	208-1	16518	16474	16748	16580	0.89	cps
Lithium	6-1	7532318	7532715	7552037	7539023	0.15	cps
Magnesium	24-2	82253	81583	82438	82091	0.55	cps
Manganese	55-2	162280	162689	162008	162326	0.21	cps
Molybdenum	94-1	880	920	1394	1065	26.86	cps
Molybdenum	95-1	540	573	573	562	3.42	cps
Molybdenum	96-1	643	707	673	674	4.70	cps
Molybdenum	97-1	280	330	383	331	15.61	cps
Molybdenum	98-1	823	770	893	829	7.46	cps
Neodymium	150-1	1107	1047	983	1046	5.90	cps
Neodymium	150-2	210	197	213	207	4.27	cps
Nickel	60-2	5558	5634	5364	5519	2.52	cps
Phosphorus	31-2	153	163	177	164	7.12	cps
Potassium	39-2	70320	68803	69436	69520	1.10	cps
Rhodium	103-1	14834259	14760068	14775762	14790030	0.26	cps
Rhodium	103-2	5532146	5665553	5455432	5551044	1.92	cps
Scandium	45-1	10562467	10501248	10550482	10538066	0.31	cps
Scandium	45-2	187963	196669	187840	190824	2.65	cps
Selenium	82-1	0	33	50	28	91.65	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	17	10	17	14	26.66	cps
Silicon	28-1	110341395	109552485	108609785	109501222	0.79	cps
Silver	107-1	253	253	203	237	12.20	cps
Silver	109-1	90	100	83	91	9.21	cps
Sodium	23-2	4673151	4614743	4667876	4651923	0.69	cps
Strontium	86-1	73612	74169	74178	73986	0.44	cps
Strontium	88-1	641466	646589	646269	644774	0.45	cps
Sulfur	34-1	975809	944883	954344	958345	1.65	cps
Terbium	159-1	21144343	20476831	21272756	20964643	2.04	cps
Terbium	159-2	6212176	6634940	6263089	6370068	3.62	cps
Thallium	203-1	427	420	457	434	4.50	cps
Thallium	205-1	977	843	1053	958	11.10	cps
Tin	118-1	5791	5868	5958	5872	1.42	cps
Titanium	47-1	2967	3514	3717	3399	11.42	cps
Uranium	238-1	650	770	690	703	8.69	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-02	Instrumnet Name :	P8
Client Sample ID :	MDCZP0	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:45:02	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	397	467	437	433	8.10	cps
Ytterbium	172-1	440	373	433	416	8.84	cps
Ytterbium	172-2	117	150	133	133	12.50	cps
Ytterbium	176-1	2040	2110	2097	2082	1.79	cps
Ytterbium	176-2	297	337	327	320	6.51	cps
Yttrium	89-1	27671709	27281537	27158252	27370499	0.98	cps
Yttrium	89-2	1677303	1816400	1758508	1750737	3.99	cps
Zinc	66-2	2827	2707	2974	2836	4.71	cps
Zirconium	90-1	1763	1934	1803	1834	4.85	cps
Zirconium	91-1	330	347	370	349	5.76	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2674	2637	2587	2633	1.65	cps
Antimony	121-1	350	333	347	343	2.57	cps
Arsenic	75-2	143	123	137	134	7.57	cps
Barium	135-1	239483	238127	241693	239768	0.75	cps
Barium	137-1	415659	417566	417763	416996	0.28	cps
Beryllium	9-1	755	811	785	784	3.59	cps
Bismuth	209-1	12866334	12701358	12621772	12729822	0.98	cps
Bismuth	209-2	4744334	4751154	4774551	4756680	0.33	cps
Bromine	81-1	169694	211627	238878	206733	16.86	cps
Cadmium	108-1	103	103	90	99	7.79	cps
Cadmium	106-1	7962	8119	7792	7958	2.05	cps
Cadmium	111-1	6431	6771	6508	6570	2.71	cps
Calcium	43-1	452532	457834	456608	455658	0.61	cps
Calcium	44-1	7461356	7397986	7462921	7440755	0.50	cps
Carbon	12-1	9423553	10129949	10601595	10051699	5.90	cps
Carbon	12-2	74343	73760	75010	74371	0.84	cps
Chlorine	35-1	3721058	4133577	4438541	4097725	8.79	cps
Chlorine	35-2	17364	17227	17197	17263	0.52	cps
Chromium	52-2	1890	2034	2104	2009	5.41	cps
Cobalt	59-2	219127	220311	218992	219477	0.33	cps
Copper	63-2	4137	4327	4251	4238	2.26	cps
Dysprosium	156-1	1987	1990	1823	1933	4.93	cps
Dysprosium	156-2	563	663	767	664	15.30	cps
Erbium	164-1	1927	1867	2010	1935	3.72	cps
Erbium	164-2	640	597	520	586	10.38	cps
Gadolinium	160-1	2047	2237	2264	2182	5.41	cps
Gadolinium	160-2	770	787	753	770	2.16	cps
Holmium	165-1	20622138	20459543	20984667	20688783	1.30	cps
Holmium	165-2	6430835	6502283	6543161	6492093	0.88	cps
Indium	115-1	16063487	16075504	16092875	16077289	0.09	cps
Indium	115-2	1346553	1348845	1350549	1348649	0.15	cps
Iron	54-2	8769	9020	9296	9028	2.92	cps
Iron	56-2	164994	166230	164392	165205	0.57	cps
Iron	57-2	3974	4274	4127	4125	3.64	cps
Krypton	83-1	243	243	203	230	10.04	cps
Lead	206-1	3350	3267	3284	3300	1.34	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2664	2870	2670	2735	4.30	cps
Lead	208-1	12753	12709	12609	12690	0.58	cps
Lithium	6-1	7529261	7509093	7564975	7534443	0.38	cps
Magnesium	24-2	432453	432402	431396	432084	0.14	cps
Manganese	55-2	1681894	1735373	1726564	1714610	1.67	cps
Molybdenum	94-1	1110	1273	1203	1196	6.85	cps
Molybdenum	95-1	593	737	547	626	15.83	cps
Molybdenum	96-1	853	707	790	783	9.39	cps
Molybdenum	97-1	407	353	363	374	7.57	cps
Molybdenum	98-1	957	810	897	888	8.31	cps
Neodymium	150-1	2050	2024	1970	2015	2.02	cps
Neodymium	150-2	423	477	440	447	6.11	cps
Nickel	60-2	21637	21763	21573	21658	0.45	cps
Phosphorus	31-2	110	97	103	103	6.45	cps
Potassium	39-2	148236	146340	149593	148056	1.10	cps
Rhodium	103-1	14508715	14279486	14596844	14461682	1.13	cps
Rhodium	103-2	5258875	5306430	5303472	5289593	0.50	cps
Scandium	45-1	10526650	10579884	10761789	10622774	1.16	cps
Scandium	45-2	187066	184164	187984	186405	1.07	cps
Selenium	82-1	127	70	210	136	51.95	cps
Selenium	77-2	7	7	0	4	86.60	cps
Selenium	78-2	17	13	13	14	13.35	cps
Silicon	28-1	81961164	82689745	82218690	82289867	0.45	cps
Silver	107-1	210	203	207	207	1.61	cps
Silver	109-1	90	67	67	74	18.09	cps
Sodium	23-2	27051425	26601216	26783124	26811922	0.84	cps
Strontium	86-1	287556	291175	288938	289223	0.63	cps
Strontium	88-1	2659692	2636864	2631524	2642693	0.57	cps
Sulfur	34-1	1727480	1736778	1757287	1740515	0.88	cps
Terbium	159-1	20970669	20669072	21055293	20898345	0.97	cps
Terbium	159-2	6291320	6217669	6253290	6254093	0.59	cps
Thallium	203-1	637	637	630	634	0.61	cps
Thallium	205-1	1627	1563	1503	1565	3.94	cps
Tin	118-1	4114	4197	4221	4177	1.34	cps
Titanium	47-1	3151	4086	3541	3593	13.07	cps
Uranium	238-1	1443	1483	1457	1461	1.39	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-03	Instrumnet Name :	P8
Client Sample ID :	MDCZP1	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:48:25	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	957	1023	997	992	3.38	cps
Ytterbium	172-1	1300	1177	1220	1232	5.08	cps
Ytterbium	172-2	460	427	450	446	3.84	cps
Ytterbium	176-1	2400	2770	2420	2530	8.23	cps
Ytterbium	176-2	503	507	483	498	2.53	cps
Yttrium	89-1	27129108	27421402	27198989	27249833	0.56	cps
Yttrium	89-2	1714767	1724728	1738548	1726014	0.69	cps
Zinc	66-2	8609	8166	8039	8271	3.62	cps
Zirconium	90-1	2570	2644	3048	2754	9.34	cps
Zirconium	91-1	597	500	493	530	10.91	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	13486	12879	12869	13078	2.70	cps
Antimony	121-1	720	680	847	749	11.62	cps
Arsenic	75-2	10634	10667	10314	10538	1.85	cps
Barium	135-1	1101280	1117946	1119506	1112911	0.91	cps
Barium	137-1	1981662	1936161	1968876	1962233	1.20	cps
Beryllium	9-1	424	456	452	444	4.00	cps
Bismuth	209-1	12915431	13098798	13071729	13028652	0.76	cps
Bismuth	209-2	4755668	4719498	4706922	4727362	0.54	cps
Bromine	81-1	149700	162108	169753	160520	6.30	cps
Cadmium	108-1	113	103	63	93	28.35	cps
Cadmium	106-1	8189	8072	8329	8197	1.57	cps
Cadmium	111-1	6430	6432	6610	6490	1.59	cps
Calcium	43-1	357351	359215	358396	358320	0.26	cps
Calcium	44-1	5876455	6029032	5923788	5943092	1.31	cps
Carbon	12-1	13912954	15216868	15728481	14952768	6.26	cps
Carbon	12-2	107798	109689	107906	108464	0.98	cps
Chlorine	35-1	1975605	2118742	2164132	2086160	4.72	cps
Chlorine	35-2	7989	8076	8099	8055	0.72	cps
Chromium	52-2	3641	3434	3300	3458	4.95	cps
Cobalt	59-2	115208	115161	113329	114566	0.94	cps
Copper	63-2	4801	5031	5091	4974	3.08	cps
Dysprosium	156-1	6232	5875	6098	6068	2.97	cps
Dysprosium	156-2	1617	1913	1790	1773	8.40	cps
Erbium	164-1	3967	3901	3614	3827	4.91	cps
Erbium	164-2	1120	1183	1063	1122	5.35	cps
Gadolinium	160-1	5134	5438	5431	5334	3.25	cps
Gadolinium	160-2	1994	2034	1950	1992	2.09	cps
Holmium	165-1	20846701	20607794	20534018	20662837	0.79	cps
Holmium	165-2	6493749	6443839	6466762	6468117	0.39	cps
Indium	115-1	16149865	16099281	16138134	16129093	0.16	cps
Indium	115-2	1347023	1336667	1344811	1342834	0.41	cps
Iron	54-2	6545858	6472579	6510978	6509805	0.56	cps
Iron	56-2	121096452	119110052	118885955	119697486	1.02	cps
Iron	57-2	3093444	2994314	3025517	3037758	1.67	cps
Krypton	83-1	290	273	313	292	6.88	cps
Lead	206-1	7145	7072	7185	7134	0.81	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5851	6182	6148	6060	3.00	cps
Lead	208-1	27729	28262	32236	29409	8.38	cps
Lithium	6-1	7527331	7340436	7479660	7449142	1.30	cps
Magnesium	24-2	642366	648251	644756	645124	0.46	cps
Manganese	55-2	1937863	1910275	1918274	1922138	0.74	cps
Molybdenum	94-1	4541	6045	5335	5307	14.18	cps
Molybdenum	95-1	4481	4477	4341	4433	1.80	cps
Molybdenum	96-1	5021	5488	5531	5347	5.29	cps
Molybdenum	97-1	2687	2777	2757	2740	1.72	cps
Molybdenum	98-1	7215	6882	6978	7025	2.44	cps
Neodymium	150-1	11235	11085	11135	11151	0.69	cps
Neodymium	150-2	2420	2244	2410	2358	4.21	cps
Nickel	60-2	38278	39114	38101	38497	1.40	cps
Phosphorus	31-2	603	563	597	588	3.65	cps
Potassium	39-2	336717	335886	335193	335932	0.23	cps
Rhodium	103-1	14587094	14480926	14480352	14516124	0.42	cps
Rhodium	103-2	5368863	5308303	5204634	5293933	1.57	cps
Scandium	45-1	10618045	10772412	10612754	10667737	0.85	cps
Scandium	45-2	186834	186248	185737	186273	0.29	cps
Selenium	82-1	97	43	53	64	43.99	cps
Selenium	77-2	13	10	17	13	25.01	cps
Selenium	78-2	13	13	20	16	24.76	cps
Silicon	28-1	194868390	195795417	192024150	194229319	1.01	cps
Silver	107-1	290	310	337	312	7.50	cps
Silver	109-1	113	137	110	120	12.11	cps
Sodium	23-2	20257105	20366592	20231455	20285051	0.35	cps
Strontium	86-1	257303	259891	257788	258327	0.53	cps
Strontium	88-1	2361484	2385498	2344696	2363893	0.87	cps
Sulfur	34-1	1428797	1411225	1430720	1423580	0.75	cps
Terbium	159-1	21000062	21085666	20844141	20976623	0.58	cps
Terbium	159-2	6183161	6109893	6218490	6170514	0.90	cps
Thallium	203-1	1017	1060	1043	1040	2.10	cps
Thallium	205-1	2484	2524	2477	2495	1.01	cps
Tin	118-1	4998	5041	4998	5012	0.50	cps
Titanium	47-1	13155	12347	12823	12775	3.18	cps
Uranium	238-1	3084	3107	3170	3120	1.44	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-04	Instrumnet Name :	P8
Client Sample ID :	MDCZP5	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:51:39	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1040	1010	1240	1097	11.40	cps
Ytterbium	172-1	2150	2260	2347	2252	4.38	cps
Ytterbium	172-2	800	843	770	804	4.58	cps
Ytterbium	176-1	3237	3280	3257	3258	0.67	cps
Ytterbium	176-2	643	853	787	761	14.10	cps
Yttrium	89-1	27539935	27599524	27294302	27477920	0.59	cps
Yttrium	89-2	1720722	1711324	1691922	1707989	0.86	cps
Zinc	66-2	5855	5941	5821	5872	1.06	cps
Zirconium	90-1	6318	7146	5788	6417	10.66	cps
Zirconium	91-1	1357	1297	1610	1421	11.71	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	567	480	513	520	8.41	cps
Antimony	121-1	283	277	247	269	7.26	cps
Arsenic	75-2	20	17	20	19	10.18	cps
Barium	135-1	398177	406237	400757	401724	1.02	cps
Barium	137-1	699002	705609	701715	702109	0.47	cps
Beryllium	9-1	331	329	322	327	1.38	cps
Bismuth	209-1	13009968	13173341	13043350	13075553	0.66	cps
Bismuth	209-2	4835046	4877031	4842674	4851584	0.46	cps
Bromine	81-1	37965	37490	34850	36768	4.56	cps
Cadmium	108-1	23	30	30	28	13.86	cps
Cadmium	106-1	7909	8062	7622	7865	2.84	cps
Cadmium	111-1	5550	5673	5368	5530	2.77	cps
Calcium	43-1	1851574	1928421	1890584	1890193	2.03	cps
Calcium	44-1	30403238	30269965	30191619	30288274	0.35	cps
Carbon	12-1	7982458	9039350	9376268	8799359	8.26	cps
Carbon	12-2	65354	66446	67028	66276	1.28	cps
Chlorine	35-1	753126	755688	744838	751217	0.75	cps
Chlorine	35-2	2987	2637	2660	2761	7.09	cps
Chromium	52-2	2324	2307	2227	2286	2.26	cps
Cobalt	59-2	320	333	307	320	4.17	cps
Copper	63-2	3440	3467	3384	3430	1.24	cps
Dysprosium	156-1	120	130	117	122	5.68	cps
Dysprosium	156-2	27	20	17	21	24.12	cps
Erbium	164-1	100	93	180	124	38.75	cps
Erbium	164-2	27	57	50	44	35.44	cps
Gadolinium	160-1	143	190	200	178	17.01	cps
Gadolinium	160-2	40	53	23	39	38.65	cps
Holmium	165-1	20598391	20706292	20701608	20668764	0.30	cps
Holmium	165-2	6485954	6551048	6662432	6566478	1.36	cps
Indium	115-1	16115497	16070048	16256184	16147243	0.60	cps
Indium	115-2	1351057	1374115	1361152	1362108	0.85	cps
Iron	54-2	18185	18776	18722	18561	1.76	cps
Iron	56-2	336954	335456	339537	337316	0.61	cps
Iron	57-2	8279	8313	8139	8244	1.12	cps
Krypton	83-1	290	277	240	269	9.63	cps
Lead	206-1	8486	8433	8710	8543	1.72	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	6939	6899	6985	6941	0.63	cps
Lead	208-1	32590	32353	32636	32526	0.47	cps
Lithium	6-1	7458564	7523992	7502426	7494994	0.44	cps
Magnesium	24-2	1396903	1345732	1379253	1373963	1.89	cps
Manganese	55-2	41781	42908	42974	42554	1.58	cps
Molybdenum	94-1	2237	2387	2337	2320	3.29	cps
Molybdenum	95-1	3320	3294	3504	3373	3.39	cps
Molybdenum	96-1	3574	3714	3621	3636	1.96	cps
Molybdenum	97-1	2054	2117	2167	2112	2.69	cps
Molybdenum	98-1	5254	5464	5428	5382	2.08	cps
Neodymium	150-1	157	187	217	187	16.07	cps
Neodymium	150-2	27	30	50	36	35.49	cps
Nickel	60-2	2594	2580	2814	2663	4.92	cps
Phosphorus	31-2	783	847	740	790	6.79	cps
Potassium	39-2	205296	203037	202092	203475	0.81	cps
Rhodium	103-1	14755880	14751031	14875535	14794149	0.48	cps
Rhodium	103-2	5332580	5359201	5396972	5362918	0.60	cps
Scandium	45-1	10782770	10494020	10614943	10630578	1.36	cps
Scandium	45-2	187326	189655	185373	187451	1.14	cps
Selenium	82-1	-37	0	87	17	380.02	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	7	7	7	7	0.00	cps
Silicon	28-1	134897618	136129518	137686285	136237807	1.03	cps
Silver	107-1	453	513	543	503	9.11	cps
Silver	109-1	377	287	313	326	14.20	cps
Sodium	23-2	4878237	4776352	4864078	4839556	1.14	cps
Strontium	86-1	3385681	3431817	3390597	3402698	0.74	cps
Strontium	88-1	29553773	30104096	29524737	29727535	1.10	cps
Sulfur	34-1	748029	743457	744184	745223	0.33	cps
Terbium	159-1	20860170	20930796	21137433	20976133	0.69	cps
Terbium	159-2	6325700	6401723	6171737	6299720	1.86	cps
Thallium	203-1	317	343	260	307	13.88	cps
Thallium	205-1	787	720	720	742	5.19	cps
Tin	118-1	5084	5141	5054	5093	0.86	cps
Titanium	47-1	2594	2544	2514	2550	1.59	cps
Uranium	238-1	303	267	237	269	12.42	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-05	Instrumnet Name :	P8
Client Sample ID :	MDCZM4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:54:53	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	27	33	37	32	15.80	cps
Ytterbium	172-1	90	100	117	102	13.18	cps
Ytterbium	172-2	77	40	33	50	46.67	cps
Ytterbium	176-1	2014	1987	2200	2067	5.62	cps
Ytterbium	176-2	270	287	263	273	4.40	cps
Yttrium	89-1	27250666	27924368	27737892	27637642	1.26	cps
Yttrium	89-2	1705929	1720881	1717113	1714641	0.45	cps
Zinc	66-2	2800	2627	2747	2725	3.26	cps
Zirconium	90-1	1113	997	1207	1106	9.52	cps
Zirconium	91-1	240	230	203	224	8.44	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	620	707	697	674	7.03	cps
Antimony	121-1	247	257	227	243	6.28	cps
Arsenic	75-2	63	87	47	66	30.65	cps
Barium	135-1	125367	126612	125229	125736	0.61	cps
Barium	137-1	219224	219275	218015	218838	0.33	cps
Beryllium	9-1	812	807	790	803	1.47	cps
Bismuth	209-1	13212939	13028164	13064165	13101756	0.75	cps
Bismuth	209-2	4583824	4820262	4776562	4726883	2.66	cps
Bromine	81-1	86274	98385	109862	98174	12.02	cps
Cadmium	108-1	83	70	87	80	11.02	cps
Cadmium	106-1	7969	8226	7966	8054	1.85	cps
Cadmium	111-1	6100	6299	6105	6168	1.84	cps
Calcium	43-1	204824	209050	206886	206920	1.02	cps
Calcium	44-1	3438794	3479231	3483913	3467313	0.72	cps
Carbon	12-1	9136968	10162136	10657883	9985662	7.77	cps
Carbon	12-2	73355	74266	73881	73834	0.62	cps
Chlorine	35-1	1792900	1998789	2129123	1973604	8.59	cps
Chlorine	35-2	7872	8169	8239	8093	2.41	cps
Chromium	52-2	3824	3831	3851	3835	0.36	cps
Cobalt	59-2	22394	22141	22217	22251	0.58	cps
Copper	63-2	3444	3500	3631	3525	2.72	cps
Dysprosium	156-1	313	323	340	326	4.14	cps
Dysprosium	156-2	123	93	103	107	14.32	cps
Erbium	164-1	340	340	383	354	7.06	cps
Erbium	164-2	103	100	77	93	15.57	cps
Gadolinium	160-1	423	427	380	410	6.35	cps
Gadolinium	160-2	130	97	137	121	17.69	cps
Holmium	165-1	20670294	20573432	20776745	20673490	0.49	cps
Holmium	165-2	6170773	6372964	6393449	6312395	1.95	cps
Indium	115-1	16347490	15912632	16089428	16116517	1.36	cps
Indium	115-2	1283763	1322298	1324351	1310137	1.75	cps
Iron	54-2	23650	23893	23660	23734	0.58	cps
Iron	56-2	430557	432790	431537	431628	0.26	cps
Iron	57-2	10424	10787	10944	10719	2.49	cps
Krypton	83-1	237	217	263	239	9.80	cps
Lead	206-1	3504	3637	3487	3543	2.32	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2917	2960	2940	2939	0.74	cps
Lead	208-1	13520	13780	13910	13736	1.45	cps
Lithium	6-1	7336806	7538714	7466076	7447198	1.37	cps
Magnesium	24-2	172062	172069	171168	171766	0.30	cps
Manganese	55-2	151751	150769	152999	151840	0.74	cps
Molybdenum	94-1	650	640	650	647	0.89	cps
Molybdenum	95-1	427	470	503	467	8.24	cps
Molybdenum	96-1	537	583	703	608	14.15	cps
Molybdenum	97-1	340	287	340	322	9.56	cps
Molybdenum	98-1	683	733	717	711	3.58	cps
Neodymium	150-1	337	377	397	370	8.26	cps
Neodymium	150-2	87	120	60	89	33.82	cps
Nickel	60-2	8803	8753	8446	8667	2.23	cps
Phosphorus	31-2	140	147	103	130	17.95	cps
Potassium	39-2	102430	101735	101299	101821	0.56	cps
Rhodium	103-1	14761285	14617908	14644671	14674621	0.52	cps
Rhodium	103-2	5107809	5252714	5188794	5183106	1.40	cps
Scandium	45-1	10541289	10545962	10559520	10548924	0.09	cps
Scandium	45-2	175231	182023	181788	179681	2.15	cps
Selenium	82-1	70	67	13	50	63.60	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	7	3	10	7	50.03	cps
Silicon	28-1	121005342	121040828	120349892	120798687	0.32	cps
Silver	107-1	250	250	200	233	12.37	cps
Silver	109-1	37	83	93	71	42.53	cps
Sodium	23-2	10499942	10464395	10337742	10434026	0.82	cps
Strontium	86-1	135179	135896	137525	136200	0.88	cps
Strontium	88-1	1180649	1178009	1190347	1183002	0.55	cps
Sulfur	34-1	1124023	1140860	1123027	1129303	0.89	cps
Terbium	159-1	21062891	21053462	21193391	21103248	0.37	cps
Terbium	159-2	5913063	6056808	6109619	6026497	1.69	cps
Thallium	203-1	450	487	503	480	5.68	cps
Thallium	205-1	1060	1223	1097	1127	7.61	cps
Tin	118-1	4607	4848	4394	4616	4.91	cps
Titanium	47-1	2224	2014	2167	2135	5.09	cps
Uranium	238-1	453	487	507	482	5.59	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-06	Instrumnet Name :	P8
Client Sample ID :	MDCZN3	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 15:58:10	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	527	467	407	467	12.86	cps
Ytterbium	172-1	263	350	233	282	21.47	cps
Ytterbium	172-2	83	93	90	89	5.73	cps
Ytterbium	176-1	2124	2084	2017	2075	2.60	cps
Ytterbium	176-2	350	333	353	346	3.10	cps
Yttrium	89-1	27327770	26793128	27736757	27285885	1.73	cps
Yttrium	89-2	1632606	1682206	1674154	1662989	1.60	cps
Zinc	66-2	2984	2944	3244	3057	5.33	cps
Zirconium	90-1	1060	1167	1093	1107	4.93	cps
Zirconium	91-1	267	313	197	259	22.68	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4774	4928	4958	4886	2.01	cps
Antimony	121-1	490	577	490	519	9.64	cps
Arsenic	75-2	443	440	420	434	2.91	cps
Barium	135-1	331451	330391	331723	331188	0.21	cps
Barium	137-1	573014	572613	577853	574493	0.51	cps
Beryllium	9-1	651	619	586	619	5.25	cps
Bismuth	209-1	12693091	12732727	12622496	12682771	0.44	cps
Bismuth	209-2	4755944	4639174	4626874	4673997	1.52	cps
Bromine	81-1	360119	429025	468922	419355	13.13	cps
Cadmium	108-1	47	43	67	52	24.17	cps
Cadmium	106-1	7882	7999	7962	7948	0.75	cps
Cadmium	111-1	5545	5616	5577	5579	0.63	cps
Calcium	43-1	700586	712071	711983	708213	0.93	cps
Calcium	44-1	11708806	11847675	11747522	11768001	0.61	cps
Carbon	12-1	13254776	14657961	15156854	14356531	6.87	cps
Carbon	12-2	104420	104434	104011	104288	0.23	cps
Chlorine	35-1	2207738	2446707	2578266	2410904	7.79	cps
Chlorine	35-2	10004	9937	10634	10191	3.77	cps
Chromium	52-2	2540	2720	2740	2667	4.13	cps
Cobalt	59-2	5858	6028	5901	5929	1.49	cps
Copper	63-2	4327	4441	4334	4367	1.46	cps
Dysprosium	156-1	9083	8970	9380	9144	2.32	cps
Dysprosium	156-2	2920	2870	2744	2845	3.20	cps
Erbium	164-1	9724	9373	9684	9594	2.00	cps
Erbium	164-2	2780	2804	2814	2799	0.61	cps
Gadolinium	160-1	9207	9373	9407	9329	1.15	cps
Gadolinium	160-2	3514	3277	3477	3423	3.72	cps
Holmium	165-1	20762051	20513761	20214668	20496827	1.34	cps
Holmium	165-2	6417314	6302513	6433329	6384385	1.12	cps
Indium	115-1	15927628	15756803	15376261	15686897	1.80	cps
Indium	115-2	1299985	1306812	1318619	1308472	0.72	cps
Iron	54-2	605009	605017	603729	604585	0.12	cps
Iron	56-2	11008376	11133285	11383962	11175208	1.71	cps
Iron	57-2	276028	275465	276189	275894	0.14	cps
Krypton	83-1	253	240	247	247	2.70	cps
Lead	206-1	5408	5438	5611	5486	2.00	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4668	4367	4591	4542	3.43	cps
Lead	208-1	21504	20890	21551	21315	1.73	cps
Lithium	6-1	7465429	7458626	7576107	7500054	0.88	cps
Magnesium	24-2	1525472	1556752	1512715	1531647	1.48	cps
Manganese	55-2	1206952	1219520	1217143	1214539	0.55	cps
Molybdenum	94-1	3597	3137	3307	3347	6.96	cps
Molybdenum	95-1	1953	2100	1910	1988	5.01	cps
Molybdenum	96-1	2334	2294	2510	2379	4.85	cps
Molybdenum	97-1	1187	1283	1343	1271	6.22	cps
Molybdenum	98-1	2820	3260	2940	3007	7.57	cps
Neodymium	150-1	11015	11602	11425	11347	2.65	cps
Neodymium	150-2	2497	2467	2397	2454	2.09	cps
Nickel	60-2	22394	22224	22261	22293	0.40	cps
Phosphorus	31-2	387	397	370	384	3.50	cps
Potassium	39-2	212836	212471	212856	212721	0.10	cps
Rhodium	103-1	14090923	14195892	14179695	14155503	0.40	cps
Rhodium	103-2	5084477	5190054	5167126	5147219	1.08	cps
Scandium	45-1	10378893	10317323	10279766	10325327	0.48	cps
Scandium	45-2	180995	183056	181987	182013	0.57	cps
Selenium	82-1	300	267	350	306	13.73	cps
Selenium	77-2	10	20	7	12	56.76	cps
Selenium	78-2	17	17	17	17	0.00	cps
Silicon	28-1	203251044	207675784	204420004	205115610	1.12	cps
Silver	107-1	223	210	177	203	11.82	cps
Silver	109-1	43	63	60	56	19.29	cps
Sodium	23-2	40936474	40935666	39945879	40606007	1.41	cps
Strontium	86-1	663566	666342	673843	667917	0.80	cps
Strontium	88-1	5946289	5987875	6028709	5987624	0.69	cps
Sulfur	34-1	1429634	1398793	1406560	1411662	1.14	cps
Terbium	159-1	20647403	20810831	20365118	20607784	1.09	cps
Terbium	159-2	6138835	6027117	6135477	6100476	1.04	cps
Thallium	203-1	387	410	340	379	9.41	cps
Thallium	205-1	857	883	857	866	1.78	cps
Tin	118-1	3714	3997	4141	3951	5.50	cps
Titanium	47-1	6915	6868	6999	6927	0.95	cps
Uranium	238-1	1793	1733	1727	1751	2.10	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-07	Instrumnet Name :	P8
Client Sample ID :	MDCZP2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:01:30	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5591	5431	5408	5477	1.82	cps
Ytterbium	172-1	11842	12439	11849	12043	2.85	cps
Ytterbium	172-2	4357	4457	4314	4376	1.68	cps
Ytterbium	176-1	9310	9323	9600	9411	1.74	cps
Ytterbium	176-2	2964	3007	3247	3073	4.97	cps
Yttrium	89-1	26691846	27005719	26770446	26822670	0.61	cps
Yttrium	89-2	1648367	1679823	1695967	1674719	1.45	cps
Zinc	66-2	1047	1020	1120	1062	4.88	cps
Zirconium	90-1	6091	6038	6111	6080	0.62	cps
Zirconium	91-1	1280	1300	1297	1292	0.83	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2240	2124	2010	2125	5.41	cps
Antimony	121-1	253	273	260	262	3.88	cps
Arsenic	75-2	103	123	103	110	10.50	cps
Barium	135-1	344495	348344	350058	347632	0.82	cps
Barium	137-1	600677	606372	606151	604400	0.53	cps
Beryllium	9-1	1945	1951	1939	1945	0.32	cps
Bismuth	209-1	12989700	12882967	12802834	12891834	0.73	cps
Bismuth	209-2	4752159	4755096	4843955	4783737	1.09	cps
Bromine	81-1	142666	151868	152741	149092	3.74	cps
Cadmium	108-1	93	93	100	96	4.03	cps
Cadmium	106-1	7942	7999	7559	7833	3.06	cps
Cadmium	111-1	6501	6417	6181	6367	2.61	cps
Calcium	43-1	271411	275527	273979	273639	0.76	cps
Calcium	44-1	4522254	4589403	4636666	4582774	1.25	cps
Carbon	12-1	7394850	8275197	8904284	8191443	9.26	cps
Carbon	12-2	61491	62167	63516	62392	1.65	cps
Chlorine	35-1	2087237	2199689	2298595	2195173	4.82	cps
Chlorine	35-2	8666	8786	8649	8700	0.86	cps
Chromium	52-2	2704	2734	2900	2779	3.81	cps
Cobalt	59-2	20986	21393	21510	21296	1.29	cps
Copper	63-2	4574	4511	4407	4497	1.87	cps
Dysprosium	156-1	1437	1453	1347	1412	4.06	cps
Dysprosium	156-2	450	480	497	476	4.97	cps
Erbium	164-1	1307	1403	1440	1383	4.98	cps
Erbium	164-2	383	427	440	417	7.11	cps
Gadolinium	160-1	1587	1577	1460	1541	4.57	cps
Gadolinium	160-2	627	610	590	609	3.02	cps
Holmium	165-1	20657052	20309180	20294212	20420148	1.01	cps
Holmium	165-2	6406785	6420343	6461609	6429579	0.44	cps
Indium	115-1	15841882	15962295	15933525	15912567	0.40	cps
Indium	115-2	1323420	1308330	1341607	1324452	1.26	cps
Iron	54-2	26849	27266	27132	27082	0.79	cps
Iron	56-2	499743	498408	494440	497530	0.55	cps
Iron	57-2	12472	12496	12452	12473	0.17	cps
Krypton	83-1	223	220	277	240	13.25	cps
Lead	206-1	2397	2424	2544	2455	3.18	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2047	2094	2200	2114	3.72	cps
Lead	208-1	9428	9415	9475	9439	0.33	cps
Lithium	6-1	7536669	7529762	7604976	7557136	0.55	cps
Magnesium	24-2	370996	373272	368945	371071	0.58	cps
Manganese	55-2	270271	271791	270672	270911	0.29	cps
Molybdenum	94-1	493	570	600	554	9.92	cps
Molybdenum	95-1	333	420	317	357	15.56	cps
Molybdenum	96-1	463	417	427	436	5.64	cps
Molybdenum	97-1	210	230	203	214	6.47	cps
Molybdenum	98-1	573	610	487	557	11.38	cps
Neodymium	150-1	1383	1413	1483	1427	3.60	cps
Neodymium	150-2	317	333	320	323	2.73	cps
Nickel	60-2	15909	15872	16156	15979	0.97	cps
Phosphorus	31-2	147	127	153	142	9.76	cps
Potassium	39-2	103357	103145	103440	103314	0.15	cps
Rhodium	103-1	14533237	14405084	14531516	14489946	0.51	cps
Rhodium	103-2	5333822	5088818	5312119	5244920	2.59	cps
Scandium	45-1	10390318	10428885	10413503	10410902	0.19	cps
Scandium	45-2	178936	179044	182386	180122	1.09	cps
Selenium	82-1	140	93	93	109	24.74	cps
Selenium	77-2	3	3	0	2	86.60	cps
Selenium	78-2	0	7	0	2	173.21	cps
Silicon	28-1	129506628	129970825	130668695	130048716	0.45	cps
Silver	107-1	227	147	200	191	21.31	cps
Silver	109-1	50	60	57	56	9.17	cps
Sodium	23-2	12136707	11993119	11825741	11985189	1.30	cps
Strontium	86-1	303309	306852	305018	305059	0.58	cps
Strontium	88-1	2761687	2747269	2767711	2758889	0.38	cps
Sulfur	34-1	1307054	1295542	1294178	1298925	0.54	cps
Terbium	159-1	20679407	20808148	20795437	20760997	0.34	cps
Terbium	159-2	6048304	6116152	6270790	6145082	1.86	cps
Thallium	203-1	503	367	437	436	15.69	cps
Thallium	205-1	987	947	997	977	2.71	cps
Tin	118-1	3871	3811	4107	3929	3.99	cps
Titanium	47-1	2287	2407	2340	2345	2.56	cps
Uranium	238-1	1030	923	877	943	8.33	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08	Instrumnet Name :	P8
Client Sample ID :	MDCZN8	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:04:45	DataFile Name :	046AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	483	543	560	529	7.62	cps
Ytterbium	172-1	537	493	587	539	8.67	cps
Ytterbium	172-2	177	213	223	204	12.02	cps
Ytterbium	176-1	2107	2234	2210	2184	3.09	cps
Ytterbium	176-2	357	337	440	378	14.51	cps
Yttrium	89-1	26754067	26697916	26824394	26758792	0.24	cps
Yttrium	89-2	1671222	1656334	1691071	1672876	1.04	cps
Zinc	66-2	5891	5851	5945	5896	0.79	cps
Zirconium	90-1	1057	1263	1207	1176	9.09	cps
Zirconium	91-1	240	213	207	220	8.02	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2164	2074	2054	2097	2.79	cps
Antimony	121-1	200	243	240	228	10.59	cps
Arsenic	75-2	83	110	107	100	14.53	cps
Barium	135-1	338399	345022	344964	342795	1.11	cps
Barium	137-1	591006	600501	607379	599629	1.37	cps
Beryllium	9-1	1917	1990	2004	1970	2.35	cps
Bismuth	209-1	12980045	13088615	12868347	12979002	0.85	cps
Bismuth	209-2	4843521	4742402	4799821	4795248	1.06	cps
Bromine	81-1	107676	123229	130066	120324	9.54	cps
Cadmium	108-1	93	103	103	100	5.77	cps
Cadmium	106-1	7415	7679	7552	7549	1.75	cps
Cadmium	111-1	5959	6220	6191	6123	2.34	cps
Calcium	43-1	271789	272491	276358	273546	0.90	cps
Calcium	44-1	4496599	4461254	4618246	4525366	1.82	cps
Carbon	12-1	7571387	8536483	8971854	8359908	8.57	cps
Carbon	12-2	63580	65023	64594	64399	1.15	cps
Chlorine	35-1	2084502	2279736	2325516	2229918	5.74	cps
Chlorine	35-2	8686	8763	8706	8718	0.46	cps
Chromium	52-2	4177	4084	4037	4100	1.74	cps
Cobalt	59-2	21450	21349	21249	21349	0.47	cps
Copper	63-2	4517	4421	4741	4560	3.60	cps
Dysprosium	156-1	1480	1407	1403	1430	3.03	cps
Dysprosium	156-2	500	433	457	463	7.30	cps
Erbium	164-1	1350	1347	1253	1317	4.17	cps
Erbium	164-2	390	403	400	398	1.74	cps
Gadolinium	160-1	1620	1507	1487	1538	4.68	cps
Gadolinium	160-2	580	577	500	552	8.20	cps
Holmium	165-1	20131819	20213144	20904572	20416512	2.08	cps
Holmium	165-2	6413564	6417554	6418478	6416532	0.04	cps
Indium	115-1	16223759	15953704	15931062	16036175	1.02	cps
Indium	115-2	1322298	1327457	1329651	1326469	0.28	cps
Iron	54-2	27249	26782	27527	27186	1.38	cps
Iron	56-2	501839	497353	494208	497800	0.77	cps
Iron	57-2	12149	12089	12385	12208	1.29	cps
Krypton	83-1	277	247	253	259	6.08	cps
Lead	206-1	2357	2177	2287	2274	3.99	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1974	1900	1950	1941	1.93	cps
Lead	208-1	9051	8918	8988	8986	0.74	cps
Lithium	6-1	7493453	7455924	7535250	7494876	0.53	cps
Magnesium	24-2	366527	368655	363272	366151	0.74	cps
Manganese	55-2	267711	267082	264332	266375	0.67	cps
Molybdenum	94-1	637	583	630	617	4.71	cps
Molybdenum	95-1	327	380	360	356	7.58	cps
Molybdenum	96-1	460	523	470	484	7.03	cps
Molybdenum	97-1	250	233	250	244	3.94	cps
Molybdenum	98-1	597	650	617	621	4.34	cps
Neodymium	150-1	1457	1450	1490	1466	1.46	cps
Neodymium	150-2	310	283	293	296	4.56	cps
Nickel	60-2	15966	16123	16413	16167	1.40	cps
Phosphorus	31-2	177	143	103	141	26.02	cps
Potassium	39-2	104535	104062	102809	103802	0.86	cps
Rhodium	103-1	14697556	14463790	14424027	14528458	1.02	cps
Rhodium	103-2	5272598	5276606	5274733	5274645	0.04	cps
Scandium	45-1	10307148	10292215	10604193	10401185	1.69	cps
Scandium	45-2	182719	181737	180714	181723	0.55	cps
Selenium	82-1	10	-13	17	4	354.25	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	3	7	7	50.03	cps
Silicon	28-1	127141408	129669455	130009895	128940253	1.22	cps
Silver	107-1	207	153	227	196	19.38	cps
Silver	109-1	43	73	47	54	30.20	cps
Sodium	23-2	12000856	11968737	11846478	11938690	0.68	cps
Strontium	86-1	300026	303631	306084	303247	1.00	cps
Strontium	88-1	2772050	2806660	2746752	2775154	1.08	cps
Sulfur	34-1	1281280	1274434	1289003	1281572	0.57	cps
Terbium	159-1	21091068	20514039	20933208	20846105	1.43	cps
Terbium	159-2	6168160	6180241	6117758	6155386	0.54	cps
Thallium	203-1	487	467	413	456	8.32	cps
Thallium	205-1	987	933	943	954	2.97	cps
Tin	118-1	3651	3661	3414	3575	3.91	cps
Titanium	47-1	2354	2184	2180	2239	4.43	cps
Uranium	238-1	1023	947	887	952	7.19	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-09	Instrumnet Name :	P8
Client Sample ID :	MDCZN8D	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:08:05	DataFile Name :	047AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	627	527	520	558	10.71	cps
Ytterbium	172-1	483	543	560	529	7.62	cps
Ytterbium	172-2	213	163	223	200	16.07	cps
Ytterbium	176-1	2270	2137	2180	2196	3.10	cps
Ytterbium	176-2	303	353	367	341	9.79	cps
Yttrium	89-1	26795033	26902499	27007069	26901533	0.39	cps
Yttrium	89-2	1681808	1673057	1681489	1678785	0.30	cps
Zinc	66-2	6048	5935	5828	5937	1.85	cps
Zirconium	90-1	1147	1080	1187	1138	4.74	cps
Zirconium	91-1	223	237	240	233	3.78	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517	570	487	524	8.05	cps
Antimony	121-1	143	123	97	121	19.33	cps
Arsenic	75-2	37	23	37	32	23.90	cps
Barium	135-1	71119	71327	71913	71453	0.58	cps
Barium	137-1	122932	123285	124025	123414	0.45	cps
Beryllium	9-1	691	631	585	636	8.38	cps
Bismuth	209-1	13405981	13525535	13129190	13353569	1.52	cps
Bismuth	209-2	4770806	5006101	4884364	4887090	2.41	cps
Bromine	81-1	46447	46149	45590	46062	0.94	cps
Cadmium	108-1	37	47	43	42	12.06	cps
Cadmium	106-1	8062	7939	7609	7870	2.98	cps
Cadmium	111-1	5821	5758	5476	5685	3.24	cps
Calcium	43-1	56049	57652	57400	57034	1.51	cps
Calcium	44-1	940687	932887	942307	938627	0.54	cps
Carbon	12-1	5133734	5136014	5217105	5162284	0.92	cps
Carbon	12-2	33207	33204	34073	33495	1.49	cps
Chlorine	35-1	787431	799439	797302	794724	0.81	cps
Chlorine	35-2	2860	2970	2804	2878	2.95	cps
Chromium	52-2	1060	1173	1213	1149	6.92	cps
Cobalt	59-2	4457	4681	4514	4551	2.55	cps
Copper	63-2	2977	2984	3000	2987	0.40	cps
Dysprosium	156-1	377	323	317	339	9.71	cps
Dysprosium	156-2	120	137	113	123	9.74	cps
Erbium	164-1	350	337	413	367	11.17	cps
Erbium	164-2	100	103	120	108	9.94	cps
Gadolinium	160-1	440	350	363	384	12.63	cps
Gadolinium	160-2	157	143	127	142	10.57	cps
Holmium	165-1	20945693	20669890	20934398	20849994	0.75	cps
Holmium	165-2	6536197	6711955	6586329	6611494	1.37	cps
Indium	115-1	16391446	16716770	16354396	16487537	1.21	cps
Indium	115-2	1346554	1389754	1357667	1364659	1.64	cps
Iron	54-2	5975	5998	5885	5952	1.01	cps
Iron	56-2	109053	109963	107964	108993	0.92	cps
Iron	57-2	2600	2747	2664	2670	2.76	cps
Krypton	83-1	263	303	247	271	10.74	cps
Lead	206-1	1727	1910	1894	1843	5.50	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1613	1603	1503	1573	3.87	cps
Lead	208-1	6804	7341	6931	7025	3.99	cps
Lithium	6-1	7747477	7669914	7534154	7650515	1.41	cps
Magnesium	24-2	79002	79167	77923	78697	0.86	cps
Manganese	55-2	56003	56163	56153	56106	0.16	cps
Molybdenum	94-1	483	480	397	453	10.83	cps
Molybdenum	95-1	207	213	217	212	2.40	cps
Molybdenum	96-1	293	323	280	299	7.42	cps
Molybdenum	97-1	103	160	150	138	21.95	cps
Molybdenum	98-1	297	347	357	333	9.64	cps
Neodymium	150-1	347	320	290	319	8.89	cps
Neodymium	150-2	70	63	50	61	16.66	cps
Nickel	60-2	4624	4547	4484	4552	1.54	cps
Phosphorus	31-2	97	90	83	90	7.41	cps
Potassium	39-2	29066	28167	28742	28658	1.59	cps
Rhodium	103-1	15145536	14943713	15198976	15096075	0.89	cps
Rhodium	103-2	5325473	5465076	5432013	5407521	1.35	cps
Scandium	45-1	10643153	10655110	10540110	10612791	0.60	cps
Scandium	45-2	182101	188674	182792	184522	1.96	cps
Selenium	82-1	-17	-20	43	2	1603.31	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	7	13	9	43.25	cps
Silicon	28-1	27352422	27383104	27013354	27249627	0.75	cps
Silver	107-1	157	177	143	159	10.56	cps
Silver	109-1	37	50	47	44	15.61	cps
Sodium	23-2	2469010	2553056	2503930	2508665	1.68	cps
Strontium	86-1	63838	63650	62723	63404	0.94	cps
Strontium	88-1	548540	550666	550590	549932	0.22	cps
Sulfur	34-1	865818	861119	860943	862627	0.32	cps
Terbium	159-1	21279628	21283744	21414136	21325836	0.36	cps
Terbium	159-2	6094290	6254567	6221191	6190016	1.37	cps
Thallium	203-1	313	310	300	308	2.25	cps
Thallium	205-1	810	667	730	736	9.77	cps
Tin	118-1	3417	3364	3434	3405	1.07	cps
Titanium	47-1	890	847	987	908	7.90	cps
Uranium	238-1	187	210	217	204	7.70	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-08LX5	Instrumnet Name :	P8
Client Sample ID :	MDCZN8L	Dilution Factor :	5
Date & Time Acquired :	2025-02-11 16:11:23	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	107	127	130	121	10.42	cps
Ytterbium	172-1	233	187	260	227	16.38	cps
Ytterbium	172-2	63	53	73	63	15.79	cps
Ytterbium	176-1	2100	2017	2010	2042	2.46	cps
Ytterbium	176-2	277	313	317	302	7.34	cps
Yttrium	89-1	27605725	27850654	27279498	27578626	1.04	cps
Yttrium	89-2	1706314	1717801	1656228	1693448	1.93	cps
Zinc	66-2	1233	1410	1437	1360	8.13	cps
Zirconium	90-1	937	970	950	952	1.76	cps
Zirconium	91-1	190	177	200	189	6.20	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	115917	115483	117610	116337	0.97	cps
Antimony	121-1	1723085	1776602	1761890	1753859	1.58	cps
Arsenic	75-2	11628	11471	11682	11594	0.94	cps
Barium	135-1	8342276	8532928	8486731	8453978	1.18	cps
Barium	137-1	14331236	14767362	14712227	14603608	1.63	cps
Beryllium	9-1	261708	264534	264566	263603	0.62	cps
Bismuth	209-1	12940662	12984990	13129307	13018320	0.76	cps
Bismuth	209-2	4796806	4735740	4742067	4758204	0.71	cps
Bromine	81-1	93776	116281	126807	112288	15.03	cps
Cadmium	108-1	13640	14308	14274	14074	2.67	cps
Cadmium	106-1	26075	26830	27244	26716	2.22	cps
Cadmium	111-1	210764	217579	215780	214708	1.64	cps
Calcium	43-1	269446	273800	278206	273817	1.60	cps
Calcium	44-1	4463271	4543904	4551520	4519565	1.08	cps
Carbon	12-1	6925739	7946942	8585181	7819287	10.70	cps
Carbon	12-2	62740	63175	63951	63289	0.97	cps
Chlorine	35-1	33608617	37474062	38642383	36575021	7.20	cps
Chlorine	35-2	150089	152167	155422	152559	1.76	cps
Chromium	52-2	630832	636816	627938	631862	0.72	cps
Cobalt	59-2	3151010	3190720	3176300	3172677	0.63	cps
Copper	63-2	1231263	1235281	1230004	1232183	0.22	cps
Dysprosium	156-1	1417	1560	1447	1475	5.13	cps
Dysprosium	156-2	513	443	493	483	7.46	cps
Erbium	164-1	1360	1380	1297	1346	3.23	cps
Erbium	164-2	393	407	347	382	8.24	cps
Gadolinium	160-1	1530	1493	1567	1530	2.40	cps
Gadolinium	160-2	527	540	567	544	3.74	cps
Holmium	165-1	20434878	20468231	20452527	20451878	0.08	cps
Holmium	165-2	6348396	6332622	6368124	6349714	0.28	cps
Indium	115-1	16078455	15968529	16067427	16038137	0.38	cps
Indium	115-2	1330162	1332604	1331060	1331275	0.09	cps
Iron	54-2	177700	179961	178156	178606	0.67	cps
Iron	56-2	2953390	2890856	2948260	2930835	1.18	cps
Iron	57-2	71552	72379	73307	72413	1.21	cps
Krypton	83-1	283	283	247	271	7.81	cps
Lead	206-1	281736	288039	288734	286169	1.35	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	240796	243679	242823	242433	0.61	cps
Lead	208-1	1112729	1127846	1129880	1123485	0.83	cps
Lithium	6-1	7757868	7337870	7587949	7561229	2.79	cps
Magnesium	24-2	368008	373993	375748	372583	1.09	cps
Manganese	55-2	882686	879504	884644	882278	0.29	cps
Molybdenum	94-1	827	907	807	847	6.25	cps
Molybdenum	95-1	550	503	430	494	12.23	cps
Molybdenum	96-1	740	673	653	689	6.59	cps
Molybdenum	97-1	353	283	337	324	11.27	cps
Molybdenum	98-1	820	803	817	813	1.08	cps
Neodymium	150-1	1890	1947	1863	1900	2.24	cps
Neodymium	150-2	307	290	300	299	2.81	cps
Nickel	60-2	867088	864594	872958	868213	0.49	cps
Phosphorus	31-2	120	113	133	122	8.33	cps
Potassium	39-2	104152	104313	105381	104615	0.64	cps
Rhodium	103-1	14373107	14523991	14643698	14513599	0.93	cps
Rhodium	103-2	5281191	5203391	5192102	5225562	0.93	cps
Scandium	45-1	10286236	10381419	10467396	10378350	0.87	cps
Scandium	45-2	181210	181549	179843	180867	0.50	cps
Selenium	82-1	4564	4641	4971	4725	4.57	cps
Selenium	77-2	80	90	80	83	6.93	cps
Selenium	78-2	270	237	233	247	8.22	cps
Silicon	28-1	130088205	133107235	132834721	132010054	1.27	cps
Silver	107-1	971001	996744	993879	987208	1.43	cps
Silver	109-1	934703	962368	952810	949960	1.48	cps
Sodium	23-2	11968266	11934663	12126303	12009744	0.85	cps
Strontium	86-1	303516	305821	312284	307207	1.48	cps
Strontium	88-1	2750673	2824850	2768562	2781362	1.39	cps
Sulfur	34-1	1297190	1285542	1284691	1289141	0.54	cps
Terbium	159-1	20932664	20586678	20865718	20795020	0.88	cps
Terbium	159-2	6215971	6196883	6126024	6179626	0.77	cps
Thallium	203-1	836003	837279	847864	840382	0.77	cps
Thallium	205-1	2099226	2078748	2112041	2096672	0.80	cps
Tin	118-1	4861	4921	4844	4875	0.83	cps
Titanium	47-1	2437	2414	2417	2422	0.52	cps
Uranium	238-1	980	960	1007	982	2.38	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-10	Instrumnet Name :	P8
Client Sample ID :	MDCZN8S	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:14:45	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1199201	1202961	1206093	1202752	0.29	cps
Ytterbium	172-1	547	453	523	508	9.57	cps
Ytterbium	172-2	173	177	220	190	13.70	cps
Ytterbium	176-1	2384	2334	2220	2312	3.62	cps
Ytterbium	176-2	360	363	430	384	10.27	cps
Yttrium	89-1	26551470	27103151	27358903	27004508	1.53	cps
Yttrium	89-2	1683743	1673645	1688604	1681997	0.45	cps
Zinc	66-2	254249	256527	260501	257092	1.23	cps
Zirconium	90-1	1710	1460	1653	1608	8.15	cps
Zirconium	91-1	543	530	557	543	2.45	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6171	5918	6145	6078	2.29	cps
Antimony	121-1	673	573	700	649	10.29	cps
Arsenic	75-2	293	313	343	317	7.95	cps
Barium	135-1	195357	200062	199189	198203	1.26	cps
Barium	137-1	342913	354348	347788	348349	1.65	cps
Beryllium	9-1	1459	1512	1486	1486	1.81	cps
Bismuth	209-1	13165778	6078433	11733998	10326069	36.29	cps
Bismuth	209-2	4932893	4641007	4991258	4855053	3.87	cps
Bromine	81-1	123529	141165	149634	138110	9.64	cps
Cadmium	108-1	37	40	53	43	20.34	cps
Cadmium	106-1	7982	3811	7262	6352	35.10	cps
Cadmium	111-1	5629	2713	5106	4483	34.68	cps
Calcium	43-1	666185	681920	684481	677529	1.46	cps
Calcium	44-1	11093615	11049907	11153431	11098984	0.47	cps
Carbon	12-1	12123253	13431239	14024043	13192845	7.37	cps
Carbon	12-2	95605	95635	97024	96088	0.84	cps
Chlorine	35-1	4019601	3916540	3829550	3921897	2.43	cps
Chlorine	35-2	13256	12642	12239	12712	4.03	cps
Chromium	52-2	4484	4701	4744	4643	3.00	cps
Cobalt	59-2	47118	46332	46248	46566	1.03	cps
Copper	63-2	4828	4731	4597	4719	2.45	cps
Dysprosium	156-1	1890	2214	2137	2080	8.12	cps
Dysprosium	156-2	550	507	580	546	6.76	cps
Erbium	164-1	1727	1790	1800	1772	2.24	cps
Erbium	164-2	493	523	550	522	5.43	cps
Gadolinium	160-1	1900	1807	1910	1872	3.04	cps
Gadolinium	160-2	733	733	743	737	0.78	cps
Holmium	165-1	20993592	9571192	18925883	16496889	36.89	cps
Holmium	165-2	6717071	6282360	6807268	6602233	4.25	cps
Indium	115-1	16114951	7464422	14748262	12775878	36.40	cps
Indium	115-2	1391672	1291447	1418635	1367251	4.90	cps
Iron	54-2	2308131	2267609	2353360	2309700	1.86	cps
Iron	56-2	41957742	41106353	41558462	41540852	1.03	cps
Iron	57-2	1020103	1020434	1019820	1020119	0.03	cps
Krypton	83-1	257	287	280	274	5.74	cps
Lead	206-1	18326	18493	18680	18500	0.96	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14662	14915	14909	14829	0.97	cps
Lead	208-1	69817	71431	70455	70568	1.15	cps
Lithium	6-1	7584183	3526080	6951122	6020462	36.26	cps
Magnesium	24-2	1438600	1446406	1416237	1433748	1.09	cps
Manganese	55-2	1530567	1517116	1542911	1530198	0.84	cps
Molybdenum	94-1	2974	2964	2927	2955	0.83	cps
Molybdenum	95-1	1473	1560	1540	1525	2.98	cps
Molybdenum	96-1	1977	2150	2124	2084	4.48	cps
Molybdenum	97-1	1017	1013	1027	1019	0.68	cps
Molybdenum	98-1	2234	2360	2417	2337	4.02	cps
Neodymium	150-1	2590	2660	2574	2608	1.76	cps
Neodymium	150-2	540	557	573	557	2.99	cps
Nickel	60-2	15408	15225	15685	15440	1.50	cps
Phosphorus	31-2	2147	2033	1977	2052	4.22	cps
Potassium	39-2	98862	100017	99288	99389	0.59	cps
Rhodium	103-1	14585131	6661445	13308795	11518457	36.94	cps
Rhodium	103-2	5435811	5104500	5500256	5346856	3.97	cps
Scandium	45-1	10684569	4746806	9671530	8367635	37.96	cps
Scandium	45-2	189304	174523	190462	184763	4.81	cps
Selenium	82-1	70	80	117	89	27.64	cps
Selenium	77-2	0	3	0	1	173.21	cps
Selenium	78-2	3	10	20	11	75.52	cps
Silicon	28-1	158196928	162850091	161052034	160699684	1.46	cps
Silver	107-1	1004	633	503	713	36.38	cps
Silver	109-1	563	570	390	508	20.10	cps
Sodium	23-2	20425471	20308945	20767109	20500508	1.16	cps
Strontium	86-1	734677	763027	751602	749768	1.90	cps
Strontium	88-1	6685017	6776282	6687070	6716123	0.78	cps
Sulfur	34-1	1851974	1878430	1890003	1873469	1.04	cps
Terbium	159-1	21043271	9602773	19222409	16622818	36.98	cps
Terbium	159-2	6384734	5900873	6370300	6218636	4.43	cps
Thallium	203-1	750	707	663	707	6.13	cps
Thallium	205-1	1750	1470	1483	1568	10.08	cps
Tin	118-1	3677	3244	3280	3400	7.07	cps
Titanium	47-1	9387	9721	9387	9498	2.03	cps
Uranium	238-1	967	1077	1113	1052	7.25	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-11	Instrumnet Name :	P8
Client Sample ID :	MDCZL6	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:17:57	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1503	1460	1417	1460	2.97	cps
Ytterbium	172-1	873	960	940	924	4.91	cps
Ytterbium	172-2	370	310	317	332	9.90	cps
Ytterbium	176-1	2660	1587	2454	2234	25.50	cps
Ytterbium	176-2	487	463	537	496	7.56	cps
Yttrium	89-1	27331223	12633233	24869631	21611362	36.43	cps
Yttrium	89-2	1742567	1644003	1751148	1712573	3.48	cps
Zinc	66-2	31281	30172	29948	30467	2.34	cps
Zirconium	90-1	5851	5314	5404	5523	5.21	cps
Zirconium	91-1	1273	1120	1287	1227	7.55	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2988423	3006675	3059738	3018278	1.23	cps
Antimony	121-1	8072719	8143410	8036717	8084282	0.67	cps
Arsenic	75-2	140253	140701	141953	140969	0.63	cps
Barium	135-1	9891535	9943559	9908745	9914613	0.27	cps
Barium	137-1	16972029	17387408	17078249	17145895	1.26	cps
Beryllium	9-1	2602823	2617385	2578421	2599543	0.76	cps
Bismuth	209-1	11887540	11773869	11752663	11804691	0.61	cps
Bismuth	209-2	4259118	4275696	4345710	4293508	1.07	cps
Bromine	81-1	26746	24999	23667	25137	6.14	cps
Cadmium	108-1	158799	161996	159764	160186	1.02	cps
Cadmium	106-1	233594	232079	230276	231983	0.72	cps
Cadmium	111-1	1974128	1958811	1957555	1963498	0.47	cps
Calcium	43-1	12605284	12452386	12589667	12549112	0.67	cps
Calcium	44-1	203962990	203152110	204283337	203799479	0.29	cps
Carbon	12-1	5154862	5138235	5134510	5142536	0.21	cps
Carbon	12-2	38390	38153	37762	38101	0.83	cps
Chlorine	35-1	1075111	1039343	996137	1036864	3.81	cps
Chlorine	35-2	3664	3317	3194	3392	7.19	cps
Chromium	52-2	1589774	1592294	1612378	1598149	0.78	cps
Cobalt	59-2	2984075	2981664	2975122	2980287	0.16	cps
Copper	63-2	22316471	22210585	22416486	22314514	0.46	cps
Dysprosium	156-1	467	457	417	447	5.92	cps
Dysprosium	156-2	93	87	93	91	4.22	cps
Erbium	164-1	460	433	487	460	5.80	cps
Erbium	164-2	157	140	157	151	6.37	cps
Gadolinium	160-1	413	427	453	431	4.73	cps
Gadolinium	160-2	193	147	103	148	30.46	cps
Holmium	165-1	20328263	20333828	19820532	20160874	1.46	cps
Holmium	165-2	6199552	6369288	6258070	6275637	1.37	cps
Indium	115-1	14958027	15075882	14675878	14903262	1.38	cps
Indium	115-2	1207064	1244856	1242532	1231484	1.72	cps
Iron	54-2	15802470	15805466	15532381	15713439	1.00	cps
Iron	56-2	287775482	284024389	284958829	285586234	0.68	cps
Iron	57-2	7271006	7176302	7166920	7204743	0.80	cps
Krypton	83-1	270	313	323	302	9.38	cps
Lead	206-1	33158458	32878830	32473668	32836985	1.05	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28047803	28405655	28071631	28175030	0.71	cps
Lead	208-1	129441030	130559383	129636273	129878895	0.46	cps
Lithium	6-1	7055655	6974483	6876763	6968967	1.29	cps
Magnesium	24-2	54104784	54085729	54449039	54213184	0.38	cps
Manganese	55-2	6403111	6316960	6286784	6335618	0.95	cps
Molybdenum	94-1	28399420	28515609	28031914	28315647	0.89	cps
Molybdenum	95-1	41334654	41172477	41105699	41204277	0.29	cps
Molybdenum	96-1	45752446	44844084	44607676	45068069	1.34	cps
Molybdenum	97-1	25658100	25487146	25195065	25446771	0.92	cps
Molybdenum	98-1	66674127	66638566	66288234	66533642	0.32	cps
Neodymium	150-1	757	690	783	743	6.47	cps
Neodymium	150-2	60	40	50	50	20.00	cps
Nickel	60-2	777976	781932	781029	780312	0.27	cps
Phosphorus	31-2	27366	28151	28207	27908	1.69	cps
Potassium	39-2	14557777	14432146	14593986	14527970	0.58	cps
Rhodium	103-1	13410254	13338096	13029757	13259369	1.52	cps
Rhodium	103-2	4682718	4702531	4747408	4710886	0.70	cps
Scandium	45-1	10396914	10365434	10160232	10307527	1.25	cps
Scandium	45-2	179043	181574	182522	181047	0.99	cps
Selenium	82-1	116229	118901	116652	117261	1.22	cps
Selenium	77-2	1663	1733	1737	1711	2.42	cps
Selenium	78-2	5685	5675	5888	5749	2.09	cps
Silicon	28-1	6821339	6834764	6847256	6834453	0.19	cps
Silver	107-1	9781341	9663284	9870958	9771861	1.07	cps
Silver	109-1	9343008	9203419	9257482	9267970	0.76	cps
Sodium	23-2	110544632	108596948	108357118	109166233	1.10	cps
Strontium	86-1	2655008	2622905	2679089	2652334	1.06	cps
Strontium	88-1	23056625	22922306	22910057	22962996	0.35	cps
Sulfur	34-1	1430120	1454301	1412466	1432296	1.47	cps
Terbium	159-1	20688474	20433223	20020782	20380826	1.65	cps
Terbium	159-2	5899377	6056114	6071023	6008838	1.58	cps
Thallium	203-1	8127804	8092875	7964576	8061751	1.07	cps
Thallium	205-1	19270840	19101688	19165049	19179193	0.45	cps
Tin	118-1	6464921	6548119	6490494	6501178	0.66	cps
Titanium	47-1	12097951	12092018	12163256	12117742	0.33	cps
Uranium	238-1	26228990	26409061	26365201	26334417	0.36	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV023	Instrumnet Name :	P8
Client Sample ID :	CCV023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:21:13	DataFile Name :	051CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1217426	1215489	1217688	1216868	0.10	cps
Ytterbium	172-1	460	523	500	494	6.48	cps
Ytterbium	172-2	200	217	153	190	17.28	cps
Ytterbium	176-1	41375	40799	40532	40902	1.05	cps
Ytterbium	176-2	12456	13023	12403	12627	2.72	cps
Yttrium	89-1	26579858	26563475	26119014	26420782	0.99	cps
Yttrium	89-2	1631373	1665052	1636597	1644341	1.10	cps
Zinc	66-2	2403374	2407910	2431817	2414367	0.63	cps
Zirconium	90-1	14332818	14429369	14417662	14393283	0.37	cps
Zirconium	91-1	3262240	3210133	3223543	3231972	0.84	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	117	140	126	10.05	cps
Antimony	121-1	2320	2097	2114	2177	5.72	cps
Arsenic	75-2	10	3	10	8	49.52	cps
Barium	135-1	563	590	673	609	9.42	cps
Barium	137-1	1143	950	953	1016	10.90	cps
Beryllium	9-1	1091	1067	901	1020	10.15	cps
Bismuth	209-1	13336675	13512655	13439089	13429473	0.66	cps
Bismuth	209-2	4894495	4885566	4884639	4888233	0.11	cps
Bromine	81-1	12889	12672	12175	12579	2.91	cps
Cadmium	108-1	40	17	40	32	41.80	cps
Cadmium	106-1	8413	7912	8186	8170	3.07	cps
Cadmium	111-1	6004	5637	5822	5821	3.15	cps
Calcium	43-1	893	617	690	733	19.55	cps
Calcium	44-1	29764	28505	27593	28621	3.81	cps
Carbon	12-1	3940091	3934127	3885265	3919828	0.77	cps
Carbon	12-2	25035	25636	25512	25394	1.25	cps
Chlorine	35-1	683784	652511	631494	655930	4.01	cps
Chlorine	35-2	1983	2147	2027	2052	4.12	cps
Chromium	52-2	847	990	1040	959	10.47	cps
Cobalt	59-2	230	237	263	243	7.25	cps
Copper	63-2	2940	3194	2874	3003	5.62	cps
Dysprosium	156-1	20	17	37	24	43.83	cps
Dysprosium	156-2	0	7	3	3	100.05	cps
Erbium	164-1	93	120	113	109	12.75	cps
Erbium	164-2	27	40	20	29	35.25	cps
Gadolinium	160-1	67	110	73	83	28.00	cps
Gadolinium	160-2	3	13	17	11	62.48	cps
Holmium	165-1	20926005	20817536	20711342	20818294	0.52	cps
Holmium	165-2	6398972	6441881	6330590	6390481	0.88	cps
Indium	115-1	16738909	16509838	16040070	16429606	2.17	cps
Indium	115-2	1346473	1353743	1354436	1351550	0.33	cps
Iron	54-2	833	700	720	751	9.57	cps
Iron	56-2	13844	12556	13180	13193	4.88	cps
Iron	57-2	347	343	307	332	6.68	cps
Krypton	83-1	293	283	227	268	13.43	cps
Lead	206-1	4534	4207	3997	4246	6.37	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3687	3447	3204	3446	7.02	cps
Lead	208-1	17905	16458	15607	16657	6.98	cps
Lithium	6-1	7751243	7797536	7701069	7749949	0.62	cps
Magnesium	24-2	3274	3047	3137	3153	3.62	cps
Manganese	55-2	403	370	427	400	7.12	cps
Molybdenum	94-1	1557	1370	1370	1432	7.53	cps
Molybdenum	95-1	1890	1687	1437	1671	13.59	cps
Molybdenum	96-1	2197	1897	1617	1904	15.24	cps
Molybdenum	97-1	1137	1020	857	1005	14.00	cps
Molybdenum	98-1	2850	2584	2470	2635	7.41	cps
Neodymium	150-1	3	13	20	12	68.66	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	1117	1137	1100	1118	1.64	cps
Phosphorus	31-2	67	80	77	74	9.32	cps
Potassium	39-2	10227	10507	10377	10370	1.35	cps
Rhodium	103-1	15207909	15348593	14909476	15155326	1.48	cps
Rhodium	103-2	5359569	5378822	5418676	5385689	0.56	cps
Scandium	45-1	10745887	10732610	10723164	10733887	0.11	cps
Scandium	45-2	183422	186007	183442	184290	0.81	cps
Selenium	82-1	-23	10	13	0	342378187533	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	17	10	12	31.50	cps
Silicon	28-1	549845	542840	539920	544202	0.94	cps
Silver	107-1	1323	1070	1050	1148	13.28	cps
Silver	109-1	947	833	797	859	9.10	cps
Sodium	23-2	71755	71507	70764	71342	0.72	cps
Strontium	86-1	573	583	587	581	1.19	cps
Strontium	88-1	1987	1813	2004	1935	5.44	cps
Sulfur	34-1	756763	746515	748081	750453	0.74	cps
Terbium	159-1	21091142	21342965	21432594	21288900	0.83	cps
Terbium	159-2	6222888	6223326	6314605	6253606	0.84	cps
Thallium	203-1	1147	1013	870	1010	13.70	cps
Thallium	205-1	2577	2394	2300	2424	5.81	cps
Tin	118-1	3587	3497	3330	3472	3.75	cps
Titanium	47-1	833	840	647	773	14.19	cps
Uranium	238-1	840	760	697	766	9.38	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB023	Instrumnet Name :	P8
Client Sample ID :	CCB023	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:24:16	DataFile Name :	052CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	63	27	30	40	50.68	cps
Ytterbium	172-1	127	100	140	122	16.66	cps
Ytterbium	172-2	60	43	50	51	16.42	cps
Ytterbium	176-1	2150	1853	2014	2006	7.40	cps
Ytterbium	176-2	210	280	303	264	18.37	cps
Yttrium	89-1	27787414	27686411	27274366	27582730	0.99	cps
Yttrium	89-2	1696242	1691016	1728731	1705330	1.20	cps
Zinc	66-2	333	310	370	338	8.95	cps
Zirconium	90-1	1640	1517	1463	1540	5.88	cps
Zirconium	91-1	370	300	290	320	13.62	cps

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Prep Standard - Chemical Standard Summary

Order ID : Q1245

Test : Metals CLP MS

Prepbatch ID : PB166535,

Sequence ID/Qc Batch ID: LB134662,LB134674,

Standard ID :
MP84041,MP84042,MP84074,MP84099,MP84297,MP84414,MP84415,MP84416,MP84417,MP84418,MP84419,MP84420,MP84421,MP84422,MP84423,MP84438,MP84439,MP84440,MP84441,MP84442,MP84443,MP84444,MP84473,MP84474,

Chemical ID :
M4884,M4888,M5192,M5288,M5289,M5298,M5304,M5472,M5476,M5496,M5497,M5498,M5513,M5516,M5519,M5658,M5697,M5739,M5751,M5768,M5798,M5799,M5800,M5801,M5802,M5811,M5815,M5816,M5817,M5819,M5820,M5873,M5874,M5960,M5961,M5962,M5977,M5978,M5981,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M6055,M6079,M6121,M6126,M6127,M6128,M6144,M6145,M6146,M6150,W3112,

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	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

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

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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	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

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

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Metals STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84414	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 10.00000ml of M6126 + 175.00000ml of W3112 + 5.00000ml of M6121 = 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
2902	S8 ICPMS	MP84415	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 1.00000ml of M5496 + 2.50000ml of M5288 + 2.50000ml of M5811 + 5.00000ml of M5498 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84414 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3947	S7(SFAM,6020,200.8)	MP84416	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.00000ml of M4884 + 0.00000ml of M4888 + 0.00000ml of M5192 + 0.00000ml of M5288 + 0.00000ml of M5513 + 1.00000ml of M5476 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.90000ml of M5496 + 10.00000ml of M5977 + 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 M5519 + 4.90000ml of M5811 + 5.00000ml of M6121 + 50.00000ml of M5304 + 830.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M5498 + 9.90000ml of M6127 + 9.90000ml of M6144 = 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)	MP84417	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 48.50000ml of W3112 + 50.00000ml of MP84416 = 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)	MP84418	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 73.50000ml of W3112 + 25.00000ml of MP84416 = 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)	MP84419	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 86.00000ml of W3112 + 12.50000ml of MP84416 = 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)	MP84420	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84417 = 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)	MP84421	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.05000ml of M5476 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5960 + 0.05000ml of M5981 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.05000ml of M6128 + 0.10000ml of M5496 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M6121 + 2.50000ml of M6127 + 2.50000ml of M6144 + 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)	MP84422	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 98.00000ml of W3112 + 0.50000ml of MP84421 = 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)	MP84423	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.50000ml of M6121 + 1.00000ml of M6126 + 88.50000ml of W3112 + 10.00000ml of MP84422 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84438	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.00000ml of M4884 + 0.00000ml of M5978 + 0.20000ml of M5513 + 0.50000ml of M5476 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6126 + 12.45000ml of M5519 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M5498 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5304 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M5496 + 5.00000ml of M5977 + 5.00000ml of M6121 + 830.60000ml of W3112 = 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
3958	ICV(SFAM)	MP84439	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 2.00000ml of M6150 + 98.00000ml of MP84414 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84440	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84414 = 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	MP84441	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP84414 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3962	MG 10PPM FOR TUNE	MP84442	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84414 = 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	MP84443	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84442 + 96.00000ml of MP84414 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3903	ISS 3PPM	MP84444	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/11/2025

FROM 5.00000ml of M6126 + 75.00000ml of M5739 + 170.00000ml of MP84414 = 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
3958	ICV(SFAM)	MP84473	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/13/2025

FROM 0.05000ml of M5472 + 0.50000ml of M5192 + 2.00000ml of M6150 + 97.45000ml of MP84414 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1048	SE 1PPM	MP84474	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/13/2025

FROM 0.01000ml of M5962 + 9.99000ml of MP84414 = 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.	57014 / Si, 1000 PPM, 125 ml	030921	03/09/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	09/27/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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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CHEMICAL RECEIPT LOG BOOK

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

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

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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.	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

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

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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

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

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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.	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.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57015 / P, 1000 PPM, 125 ml	091123	09/11/2026	05/01/2024 / jaswal	02/09/2024 / jaswal	M5820

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART B / ICSB (ICPMS) STOCK SOLUTION	CP-MS ICSB-0803	04/30/2025	04/17/2024 / jaswal	07/14/2022 / jaswal	M5874

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	07/03/2024 / kareem	06/11/2024 / kareem	M5960

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

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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 #
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-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

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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

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

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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 #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	01/15/2025 / Jaswal	09/30/2024 / Jaswal	M6079

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

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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 #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

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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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:

834

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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		

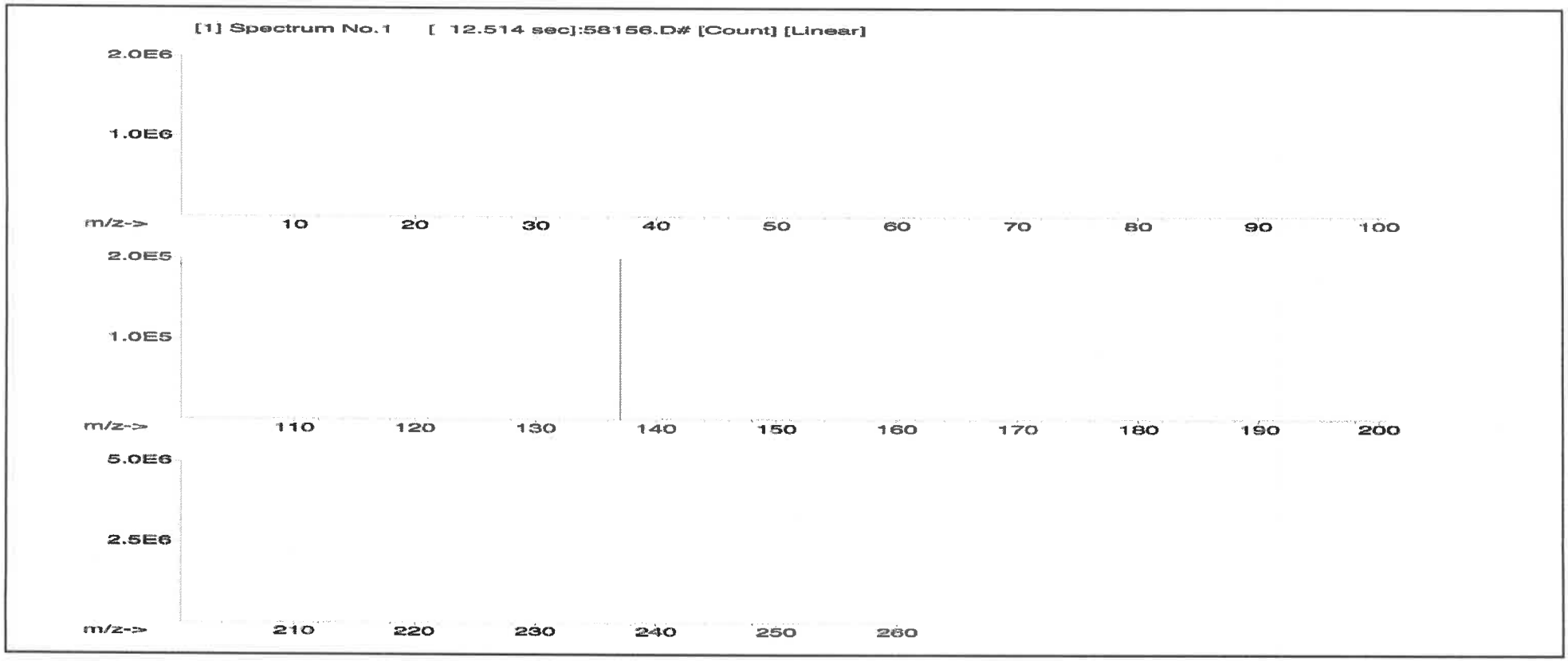
Giovanni Esposito

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



839

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:

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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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840

CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.07

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

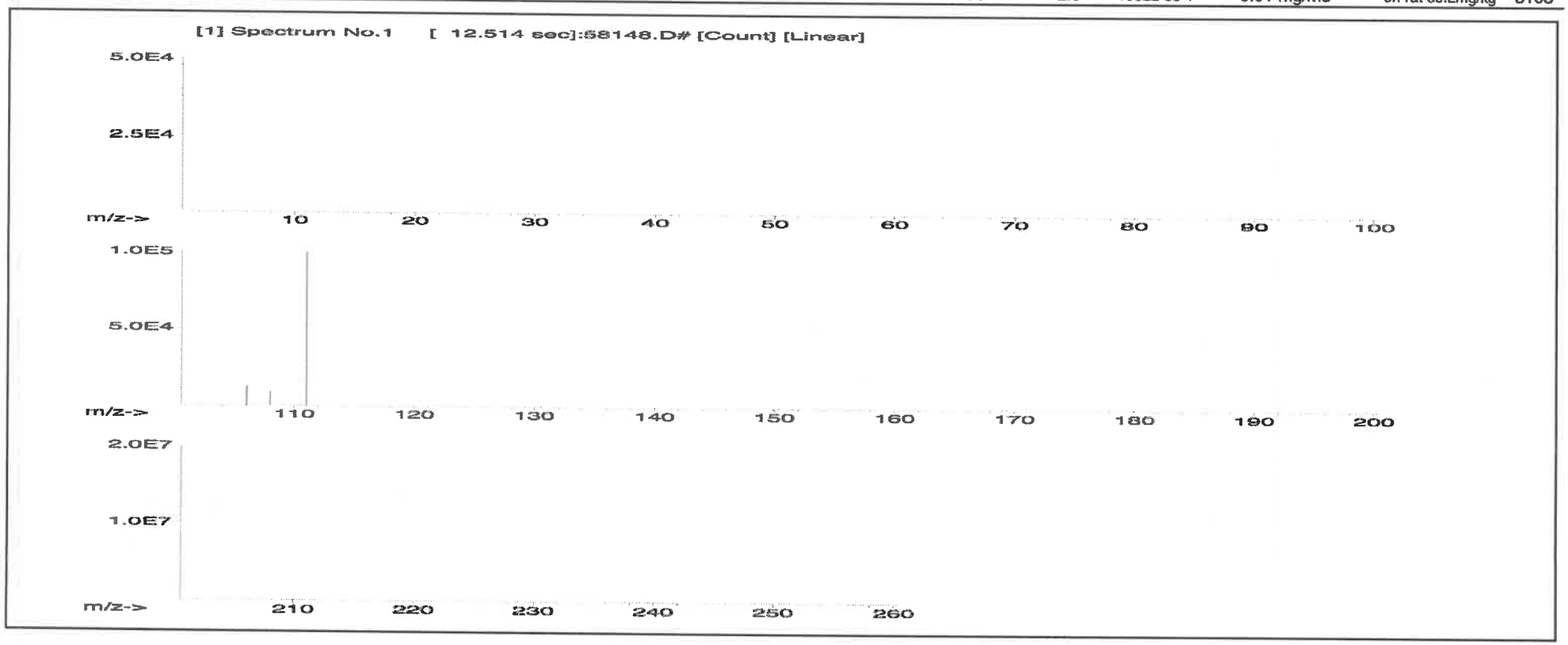
5E-05 Balance Uncertainty
0.100 Flask Uncertainty

Aleah O'Brady

Formulated By: Aleah O'Brady 070124

Reviewed By: Pedro L. Rentas 070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



841

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:

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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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842

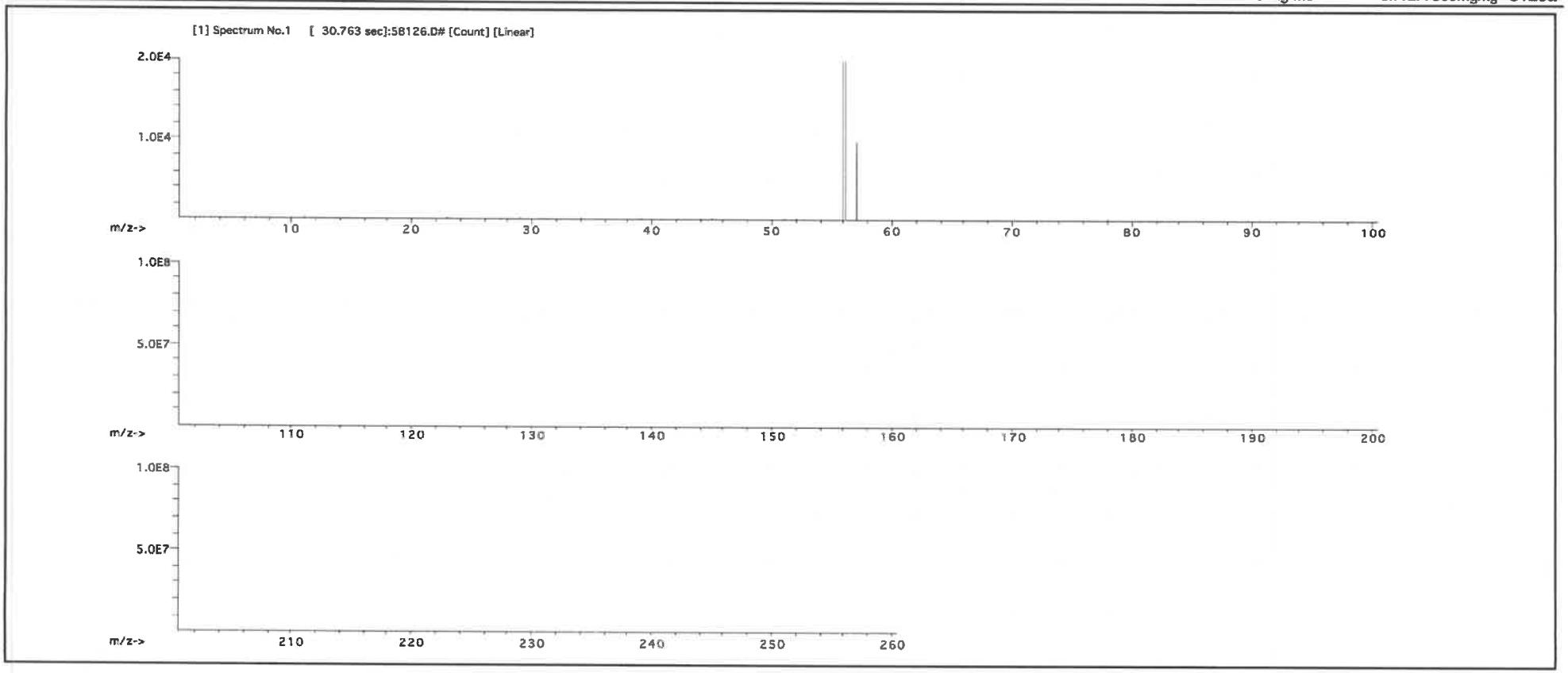
CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**58126**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**051523**			
Description:	**Iron (Fe)**	5.0%	250.0 (mL)	Nitric Acid
Expiration Date:	051526			
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):	5000.1	0.12	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



843

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.10
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:



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844

CERTIFIED WEIGHT REPORT:

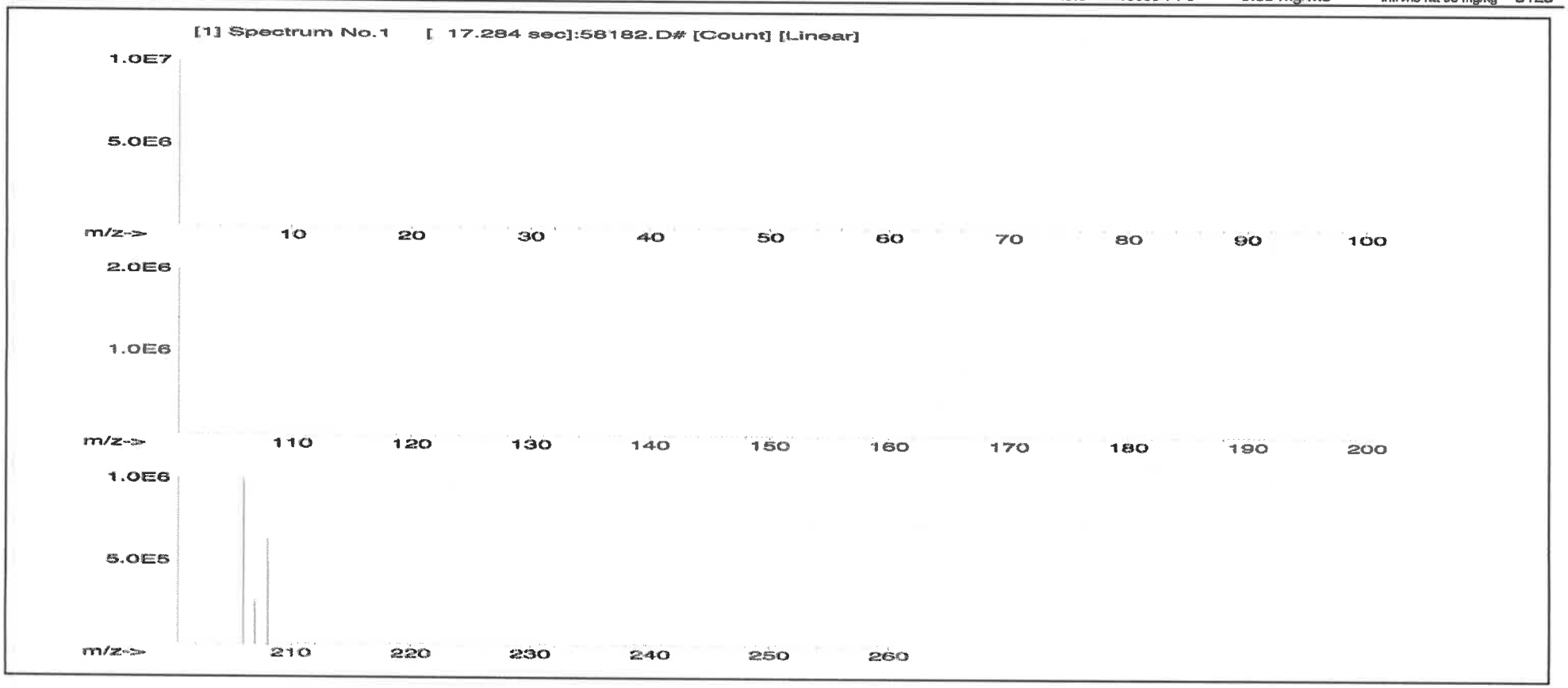
Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

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



845

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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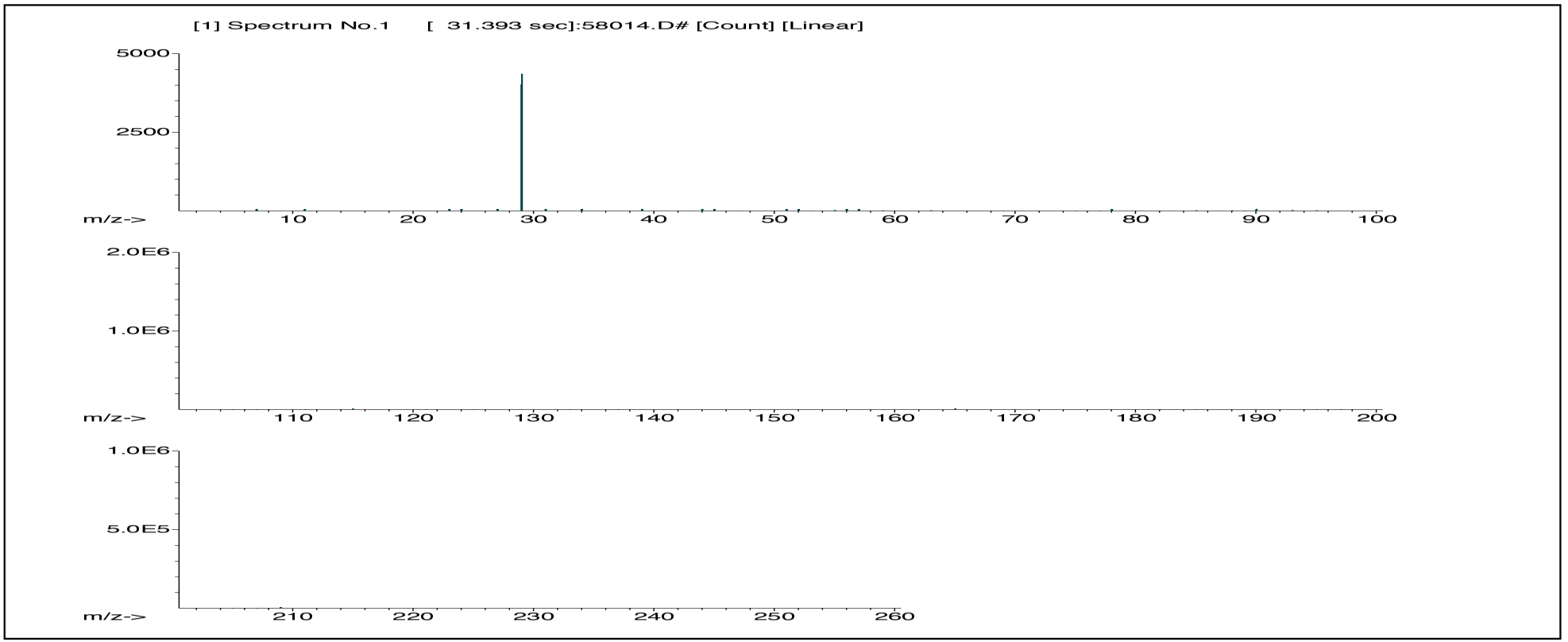
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57014**	19410105	Nitric Acid	
Lot Number:	**030921**			
Description:	**Silicon (Si)**			
		2.0%	60.0	Nitric Acid
Expiration Date:	030924		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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 030921
Reviewed By:	Pedro L. Rentas 030921

846

	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 hexafluorosilicate (Si)	58114	070120	0.1000	300.0	0.084	1000	10000.0	**1000.0**	**2.1**	16919-19-0	2.50 mg/m3	orl-rat 70 mg/kg	NA



847

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	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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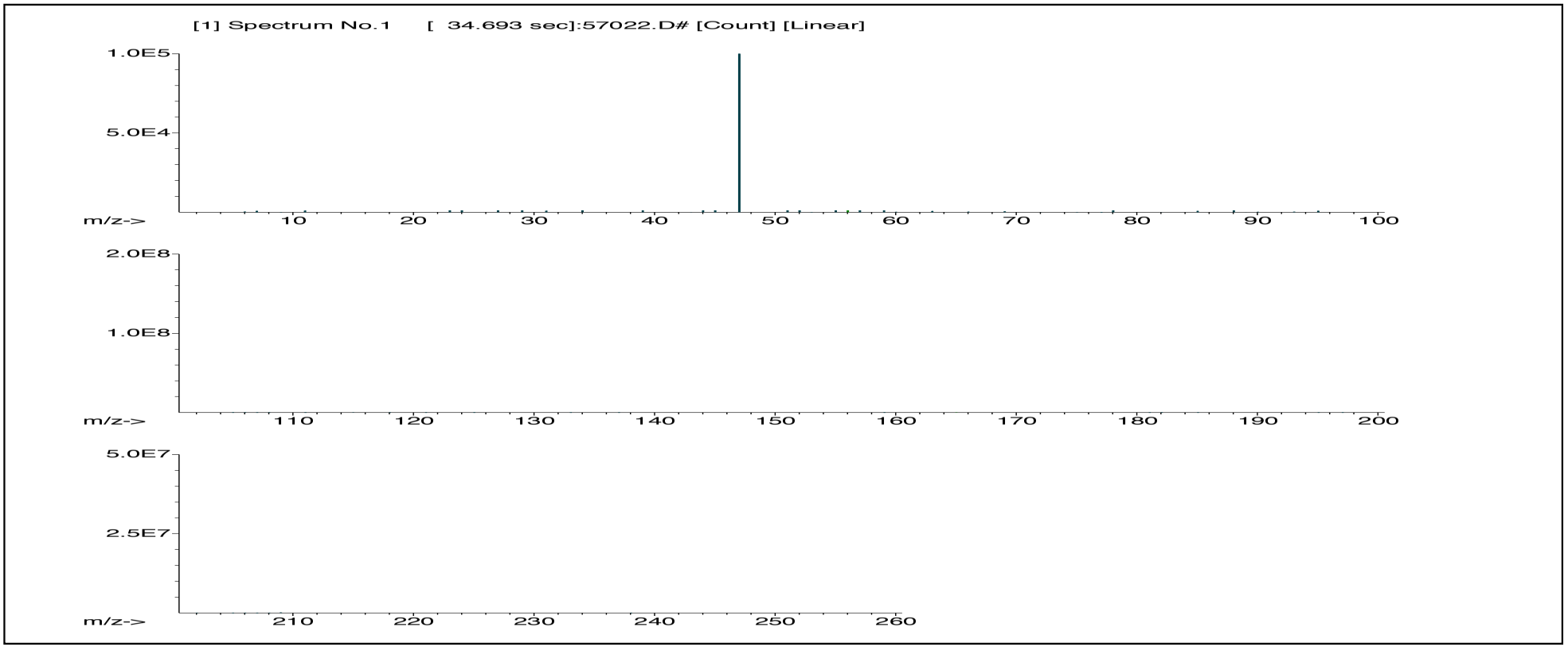
848

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	070724		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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	070721
Reviewed By:	Pedro L. Rentas	070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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 hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



849

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<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	T	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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Certified Reference Material CRM

M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

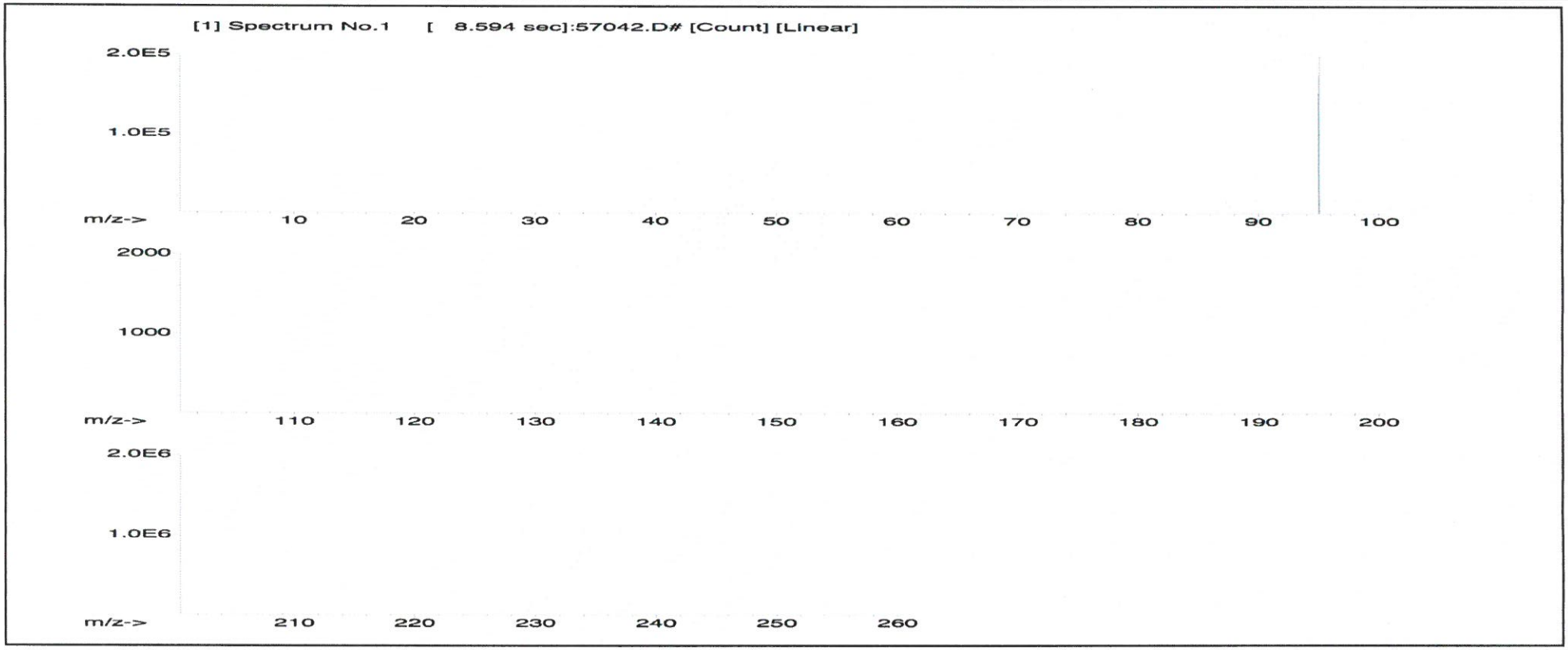
Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 051722
Reviewed By: Pedro L. Rentas 051722

850

	Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1.	Ammonium molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



851

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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.
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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

M5288 R: 07/21/2022

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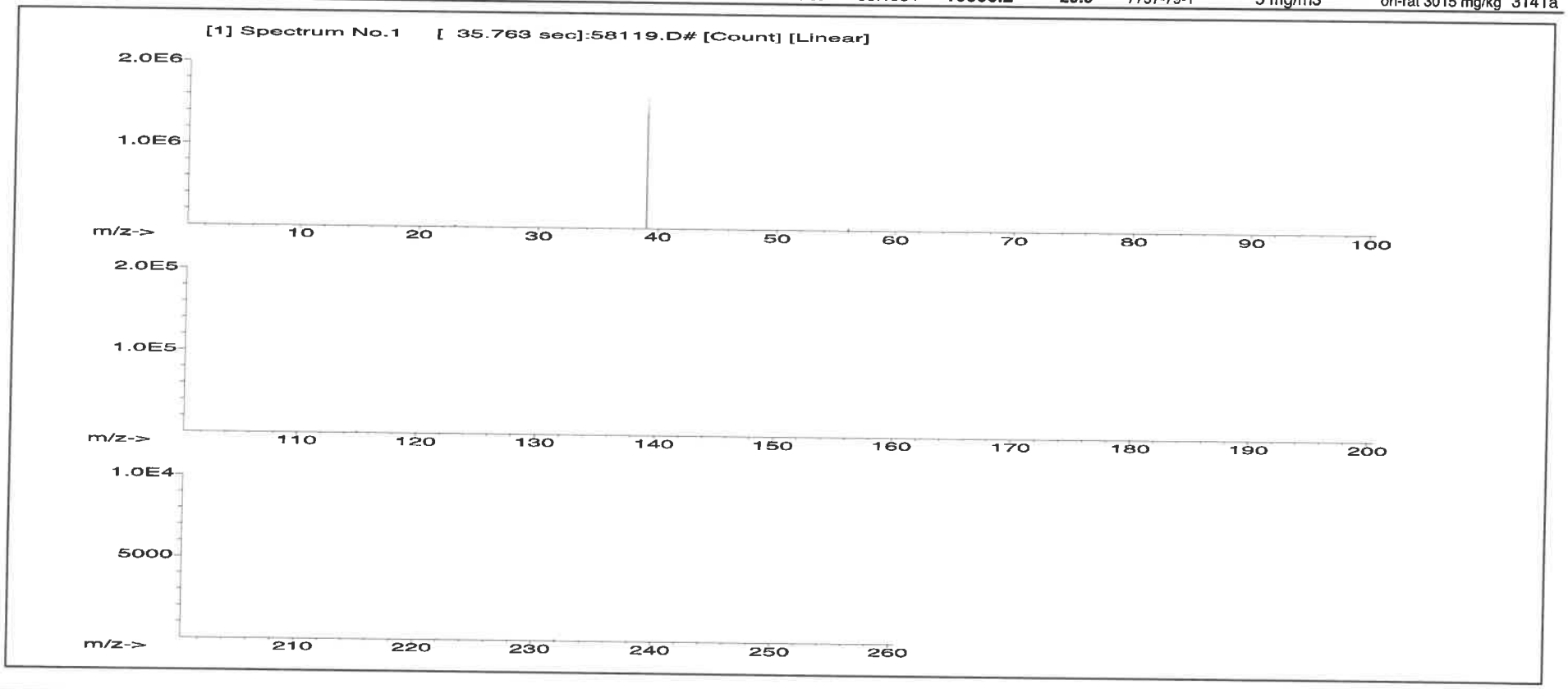
852

CERTIFIED WEIGHT REPORT:

Part Number:	**58119**		**Lot #**		
Lot Number:	**071122**	**Solvent:**	20510011	Nitric Acid	
Description:	**Potassium (K)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	071125				
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	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



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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M5289 R: 07/12/22 (84)

Certified Reference Material CRM

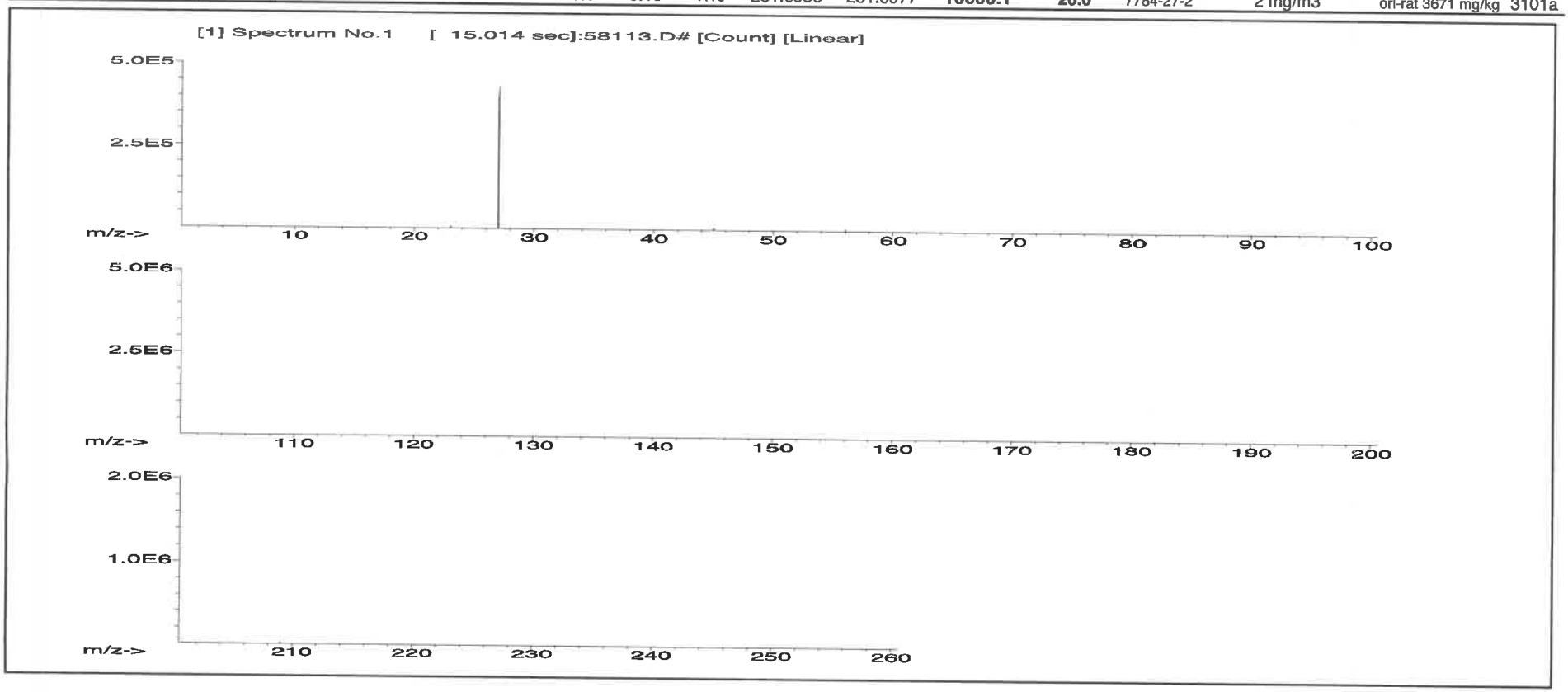
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CERTIFIED WEIGHT REPORT:

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.

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SJ 6/15/22

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CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

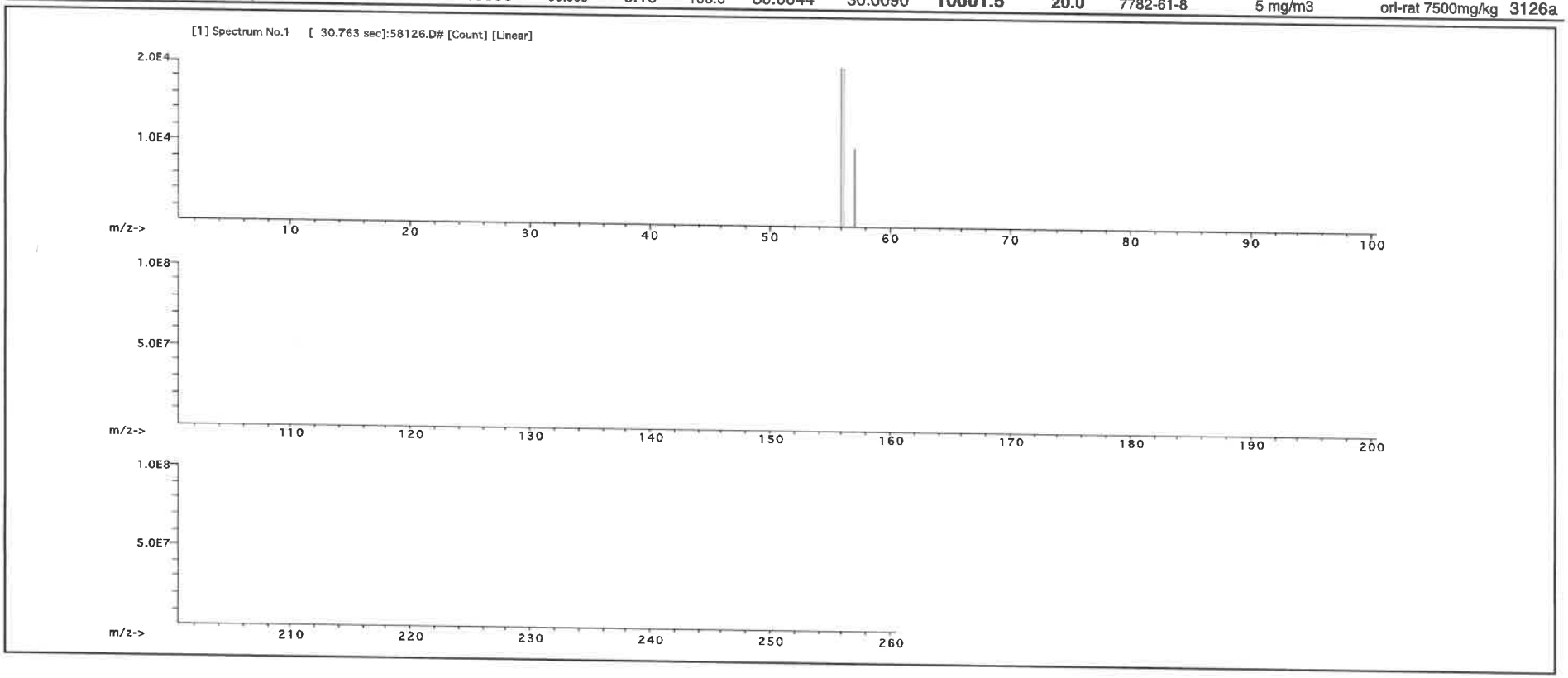
Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	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
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



856

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:



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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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857

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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:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5496 R 7/20/23

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862

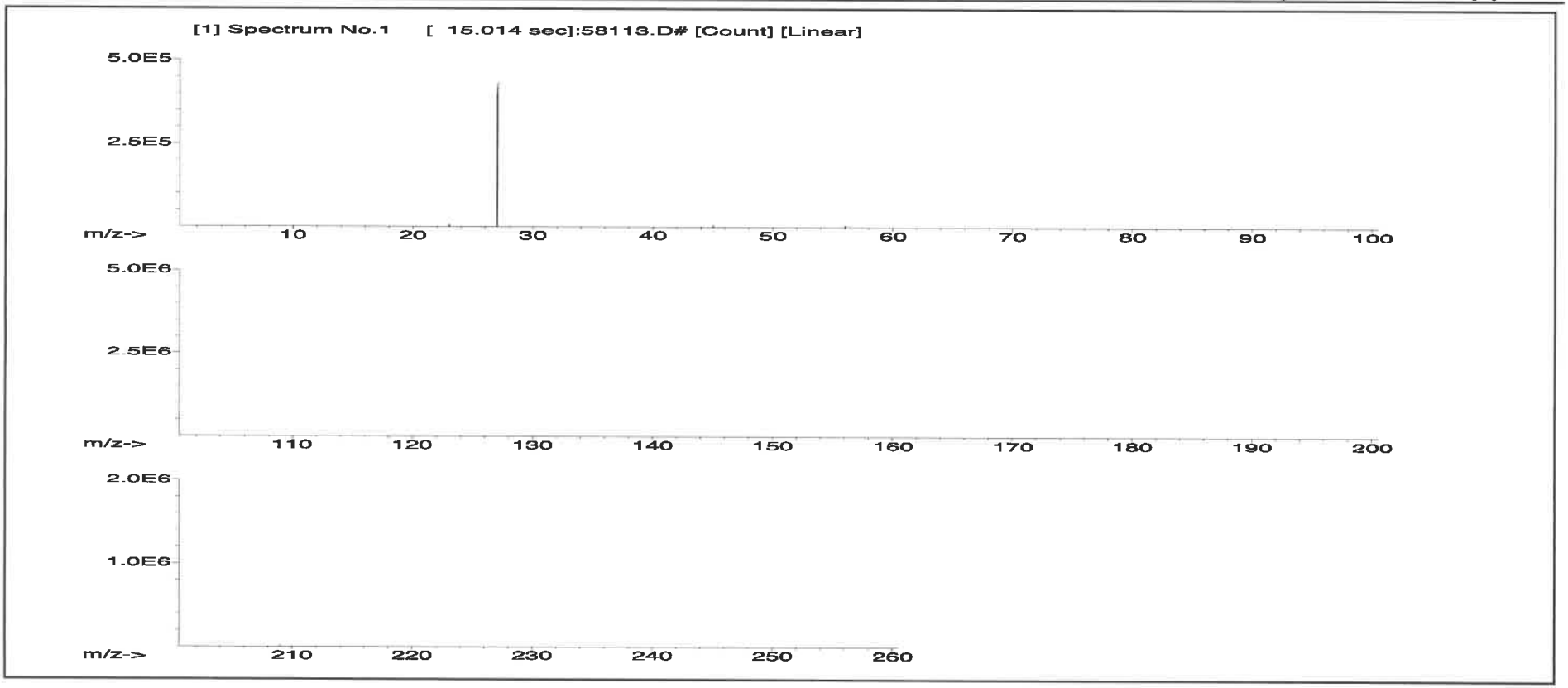
CERTIFIED WEIGHT REPORT:

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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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

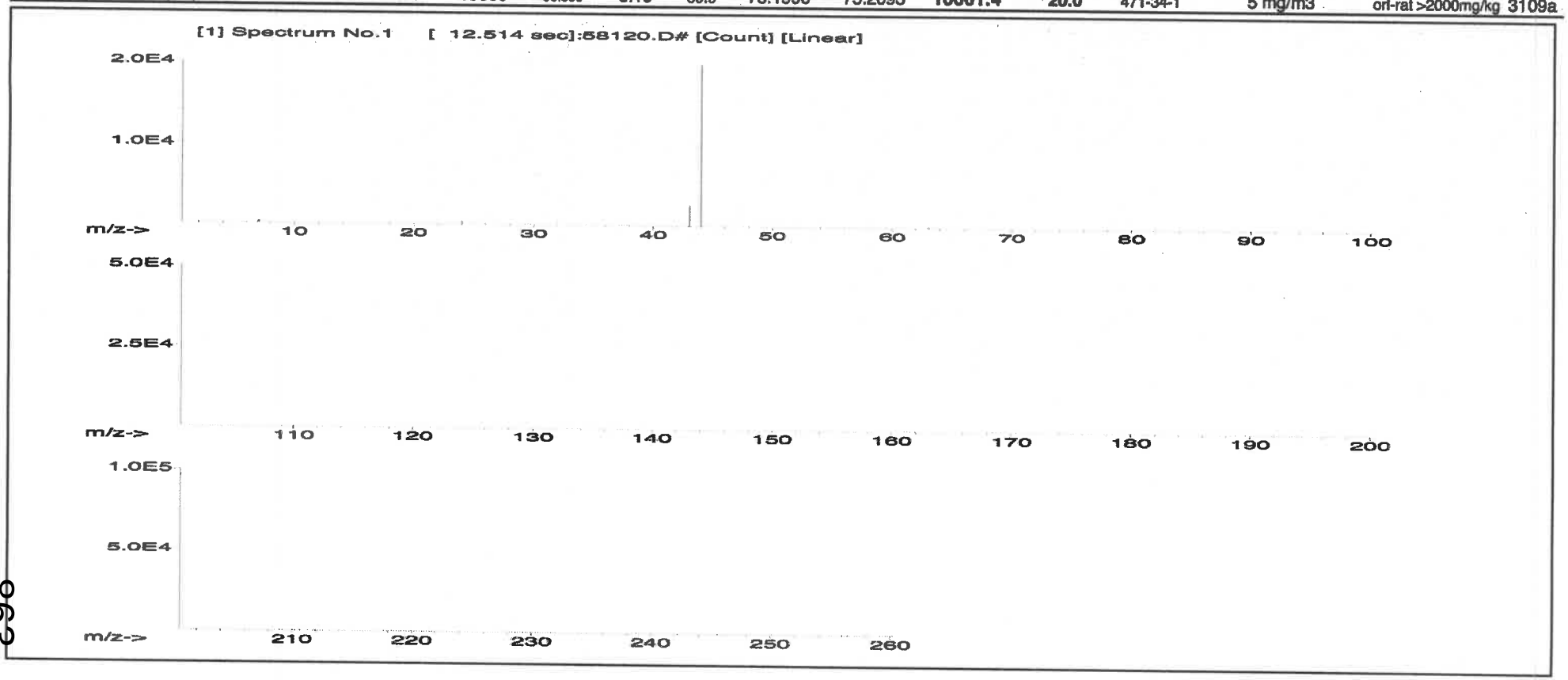
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance 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



863

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).

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IN5497 - IN5498 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 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

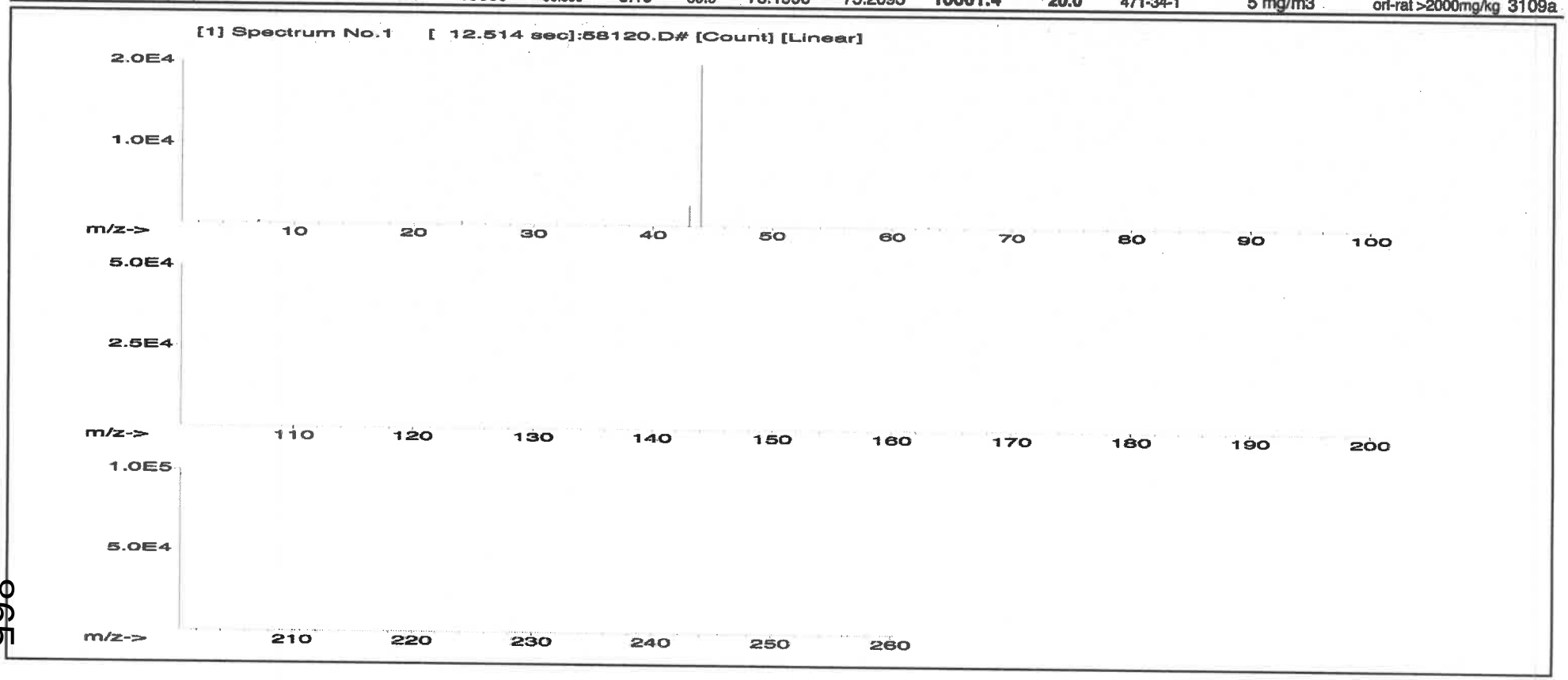
5E-05 Balance Uncertainty

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



865

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).
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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 Reference Material CRM

MS513 R:03/17/23 BE

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

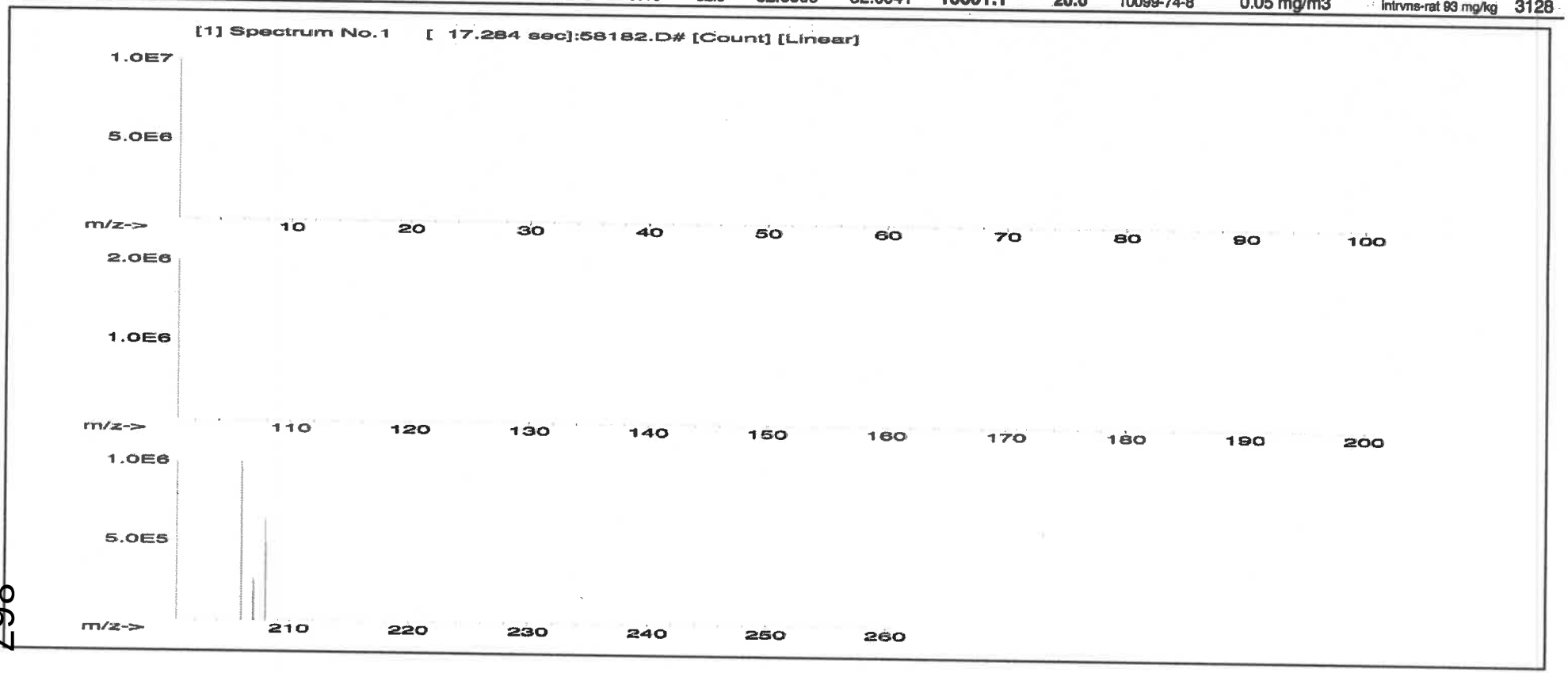
Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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



867

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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* 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

M516 M517 R: 03/17/22 BH

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CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 022123
Description: Sodium (Na)

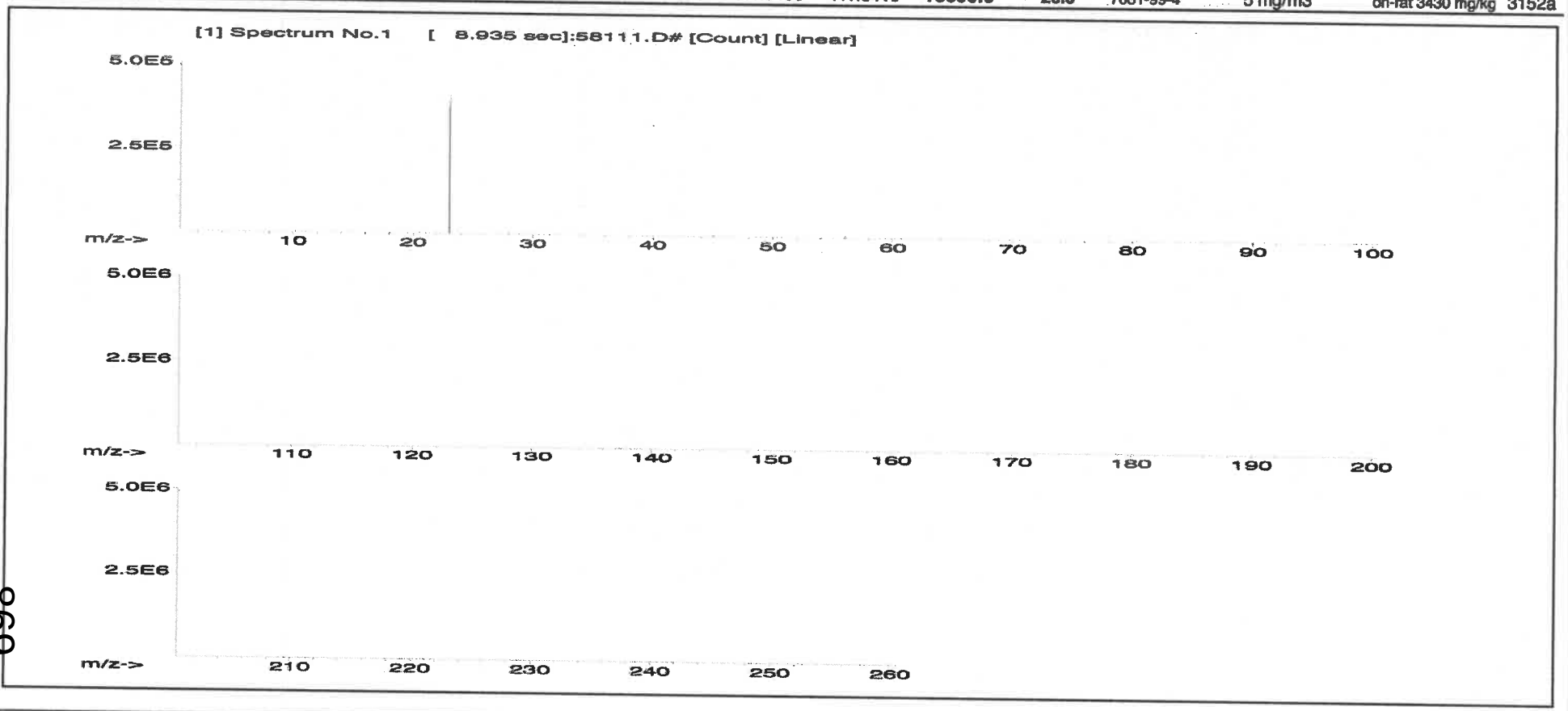
Expiration Date: 022126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41 0.06 Flask Uncertainty

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance 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



698

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.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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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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Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

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871

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

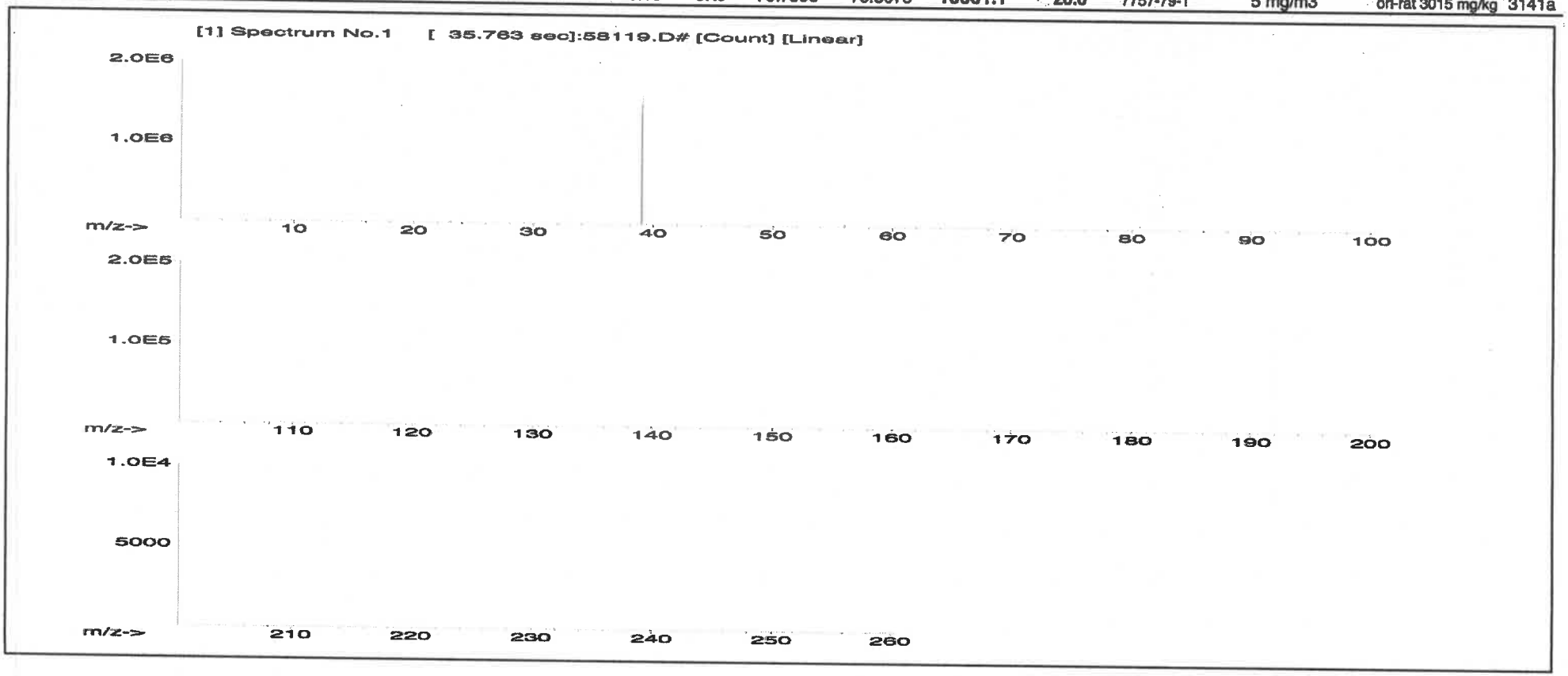
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
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



872

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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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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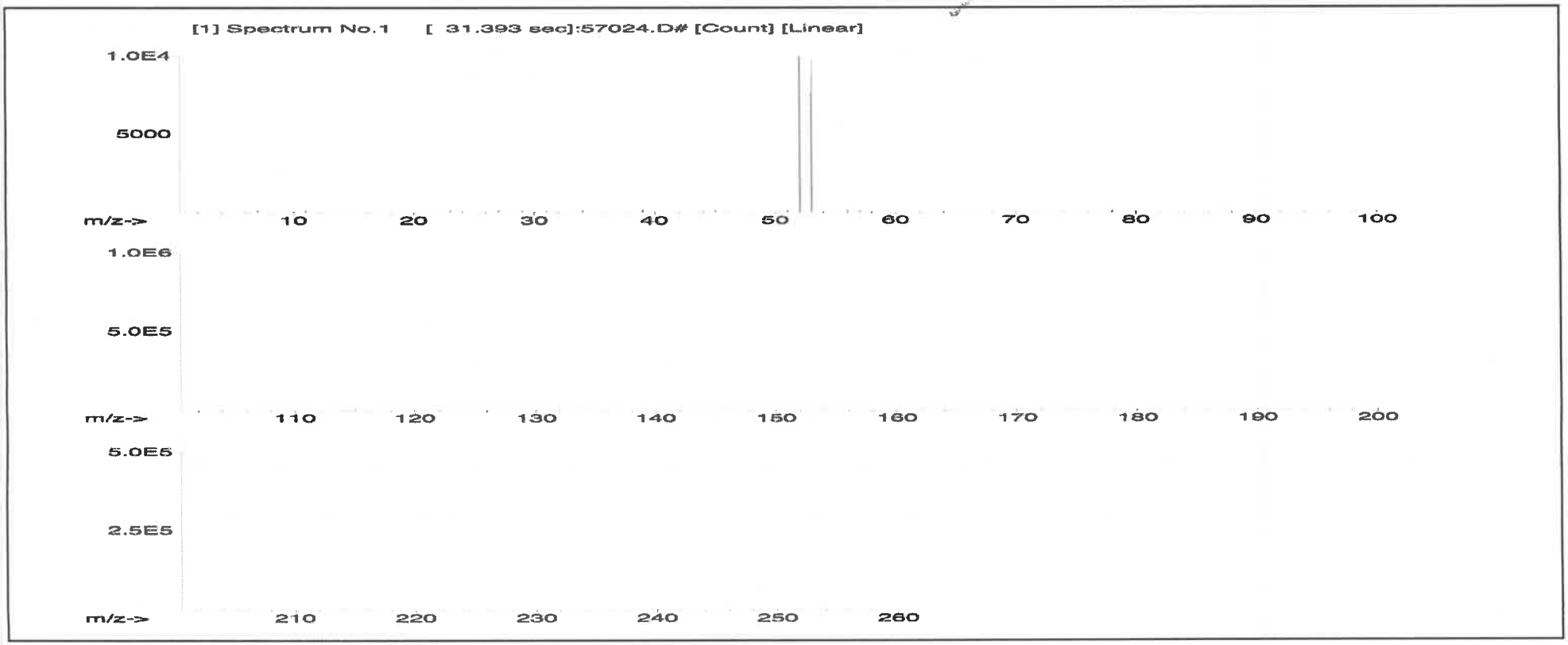
873

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



874

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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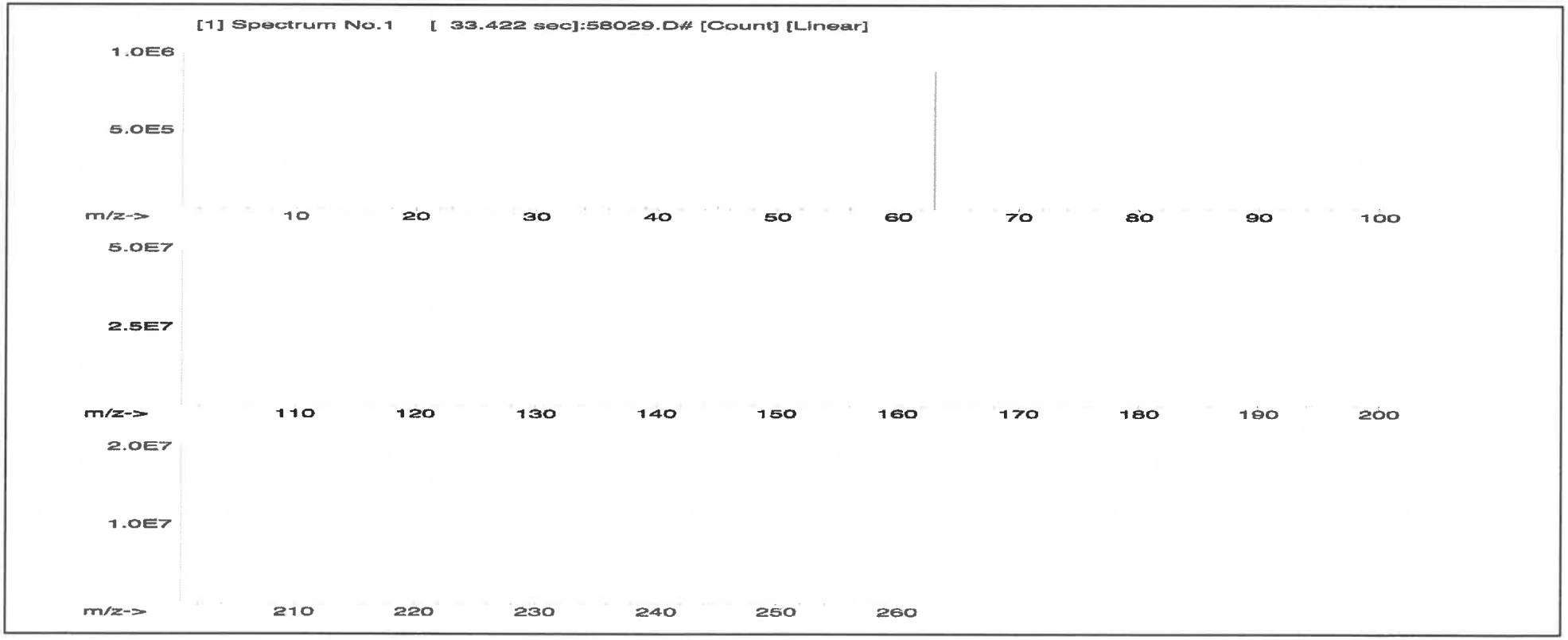
875

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



876

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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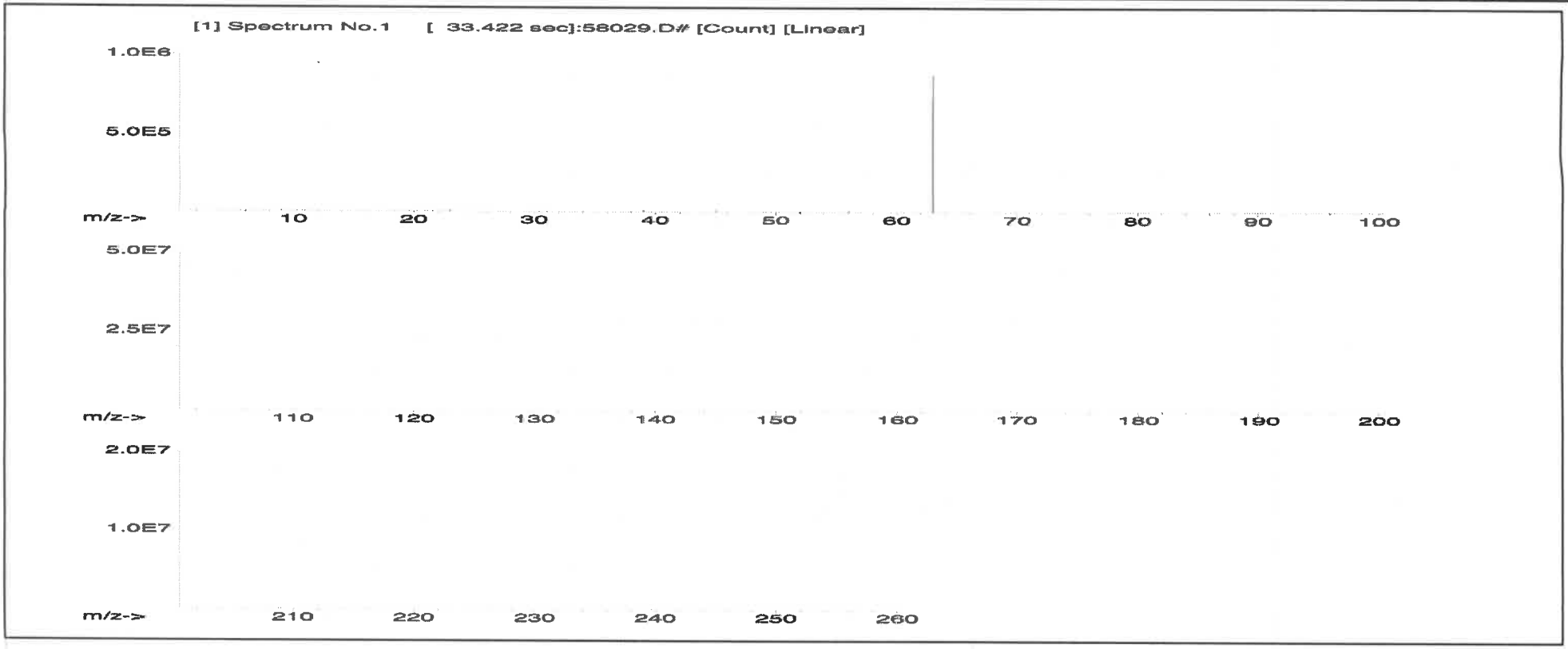
877

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



878

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:

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M5768 M5769 (BP) R:1/3/24

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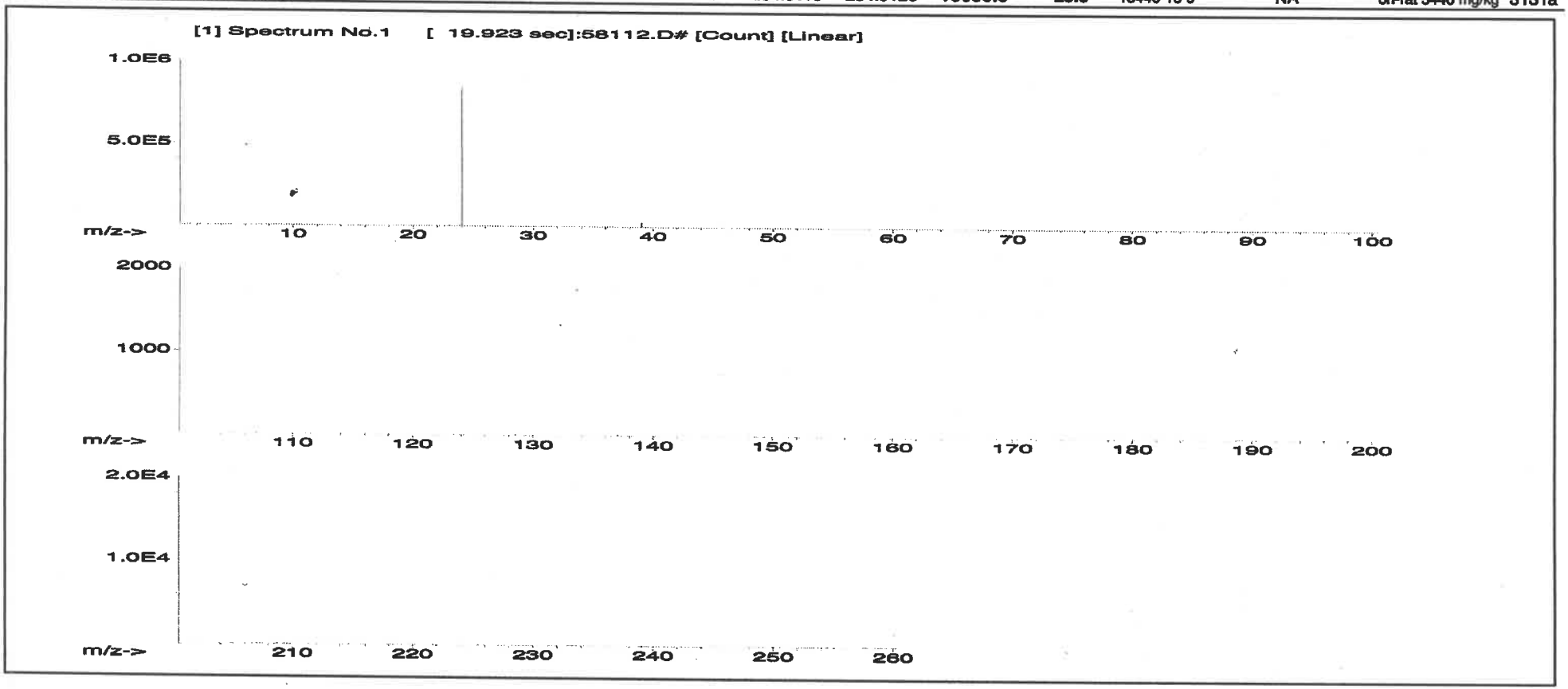
879

CERTIFIED WEIGHT REPORT:

			Lot #	
Part Number:	**58112**	**Solvent:**	24002546	Nitric Acid
Lot Number:	**091823**			
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	091826			
Recommended Storage:	Ambient (20 °C)	M5768, M5769 (BP) R: 1/3/24		
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	091823
Reviewed By:	Pedro L. Rentas	091823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9118	234.9126	**10000.0**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



088

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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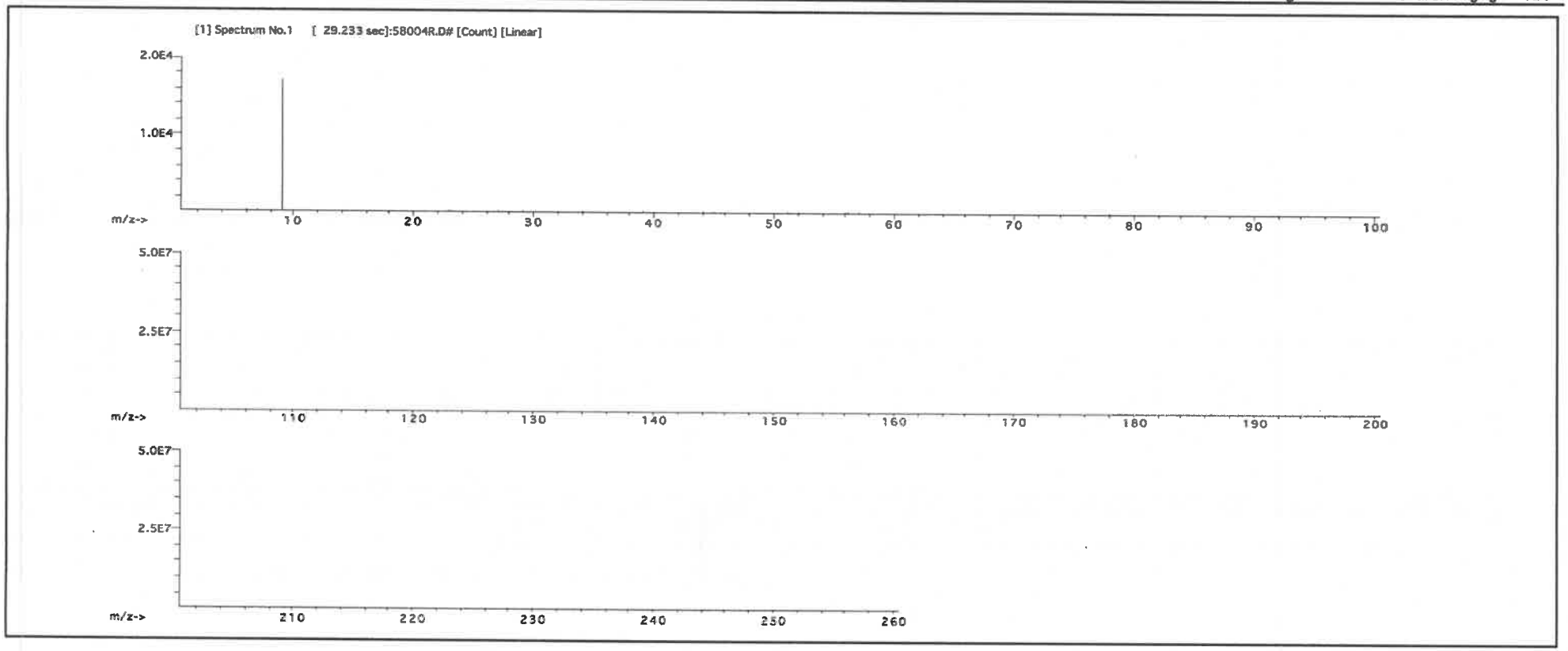
881

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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R? 02/09/24 IV15799 BA

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883

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

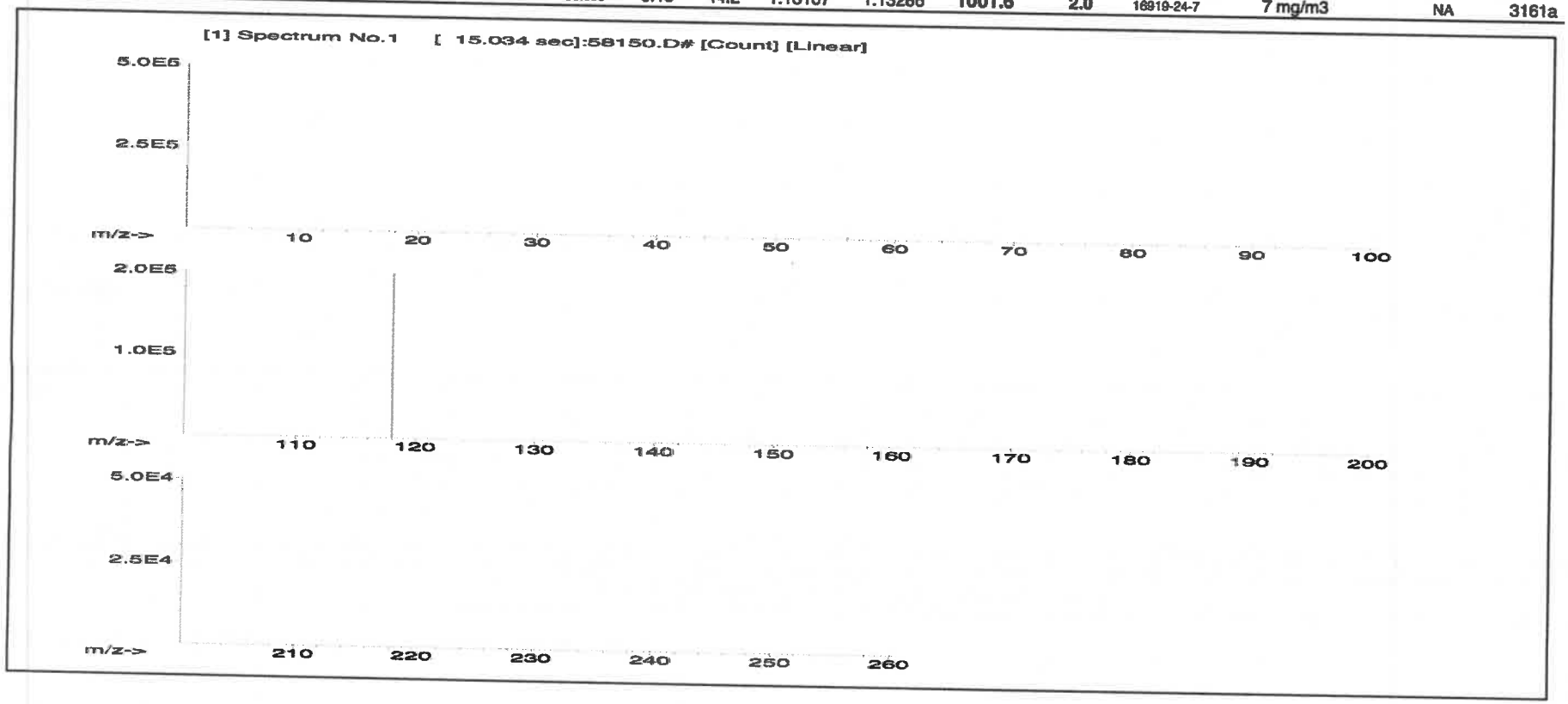
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



884

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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* 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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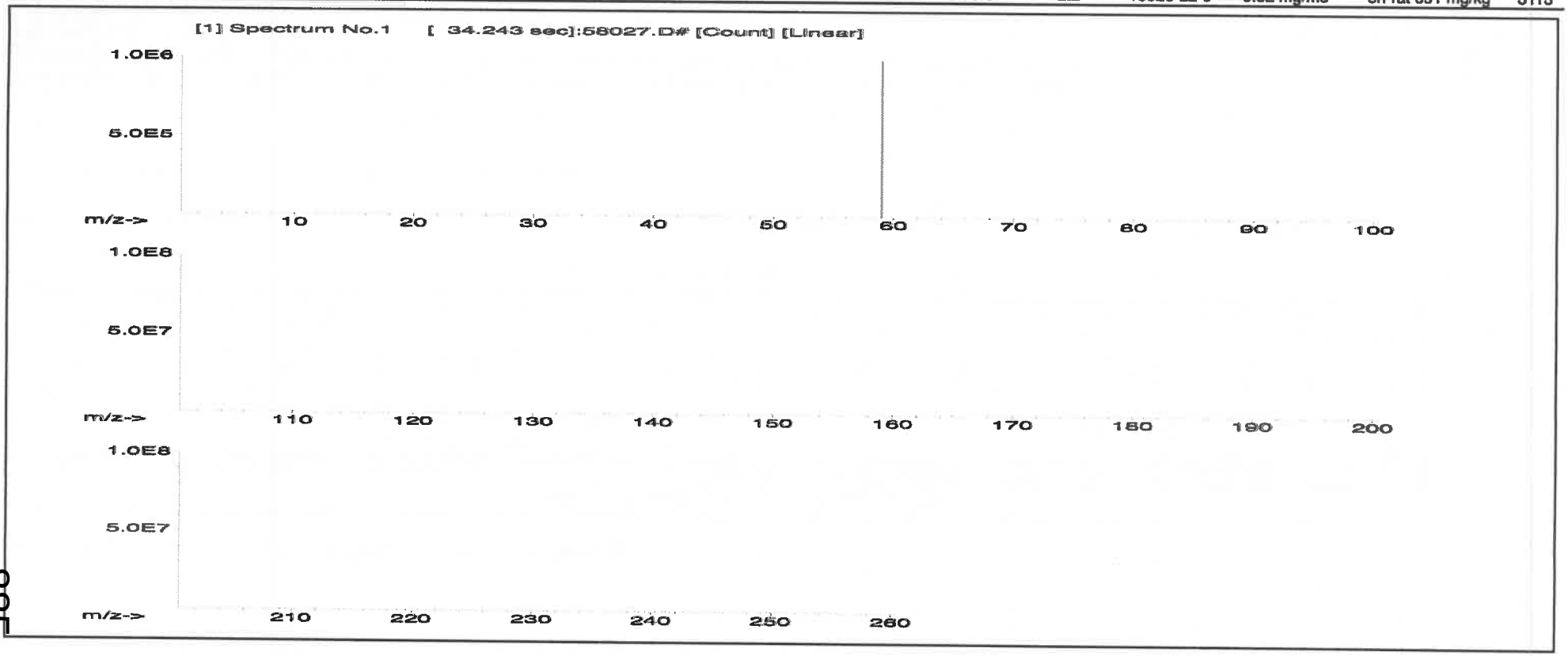
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CERTIFIED WEIGHT REPORT:

		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



885

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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* 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).

988

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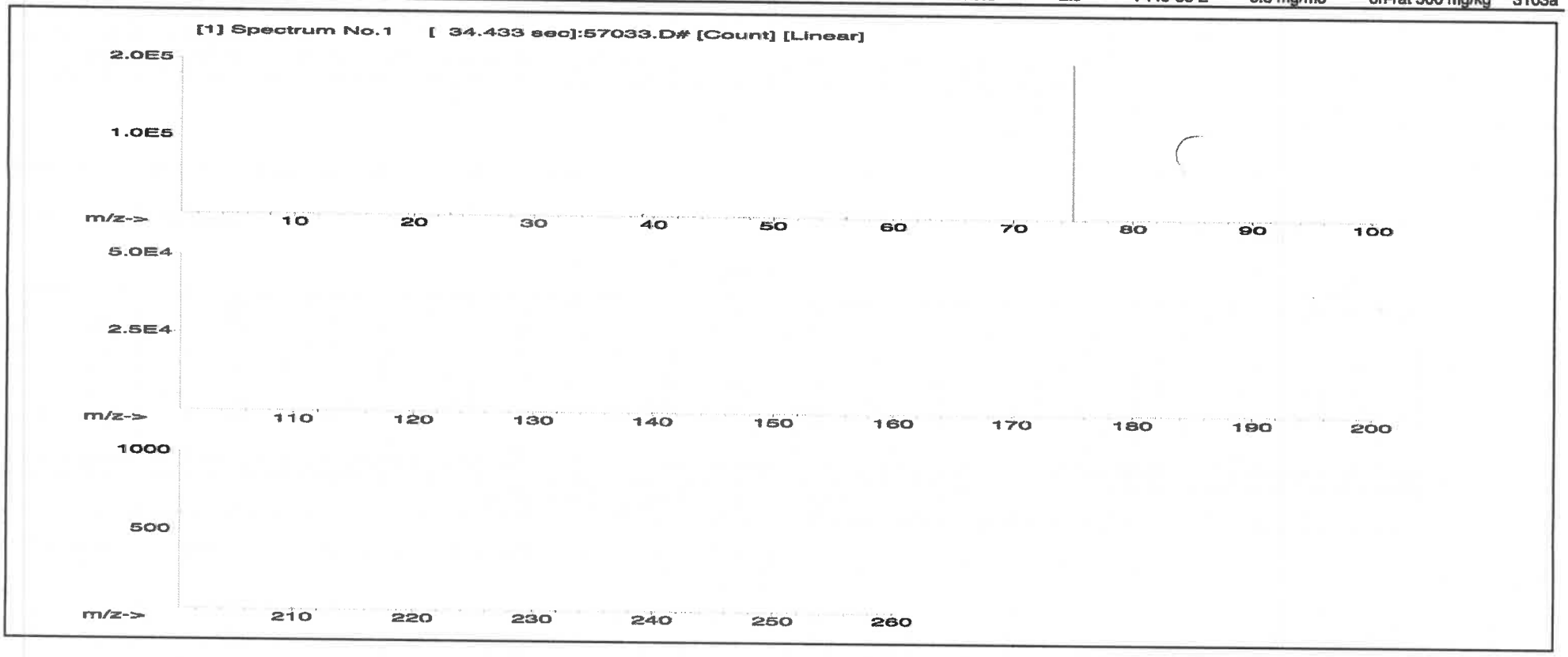
887

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



888

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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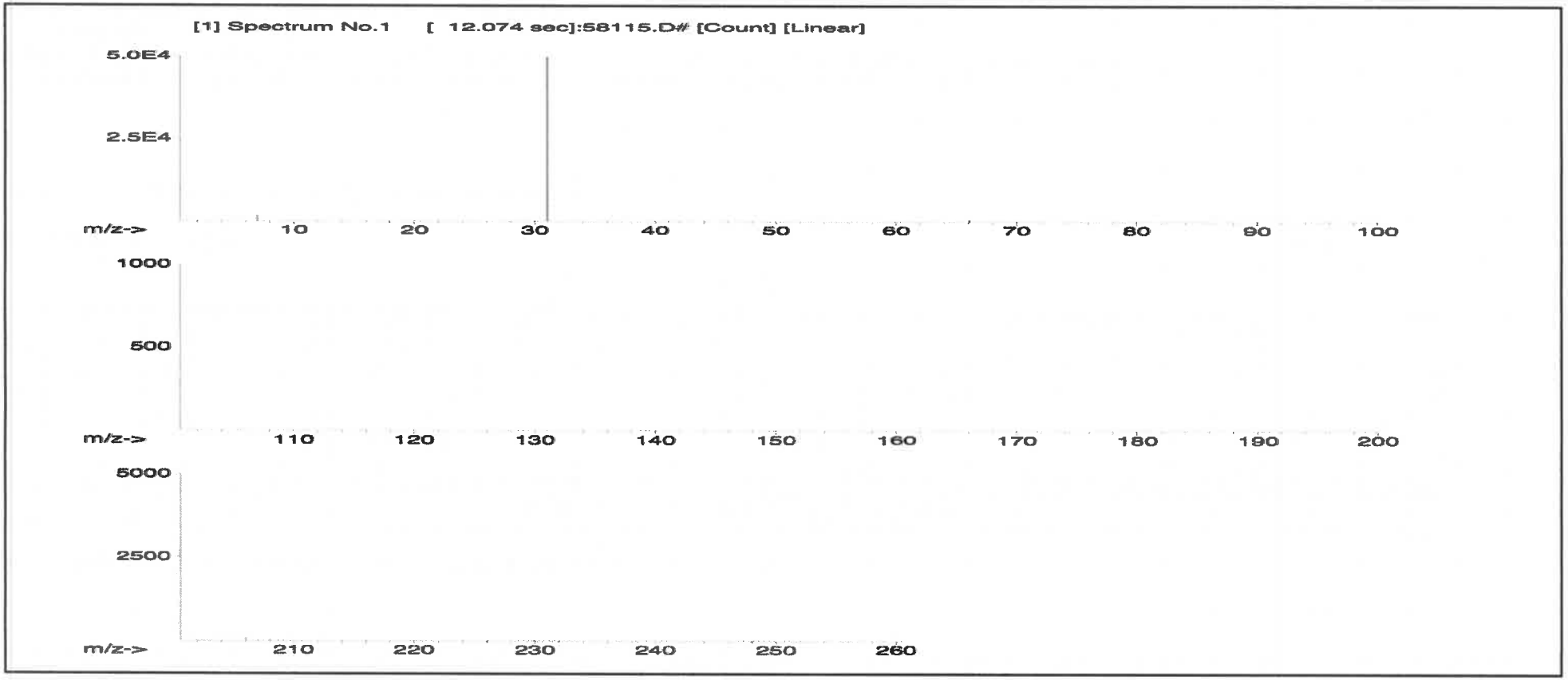
CERTIFIED WEIGHT REPORT:

			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

889

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.

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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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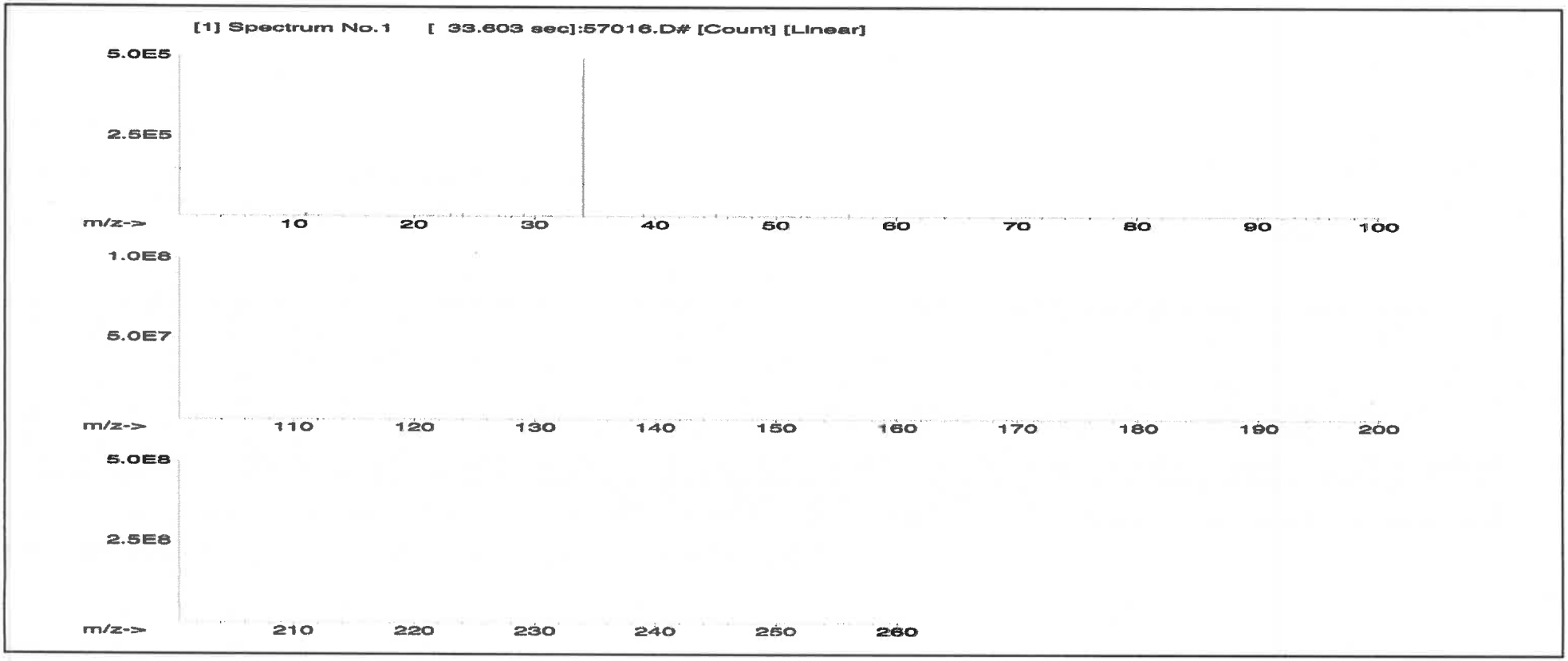
891

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



892

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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893

CERTIFIED WEIGHT REPORT:

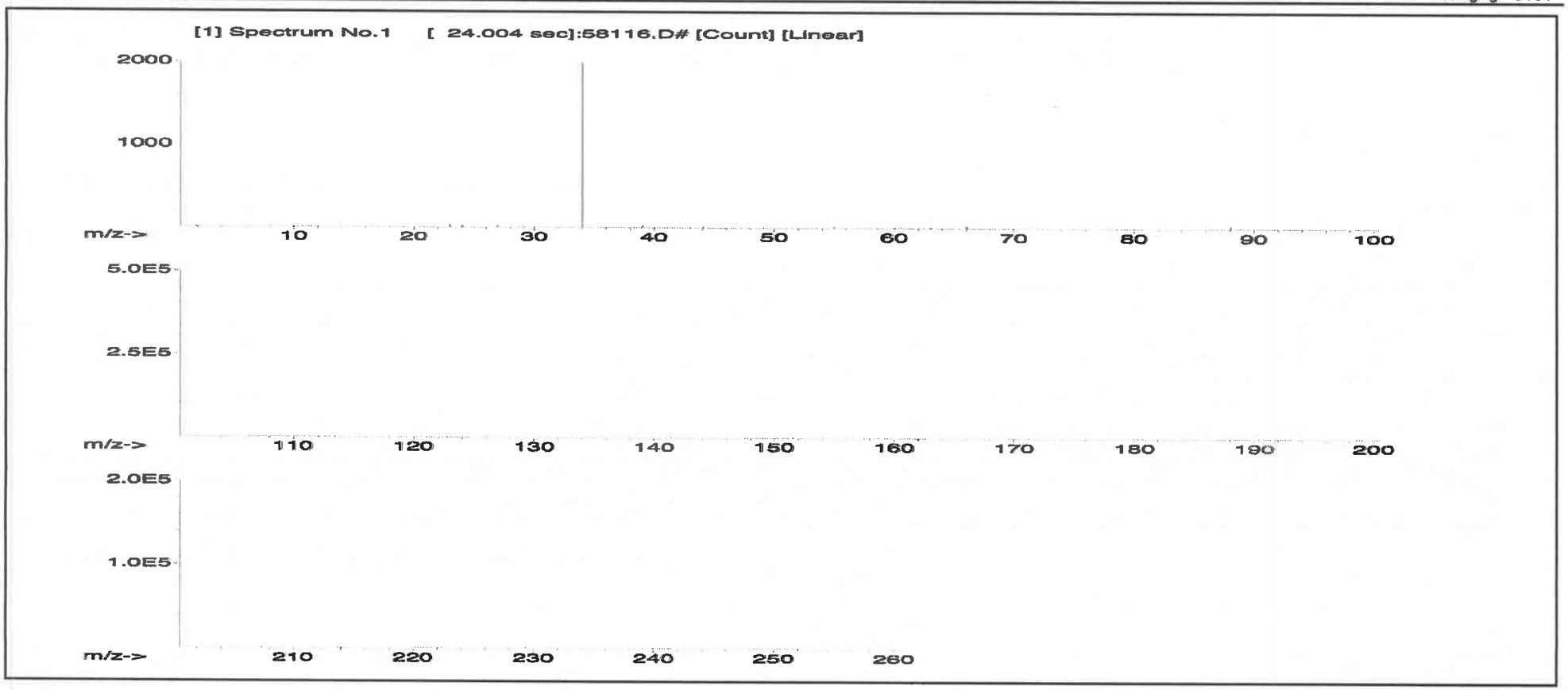
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	orl-rat 4250mg/kg	3181



894

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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895

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

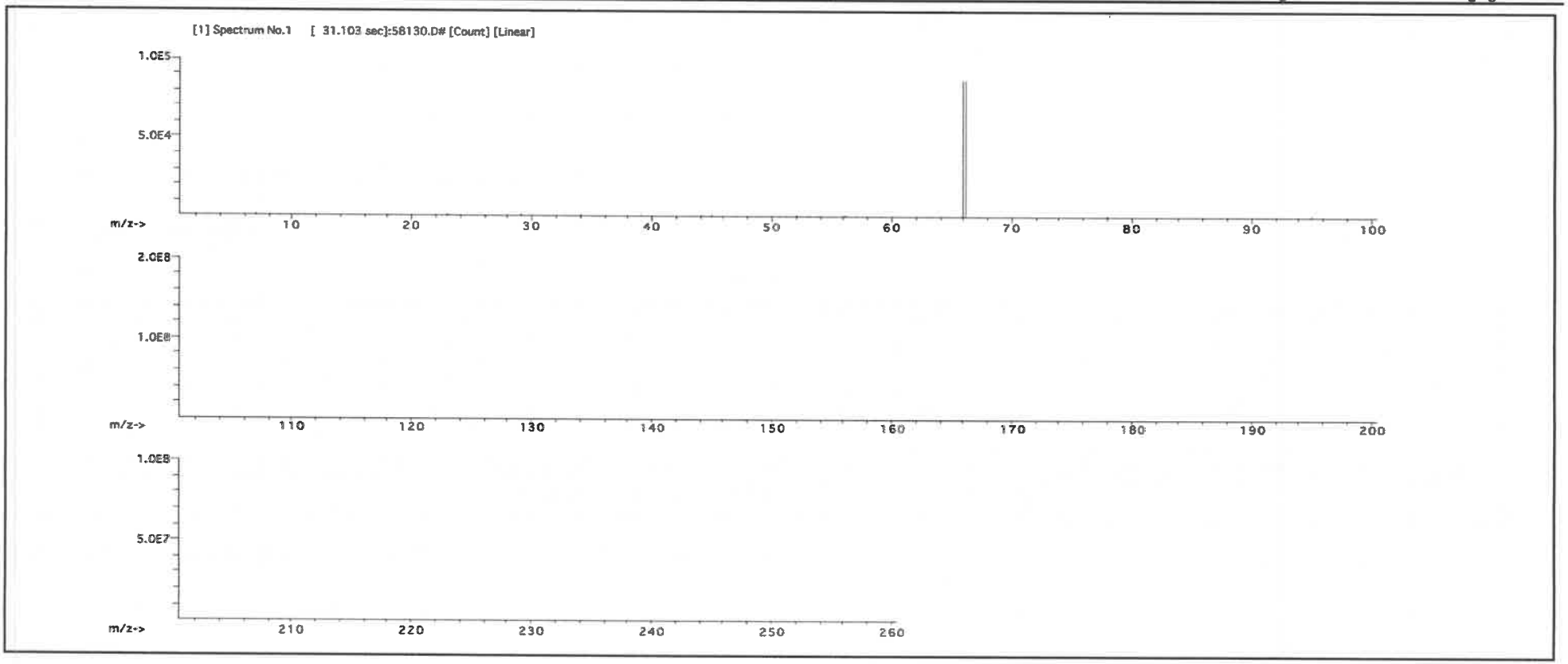
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

	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:

* 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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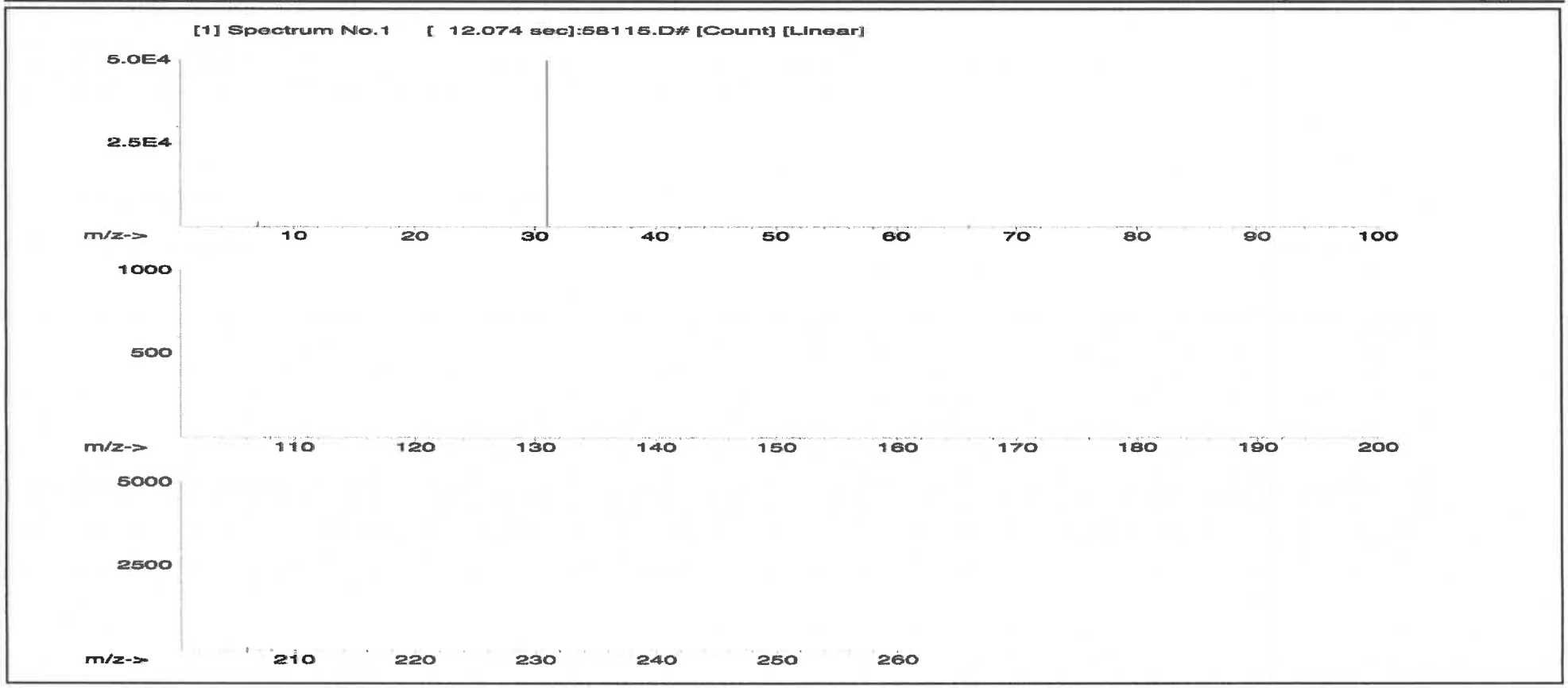
897

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



868

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.

* 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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* 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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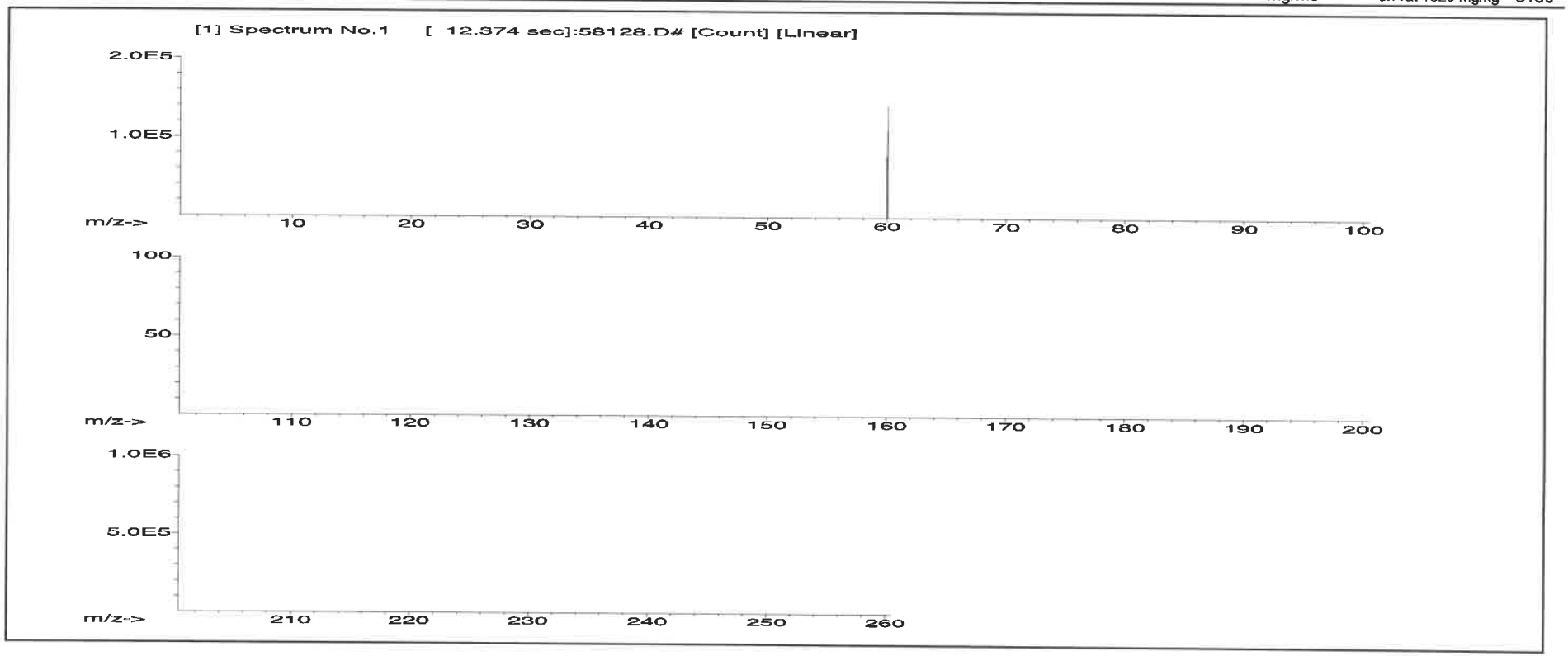
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CERTIFIED WEIGHT REPORT:

Part Number:	**57028**		**Lot #**		
Lot Number:	**041124**	**Solvent:**	24002546	Nitric Acid	
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



668

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	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	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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* 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).

006

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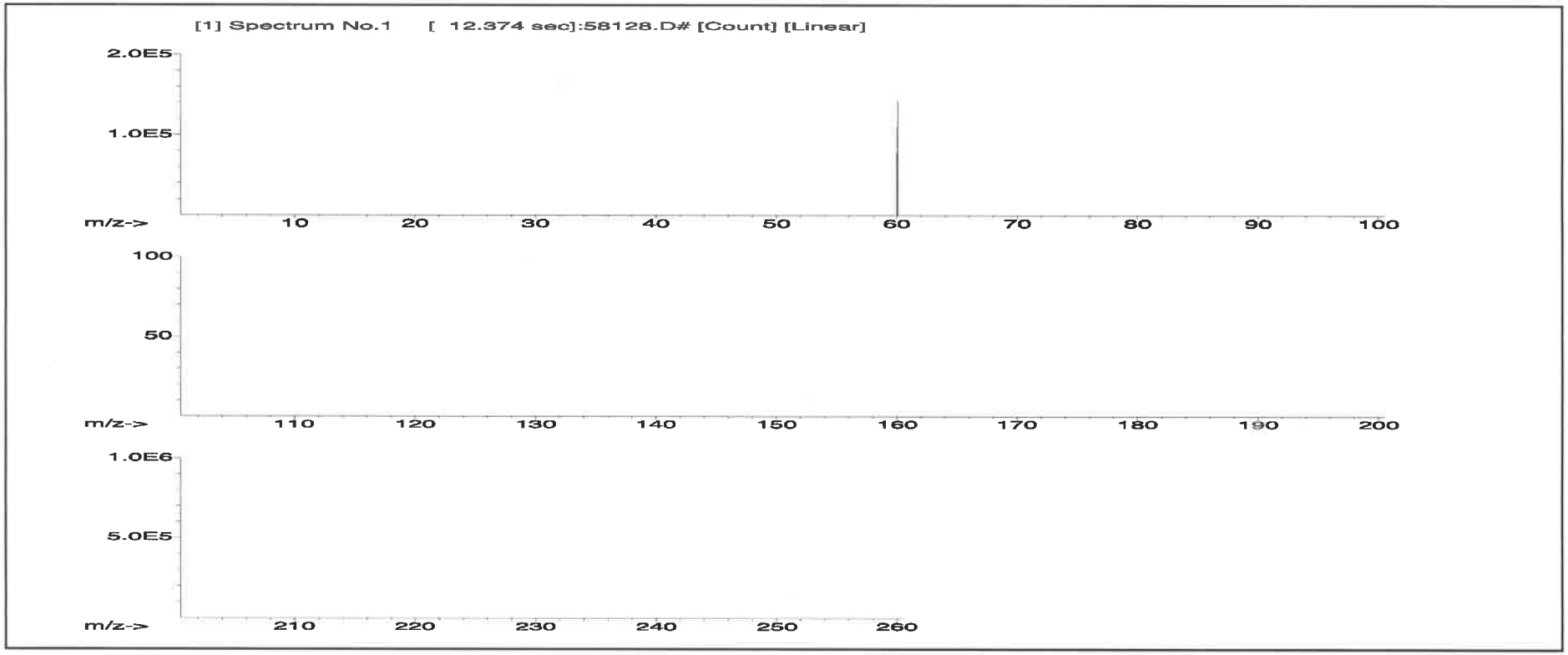
901

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



902

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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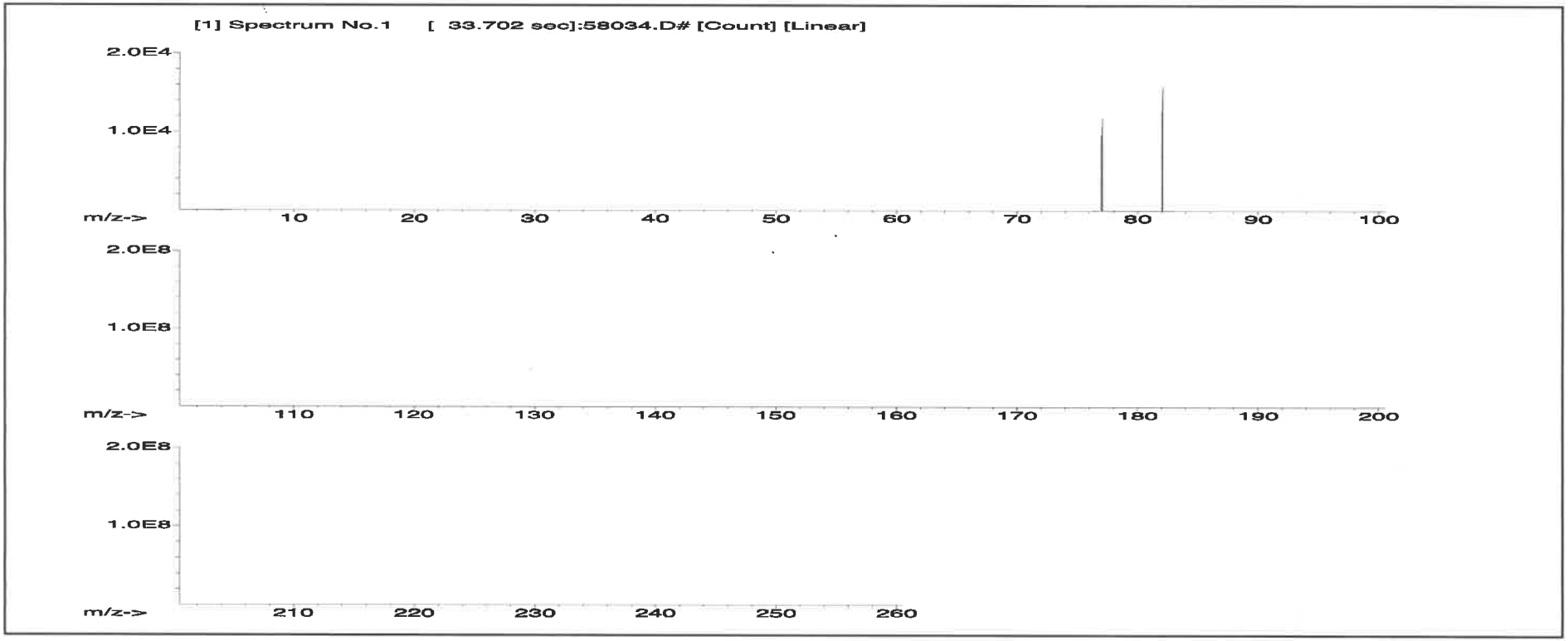
903

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



904

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.
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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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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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M5978, M5979

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

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- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57092**	24002546	Nitric Acid		
Lot Number:	**060724**				
Description:	**Uranium (U)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	060727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

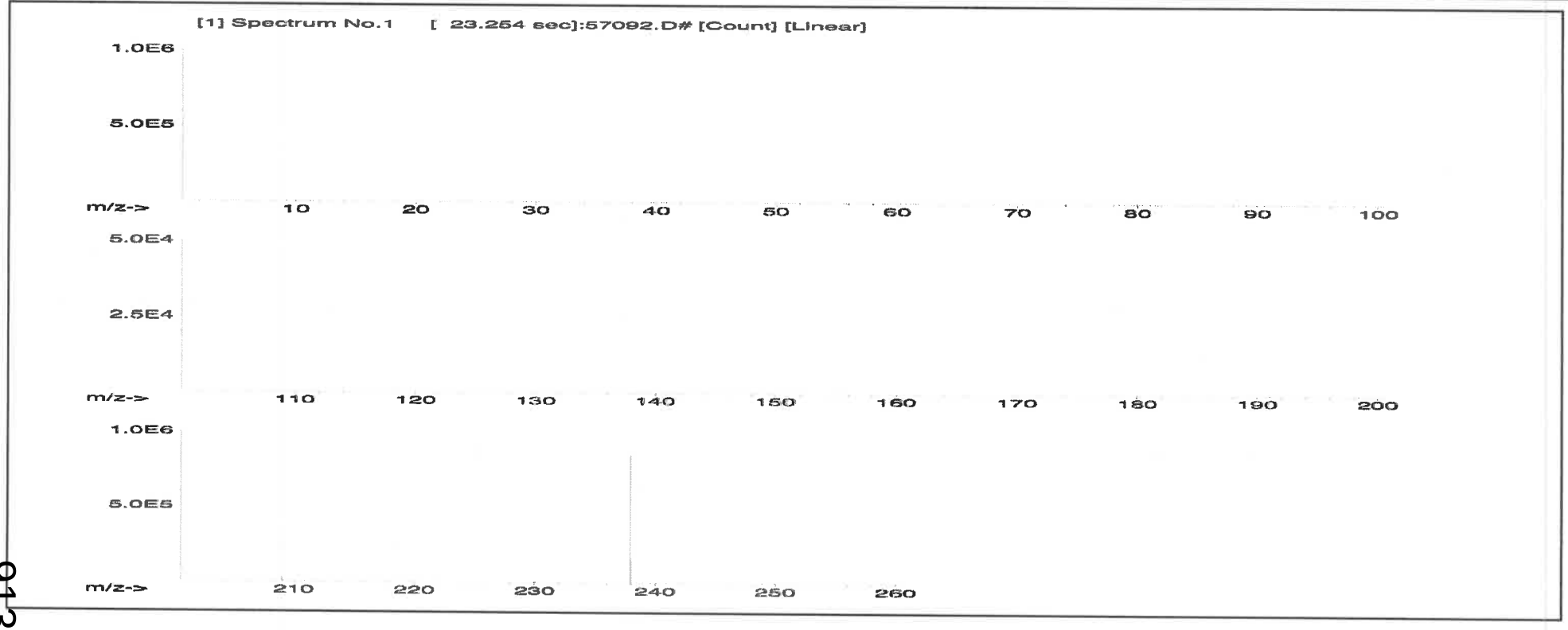
Giovanni Esposito

Formulated By:	Giovanni Esposito	060724

Pedro Rentas

Reviewed By:	Pedro L. Rentas	060724

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Uranyl nitrate hexahydrate (U)	58192	041524	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13520-83-7	0.05 mg/m3	orl-rat 1040 mg/kg	3164



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	T
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5983 R: 6/11/24

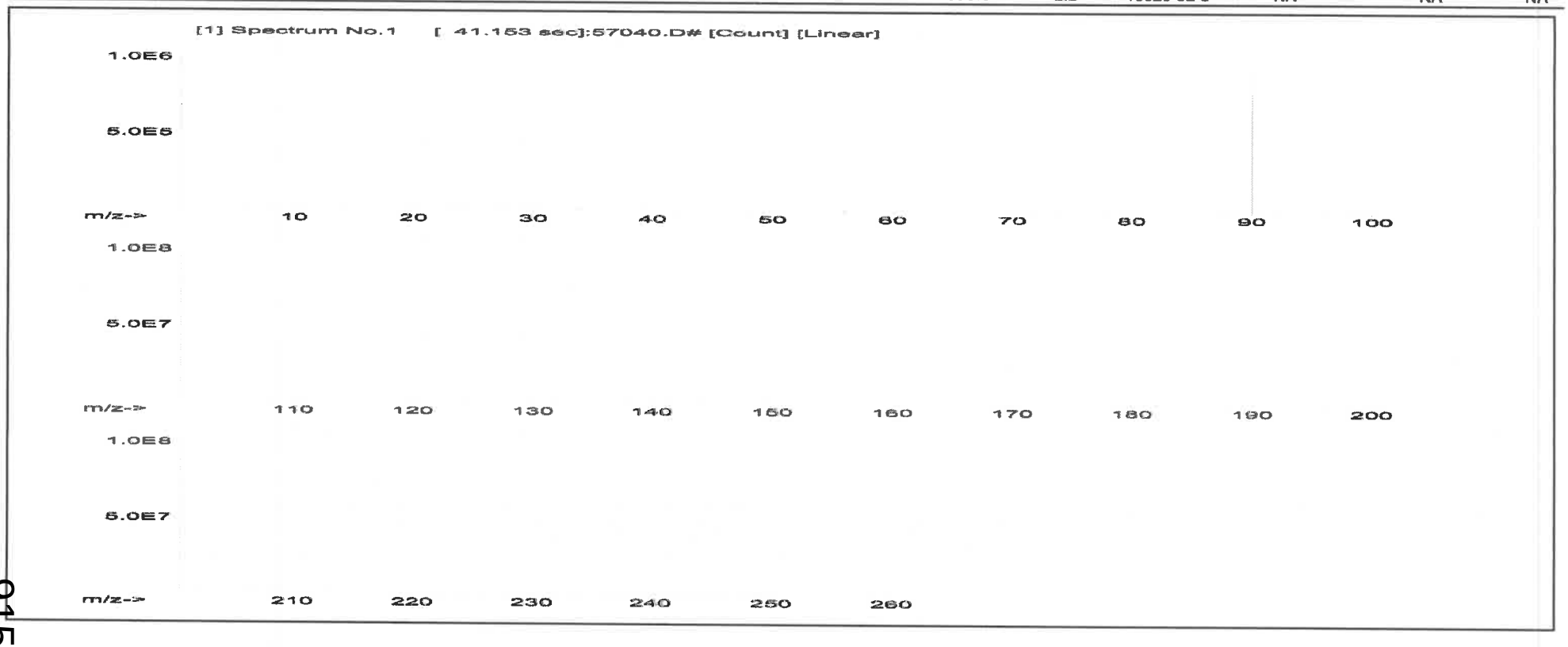
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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M5999

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

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



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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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



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6079 R: 9/30/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

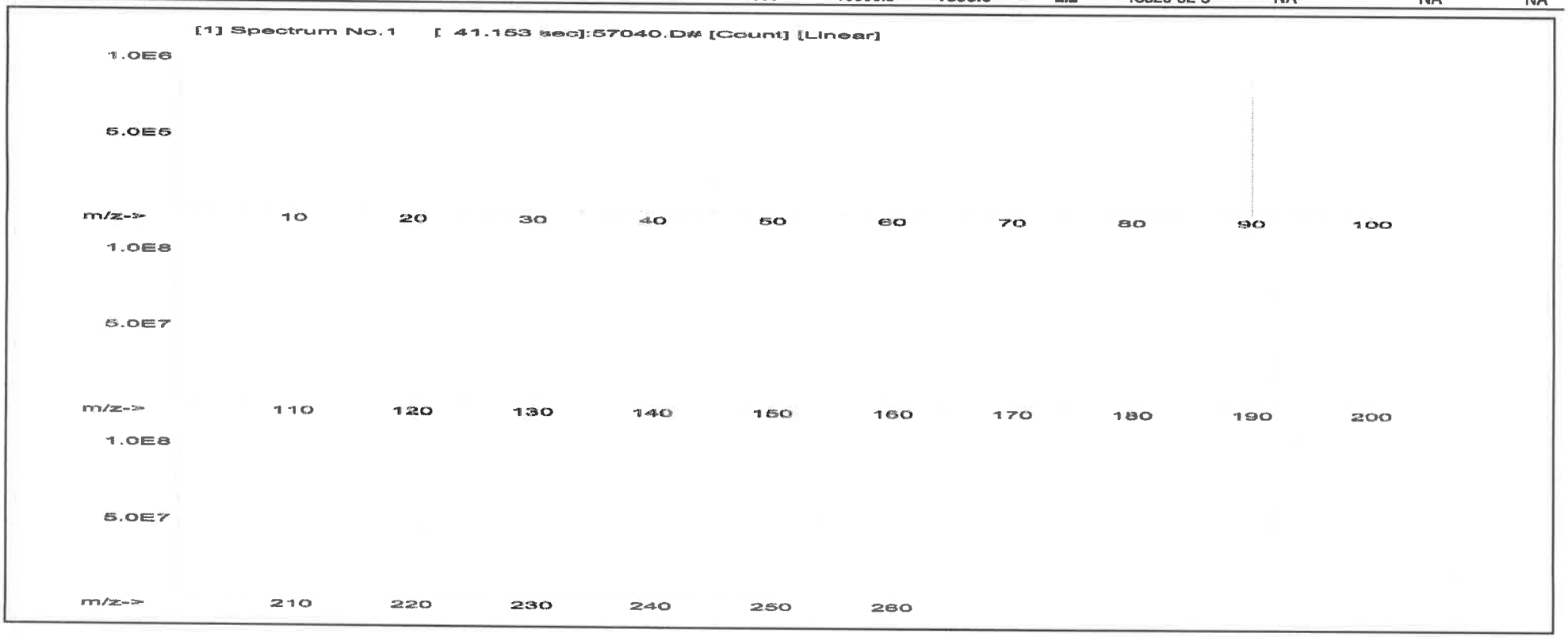
925

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).

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 6/21

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

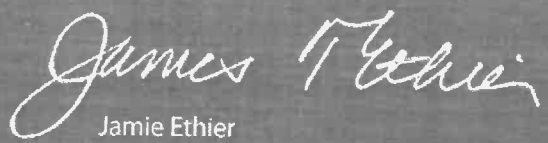
927

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

928

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

M6126

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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931

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

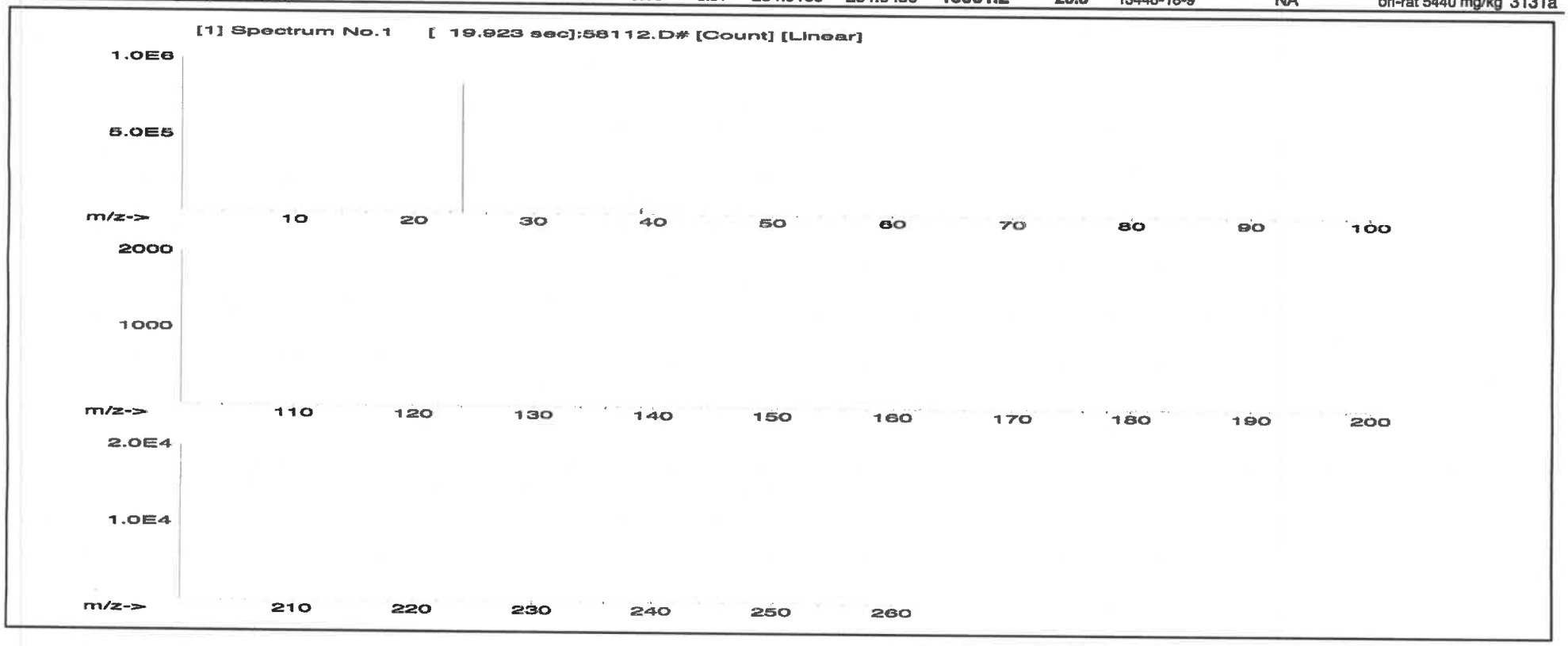
M 6127

			Lot #	
Part Number:	**58112**	**Solvent:**	24012496	Nitric Acid
Lot Number:	**112124**			
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



932

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* 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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933

CERTIFIED WEIGHT REPORT:

R->1/13/28

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	

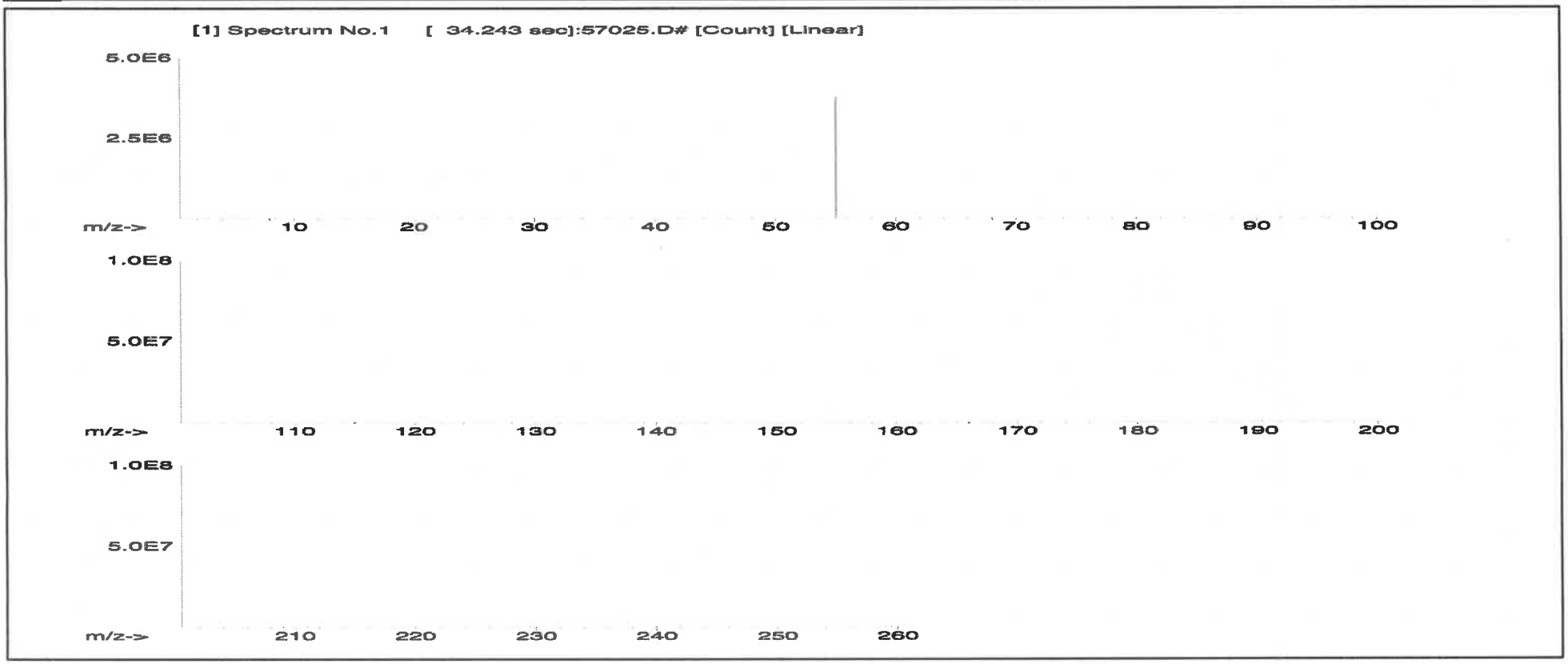
Giovanni Esposito

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



934

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:

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935

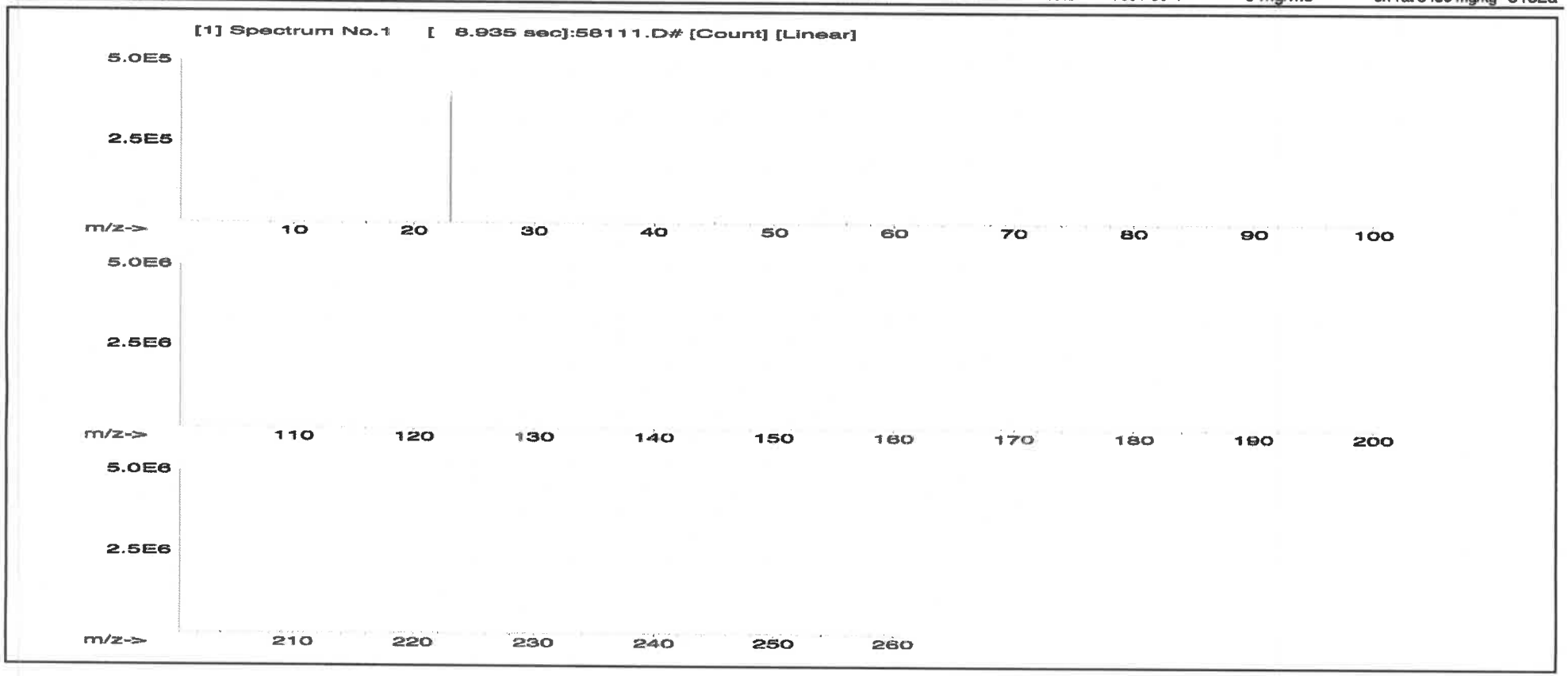
CERTIFIED WEIGHT REPORT:

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



936

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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937

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

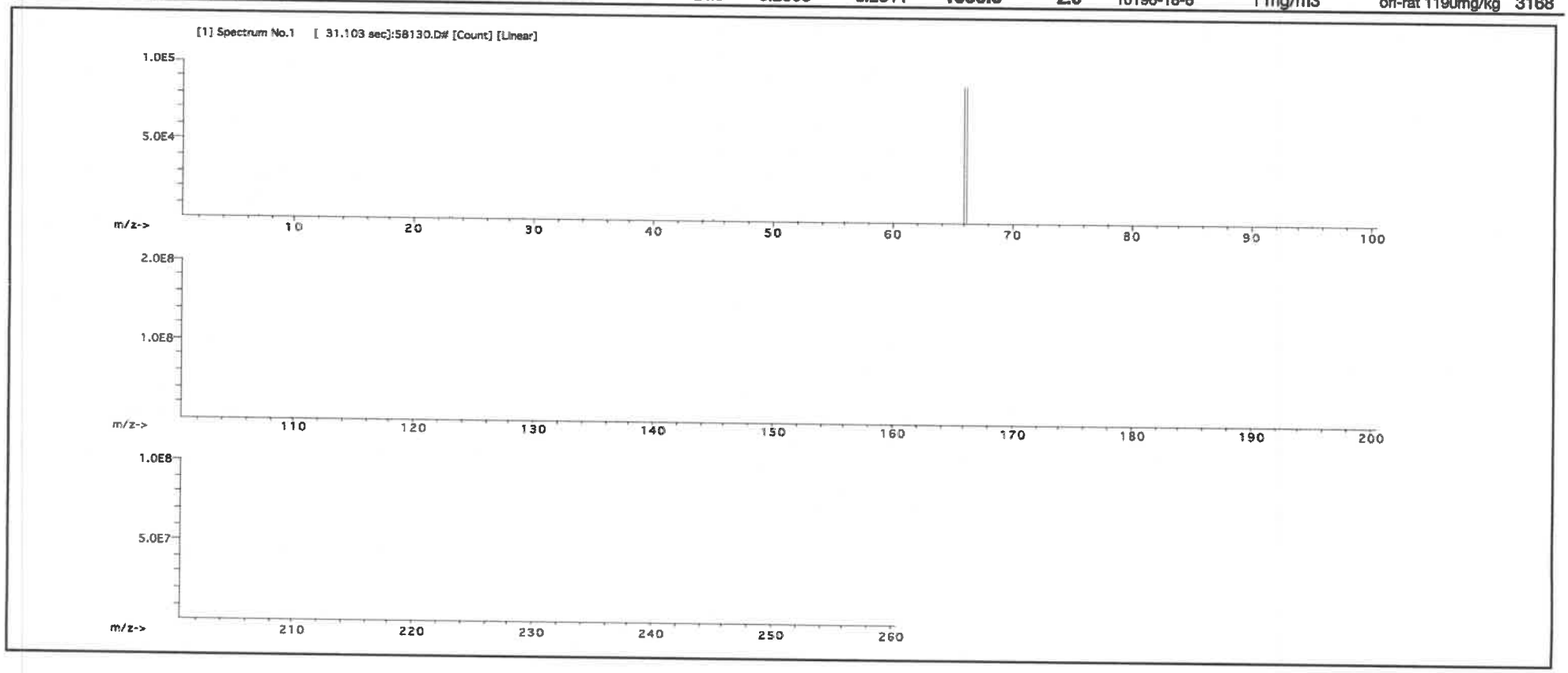
		Lot #	
Solvent:	24012496	Nitric Acid	
	2%	40.0 (mL)	Nitric Acid

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 121724

Reviewed By: Pedro L. Rentas 121724

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	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	ori-rat 1190mg/kg	3168



938

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:

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R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

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

(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

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:

941

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
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(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.**

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Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R: 01/03/24 M5802, M5803

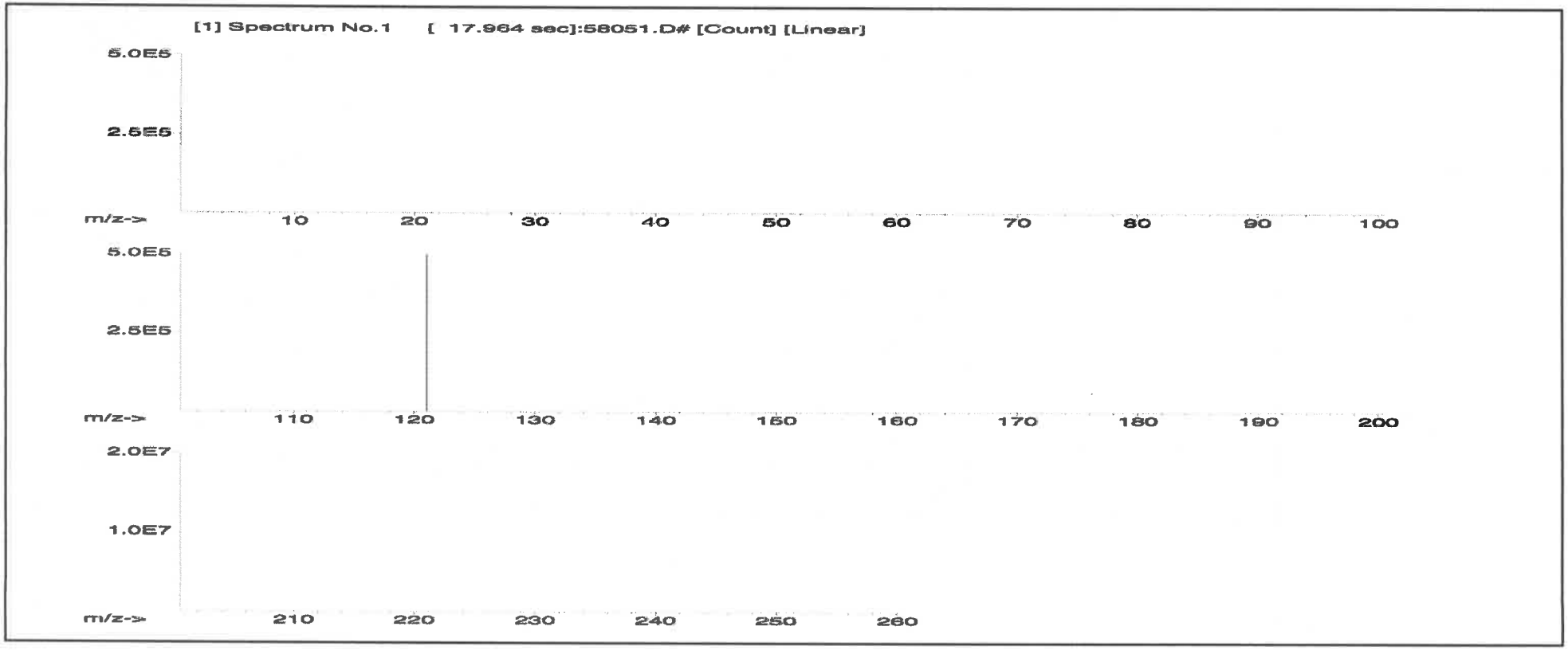
949

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



950

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

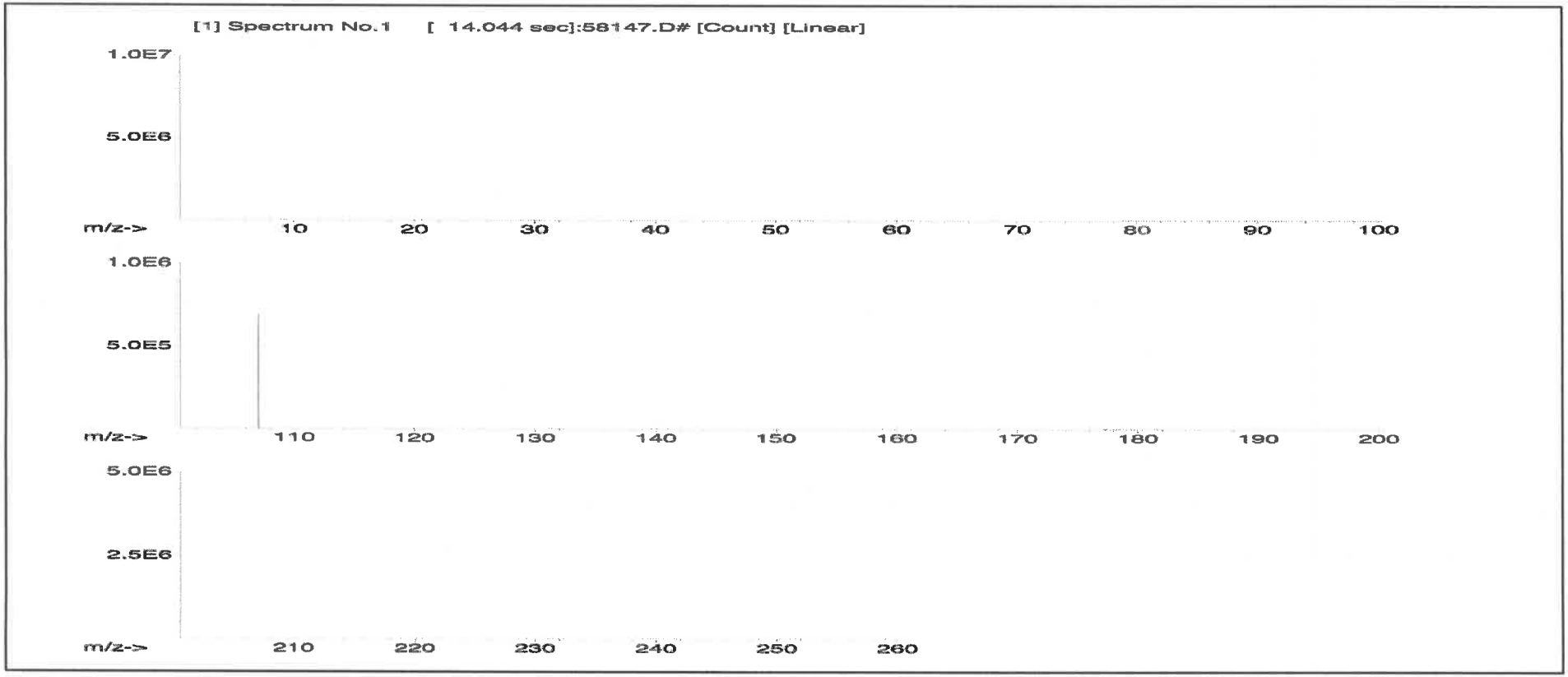
951

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



952

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED 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	

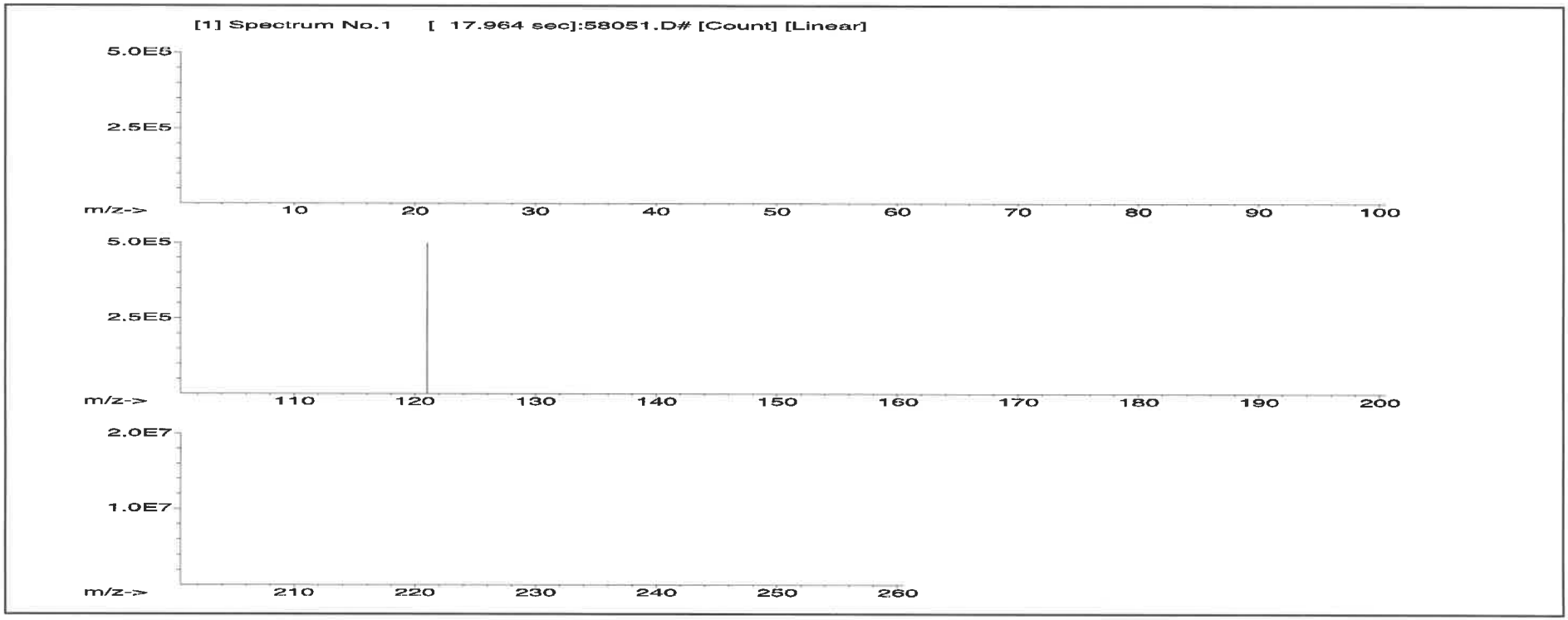
Giovanni Esposito

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



954

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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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.

955

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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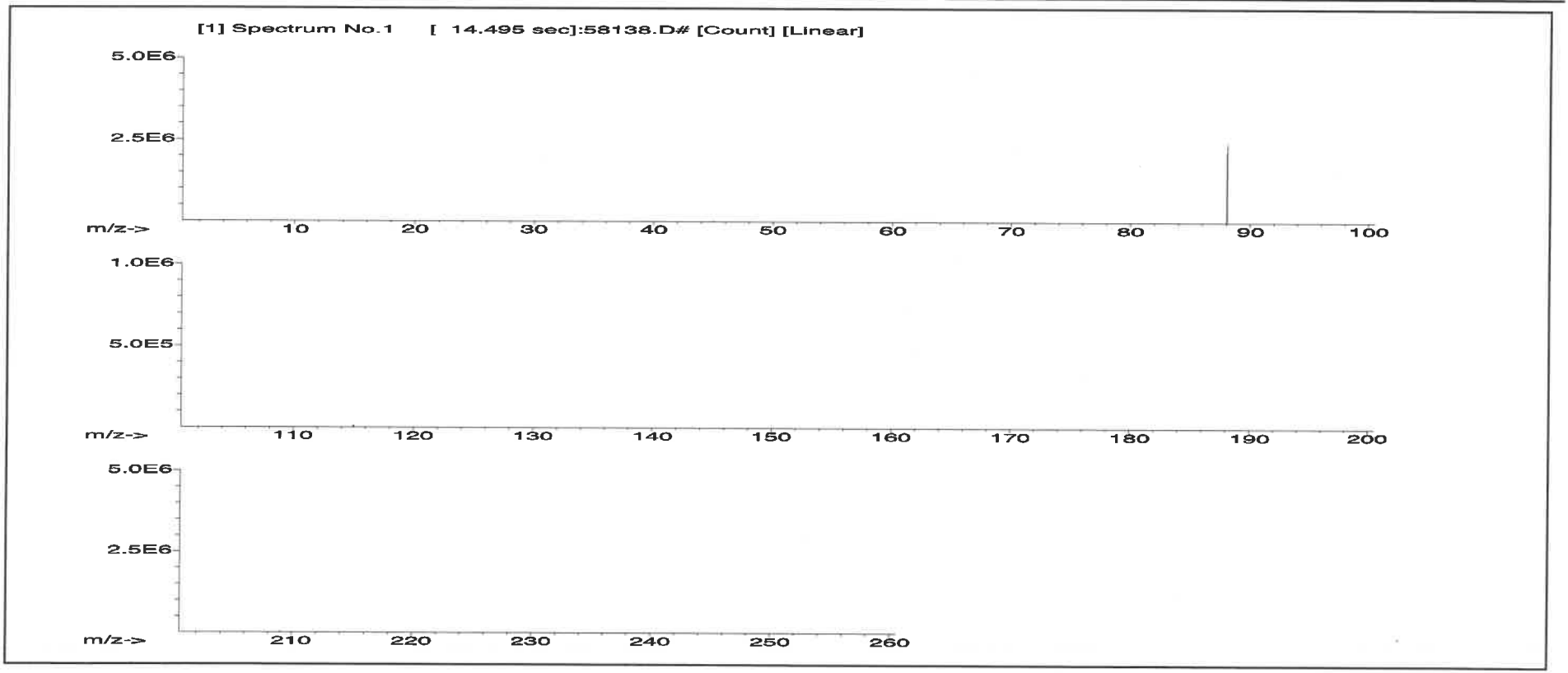
959

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



096

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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961

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		

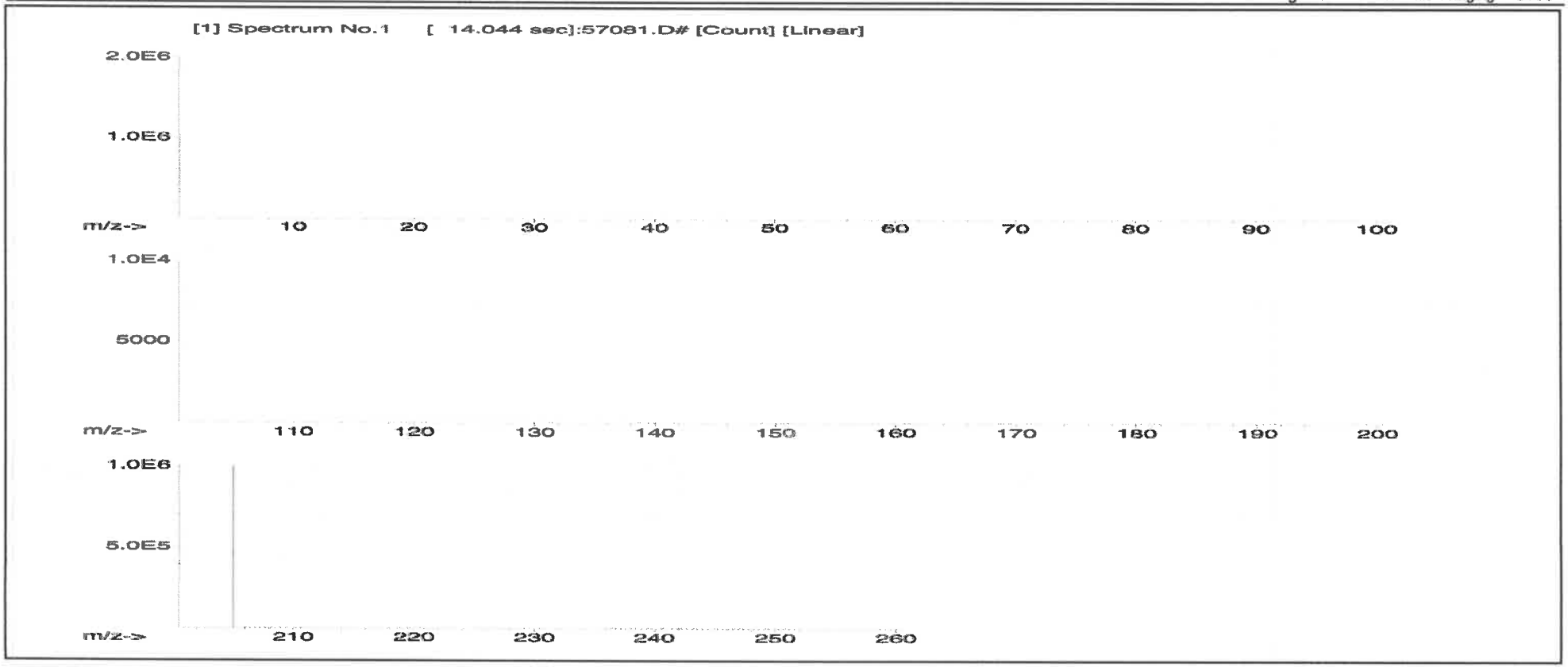
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

Pedro Rentas

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



962

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

963

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	

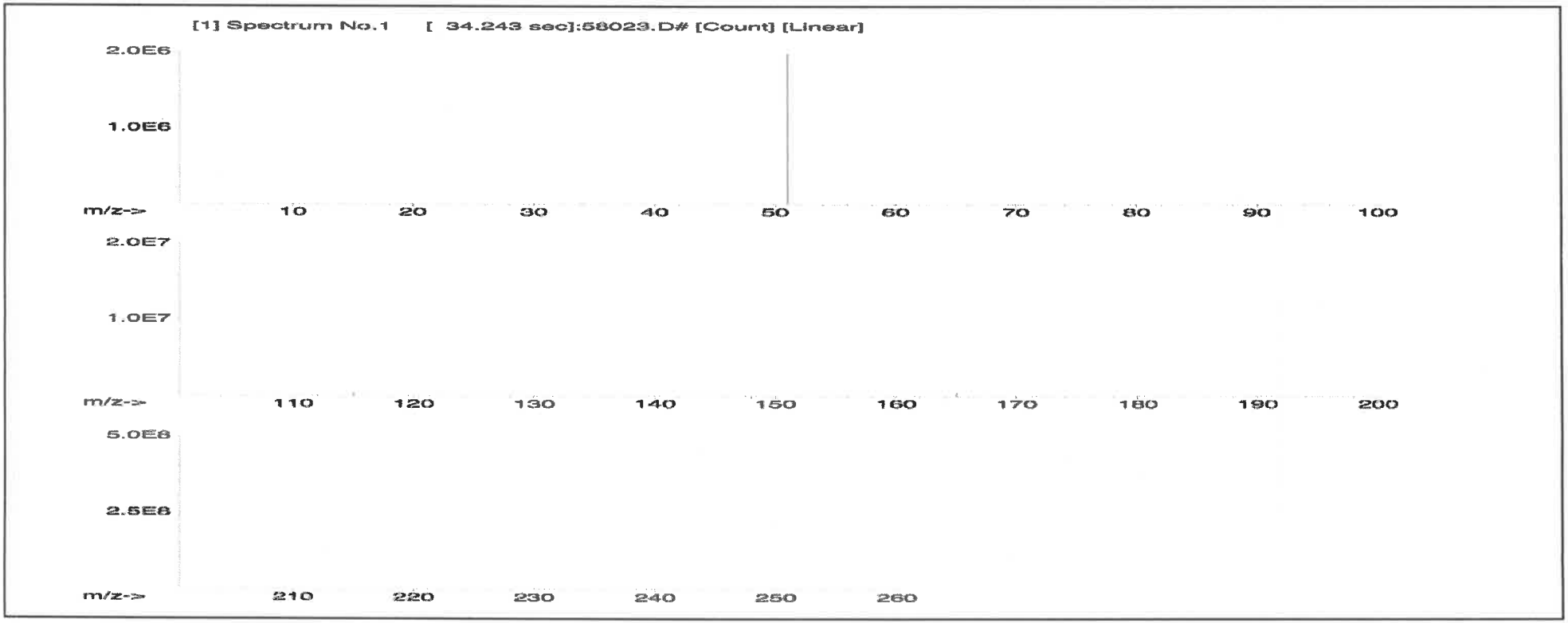
Aleah O'Brady

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



964

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

Water Metals Preparation Sheet

PB166535

SOP ID : M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

SDG No : A6311

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: 02/04/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 02/04/2025 **Time :** 14:35 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SRD.

Supervisor Signature:

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	050	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
02/04/25 15:35	SRD. met dig.	SS (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166535

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166535BL	PBW535	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	1
PB166535BS	LCS535	<2	50	50	Colorless	Colorless	Clear	Clear	MP84099	2
Q1245-01	A6311	<2	50	50	Light brownLigh	Colorless	Clear	Clear	N/A	3
Q1245-02	A6312	<2	50	50	t brown Light brownLigh	Colorless	Clear	Clear	N/A	4
Q1245-05	A6327	<2	50	50	t brown Light brownLigh	Colorless	Clear	Clear	N/A	5
Q1245-06	A6328	<2	50	50	t brown Light brownLigh	Colorless	Clear	Clear	N/A	6
Q1245-07	A6329	<2	50	50	t brown light Brown	Colorless	Clear	Clear	N/A	7
Q1245-08	A6330	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	8
Q1245-09	A6335	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	9
Q1245-10	A6335D	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	10
Q1245-11	A6335S	<2	50	50	Light brown	Colorless	Clear	Clear	MP84074	11
Q1245-12	A6336	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	12
Q1245-13	A6337	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	13
Q1245-14	A6338	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	14
Q1245-15	A6339	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	15
Q1245-16	A6340	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	16
Q1245-17	A6341	<2	50	50	Light brown	Colorless	Clear	Clear	N/A	17

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 # LB134662

Review By	Janvi Patel	Review On	2/11/2025 4:42:13 PM
Supervise By	Kareem Khairalla	Supervise On	2/11/2025 5:08:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84439
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84444,MP84443

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE001	TUNE	02/10/25 13:18		Jaswal	OK
2	S00	S0	CAL1	02/10/25 14:17		Jaswal	OK
3	S02	S02	CAL3	02/10/25 14:20		Jaswal	OK
4	S03	S03	CAL4	02/10/25 14:23		Jaswal	OK
5	S04	S04	CAL5	02/10/25 14:26		Jaswal	OK
6	S05	S05	CAL6	02/10/25 14:29		Jaswal	OK
7	S06	S06	CAL7	02/10/25 14:32		Jaswal	OK
8	S07	S07	CAL8	02/10/25 14:35		Jaswal	OK
9	S08	S08	CAL9	02/10/25 14:38		Jaswal	OK
10	ICV001	ICV001	ICV	02/10/25 15:14	Inst. paused for calibration review	Jaswal	OK
11	ICB001	ICB001	ICB	02/10/25 15:18		Jaswal	OK
12	ICSA001	ICSA001	ICSA	02/10/25 15:21		Jaswal	OK
13	ICSAB001	ICSAB001	ICSAB	02/10/25 15:29	Inst. paused for review	Jaswal	OK
14	CCV001	CCV001	CCV	02/10/25 15:32		Jaswal	OK
15	CCB001	CCB001	CCB	02/10/25 15:35		Jaswal	OK
16	PB166569BL	PBW569	MB	02/10/25 15:38		Jaswal	OK
17	PB166569BS	LCS569	LCS	02/10/25 15:43		Jaswal	OK
18	Q1204-01	ME2975	SAM	02/10/25 15:46		Jaswal	OK

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Supervise By	Kareem Khairalla	Supervise On	2/11/2025 5:08:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84439
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84444,MP84443

19	Q1204-02	ME2975D	DUP	02/10/25 15:49		Jaswal	OK
20	Q1204-01L	ME2975L	SD	02/10/25 15:53		Jaswal	OK
21	Q1204-03	ME2975S	MS	02/10/25 15:56	MS Fail For Se(Below RL)	Jaswal	OK
22	Q1204-04	ME2978	SAM	02/10/25 15:59		Jaswal	OK
23	Q1204-05	ME2979	SAM	02/10/25 16:03		Jaswal	OK
24	Q1204-06	ME2989	SAM	02/10/25 16:06		Jaswal	OK
25	Q1204-07	ME2991	SAM	02/10/25 16:09		Jaswal	OK
26	Q1204-08	ME2996	SAM	02/10/25 16:12	Ca High	Jaswal	Dilution
27	Q1204-09	ME29A4	SAM	02/10/25 16:16		Jaswal	OK
28	Q1204-10	ME29A5	SAM	02/10/25 16:19		Jaswal	OK
29	Q1204-11	ME29A7	SAM	02/10/25 16:22		Jaswal	OK
30	Q1204-12	ME29A8	SAM	02/10/25 16:25		Jaswal	OK
31	Q1204-13	ME29B0	SAM	02/10/25 16:29		Jaswal	OK
32	Q1204-14	ME29B1	SAM	02/10/25 16:32		Jaswal	OK
33	Q1204-15	ME29A9	SAM	02/10/25 16:35		Jaswal	OK
34	Q1204-16	ME29B2	SAM	02/10/25 16:38		Jaswal	OK
35	Q1204-17	ME29B3	SAM	02/10/25 16:42		Jaswal	OK
36	Q1204-18	ME29B4	SAM	02/10/25 16:45		Jaswal	OK
37	Q1204-19	ME29B5	SAM	02/10/25 16:48		Jaswal	OK
38	Q1204-20	ME29B8	SAM	02/10/25 16:51	Ca High	Jaswal	Dilution

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134662

Review By	Janvi Patel	Review On	2/11/2025 4:42:13 PM
Supervise By	Kareem Khairalla	Supervise On	2/11/2025 5:08:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84439
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84444,MP84443

39	Q1204-21	ME29B9	SAM	02/10/25 16:54		Jaswal	OK
40	Q1204-22	ME29C0	SAM	02/10/25 16:58		Jaswal	OK
41	Q1204-08DL2	ME2996	SAM	02/10/25 17:01	5x for Ca	Jaswal	Confirms
42	Q1204-20DL	ME29B8	SAM	02/10/25 17:04	2X For Ca	Jaswal	Confirms
43	Q1204-08DL	ME2996	SAM	02/10/25 17:07	Not use	Jaswal	Not Ok
44	CCV002	CCV002	CCV	02/10/25 17:11		Jaswal	OK
45	CCB002	CCB002	CCB	02/10/25 17:14		Jaswal	OK
46	PB166535BL	PBW535	MB	02/10/25 17:18		Jaswal	OK
47	PB166535BS	LCS535	LCS	02/10/25 17:22		Jaswal	OK
48	Q1245-01	A6311	SAM	02/10/25 17:25	V High	Jaswal	Dilution
49	Q1245-02	A6312	SAM	02/10/25 17:28	Ni,Ag High	Jaswal	Dilution
50	Q1245-05	A6327	SAM	02/10/25 17:31		Jaswal	OK
51	Q1245-06	A6328	SAM	02/10/25 17:34		Jaswal	OK
52	Q1245-07	A6329	SAM	02/10/25 17:38		Jaswal	OK
53	Q1245-08	A6330	SAM	02/10/25 17:41		Jaswal	OK
54	Q1245-09	A6335	SAM	02/10/25 17:44		Jaswal	OK
55	Q1245-10	A6335D	DUP	02/10/25 17:47		Jaswal	OK
56	Q1245-09L	A6335L	SD	02/10/25 17:51		Jaswal	OK
57	Q1245-11	A6335S	MS	02/10/25 17:54	MS Fail For Se(Below RL)	Jaswal	OK
58	Q1245-12	A6336	SAM	02/10/25 17:57		Jaswal	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 # LB134662

Review By	Janvi Patel	Review On	2/11/2025 4:42:13 PM
Supervise By	Kareem Khairalla	Supervise On	2/11/2025 5:08:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84439
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	
LCS Standard	MP84099
Chk Standard	MP84444,MP84443

59	Q1245-13	A6337	SAM	02/10/25 18:00		Jaswal	OK
60	Q1245-14	A6338	SAM	02/10/25 18:04		Jaswal	OK
61	Q1245-15	A6339	SAM	02/10/25 18:07		Jaswal	OK
62	Q1245-16	A6340	SAM	02/10/25 18:10		Jaswal	OK
63	Q1245-17	A6341	SAM	02/10/25 18:14		Jaswal	OK
64	Q1245-01DL	A6311	SAM	02/10/25 18:17	2X For V	Jaswal	Confirms
65	Q1245-02DL	A6312	SAM	02/10/25 18:20	2X For Ni,Ag	Jaswal	Confirms
66	CCV003	CCV003	CCV	02/10/25 18:23		Jaswal	OK
67	CCB003	CCB003	CCB	02/10/25 18:26		Jaswal	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 # LB134674

Review By	Janvi Patel	Review On	2/12/2025 11:01:11 AM
Supervise By	Mohan Bera	Supervise On	2/12/2025 11:10:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84473
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	MP84474
LCS Standard	
Chk Standard	MP84444,MP84443

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE005	TUNE	02/11/25 11:22		Jaswal	OK
2	S00	S0	CAL1	02/11/25 12:05		Jaswal	OK
3	S02	S02	CAL3	02/11/25 12:08		Jaswal	OK
4	S03	S03	CAL4	02/11/25 12:11		Jaswal	OK
5	S04	S04	CAL5	02/11/25 12:15		Jaswal	OK
6	S05	S05	CAL6	02/11/25 12:18		Jaswal	OK
7	S06	S06	CAL7	02/11/25 12:20		Jaswal	OK
8	S07	S07	CAL8	02/11/25 12:23		Jaswal	OK
9	S08	S08	CAL9	02/11/25 12:26		Jaswal	OK
10	ICV005	ICV005	ICV	02/11/25 13:29	Inst. paused for Calibration review	Jaswal	OK
11	ICB005	ICB005	ICB	02/11/25 13:33		Jaswal	OK
12	ICSA005	ICSA005	ICSA	02/11/25 13:40	Inst. paused for review	Jaswal	OK
13	ICSAB005	ICSAB005	ICSAB	02/11/25 13:44		Jaswal	OK
14	CCV021	CCV021	CCV	02/11/25 13:47		Jaswal	OK
15	CCB021	CCB021	CCB	02/11/25 13:50		Jaswal	OK
16	Q1159-01DL	YE8C9	SAM	02/11/25 13:53	Sr high in MS	Jaswal	Not Ok
17	Q1159-02DL	YE8C9D	DUP	02/11/25 13:57	Sr high in MS	Jaswal	Not Ok
18	Q1159-01LDL	YE8C9L	SD	02/11/25 14:00	Sr high in MS	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 # LB134674

Review By	Janvi Patel	Review On	2/12/2025 11:01:11 AM
Supervise By	Mohan Bera	Supervise On	2/12/2025 11:10:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84473
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	MP84474
LCS Standard	
Chk Standard	MP84444,MP84443

19	Q1159-03DL	YE8C9S	MS	02/11/25 14:03	2x for Sr still Sr high	Jaswal	Not Ok
20	PB166570BL	PBW570	MB	02/11/25 14:15		Jaswal	OK
21	PB166570BS	LCS570	LCS	02/11/25 14:18		Jaswal	OK
22	Q1135-09	YE8H7	SAM	02/11/25 14:22		Jaswal	OK
23	PB166317BL	PBW317	MB	02/11/25 14:25		Jaswal	OK
24	PB166317BS	LCS317	LCS	02/11/25 14:29		Jaswal	OK
25	Q1186-01	ME2948	SAM	02/11/25 14:32		Jaswal	OK
26	Q1159-01DL2	YE8C9	SAM	02/11/25 14:35	4x For Sr	Jaswal	Confirms
27	Q1159-02DL2	YE8C9D	DUP	02/11/25 14:38	4x For Sr	Jaswal	Confirms
28	Q1159-01LDL2	YE8C9L	SD	02/11/25 14:42	20x For Sr	Jaswal	Confirms
29	Q1159-03DL2	YE8C9S	MS	02/11/25 14:45	4x For Sr	Jaswal	Confirms
30	CCV022	CCV022	CCV	02/11/25 14:50		Jaswal	OK
31	CCB022	CCB022	CCB	02/11/25 14:53		Jaswal	OK
32	Q1204-01A	ME2975A	PS	02/11/25 15:21	Se 0.1ml of mp84474 in 10ml sample	Jaswal	OK
33	Q1245-09A	A6335A	PS	02/11/25 15:25	Se 0.1ml of mp84474 in 10ml sample	Jaswal	OK
34	PB166636BL	PBW636	MB	02/11/25 15:28		Jaswal	OK
35	PB166636BS	LCS636	LCS	02/11/25 15:31		Jaswal	OK
36	Q1255-01	MDCZM3	SAM	02/11/25 15:41		Jaswal	OK
37	Q1255-02	MDCZP0	SAM	02/11/25 15:45		Jaswal	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 # LB134674

Review By	Janvi Patel	Review On	2/12/2025 11:01:11 AM
Supervise By	Mohan Bera	Supervise On	2/12/2025 11:10:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84414,MP84423,MP84422,MP84420,MP84419,MP84418,MP84417,MP84416,MP84415
ICV Standard	MP84473
CCV Standard	MP84438
ICSA Standard	MP84440,MP84441
CRI Standard	MP84474
LCS Standard	
Chk Standard	MP84444,MP84443

38	Q1255-03	MDCZP1	SAM	02/11/25 15:48		Jaswal	OK
39	Q1255-04	MDCZP5	SAM	02/11/25 15:51		Jaswal	OK
40	Q1255-05	MDCZM4	SAM	02/11/25 15:54		Jaswal	OK
41	Q1255-06	MDCZN3	SAM	02/11/25 15:58		Jaswal	OK
42	Q1255-07	MDCZP2	SAM	02/11/25 16:01		Jaswal	OK
43	Q1255-08	MDCZN8	SAM	02/11/25 16:04		Jaswal	OK
44	Q1255-09	MDCZN8D	DUP	02/11/25 16:08		Jaswal	OK
45	Q1255-08L	MDCZN8L	SD	02/11/25 16:11		Jaswal	OK
46	Q1255-10	MDCZN8S	MS	02/11/25 16:14	MS fail for Se(Below RL)	Jaswal	OK
47	Q1255-11	MDCZL6	SAM	02/11/25 16:17		Jaswal	OK
48	CCV023	CCV023	CCV	02/11/25 16:21		Jaswal	OK
49	CCB023	CCB023	CCB	02/11/25 16:24		Jaswal	OK
50	Q1255-12	MDCZL9	SAM	02/11/25 16:32		Jaswal	OK
51	Q1255-13	MDCZN9	SAM	02/11/25 16:36		Jaswal	OK
52	Q1255-14	MDCZN2	SAM	02/11/25 16:39		Jaswal	OK
53	Q1255-15	MDCZN7	SAM	02/11/25 16:42		Jaswal	OK
54	Q1255-16	MDCZP4	SAM	02/11/25 16:46		Jaswal	OK
55	CCV024	CCV024	CCV	02/11/25 16:49		Jaswal	OK
56	CCB024	CCB024	CCB	02/11/25 16:52		Jaswal	OK

ERA

A Waters Company

Instructions for Catalog # 500QR
Water Pollution Trace Metals

Revision 120823

Description:

- This standard is packaged in a 30 mL screw-top vial containing approximately 28 mL of standard concentrate.
- This concentrate is preserved with approximately 2% (v/v) nitric acid and 0.1% (w/v) tartaric acid.
- The concentrate can be stored at room temperature.
- The diluted standard will contain all the analytes listed in the ranges specified on the data reporting form.

Before you begin:

- The sample resulting from the dilution described below will have a nitric acid concentration of approximately 0.02% before any acid is added. You may add a volume of acid different from the 2 to 5 mL of HNO_3 suggested in order to matrix match your calibration standards or meet any other method criteria.
- If analyzing this standard using colorimetric techniques, it may be necessary to pH adjust the sample prior to analysis. If using colorimetric techniques, it is acceptable to omit the addition of the 2-5 mL nitric acid suggested.
- While it is technically not necessary to digest this standard prior to analysis, digestion should be performed if this is your normal procedure.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of deionized water and approximately 2 to 5 mL of nitric acid to a clean 500 mL class A volumetric flask.
2. Shake the Trace Metals vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 10.0 mL of the concentrate into the 500 mL volumetric flask.
4. Dilute the flask to final volume (500 mL) with deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as µg/L for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Safety Data Sheets (SDS) for all ERA products are available through our website. www.eraqc.com

ERA

A Waters Company

Instructions for Catalog #666QR

WatR™Supply Mercury

Revision 030512

Description:

- This standard is packaged in a 15 mL screw-top vial containing approximately 14 mL of standard concentrate.
- This concentrate is preserved with approximately 1% (v/v) nitric acid and 0.04% (w/v) potassium dichromate.
- The concentrate can be stored at room temperature.
- The diluted standard will contain Mercury in the range specified on the data reporting form.

Before you begin:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- The USEPA *Criteria Document* requires that Mercury be present as a mixture of organic and inorganic forms and must, therefore, be analyzed as Total Mercury.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of deionized water and approximately 2 to 5 mL of nitric acid to a clean 500 mL class A volumetric flask.
2. Shake the Mercury vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 5.0 mL of the concentrate into the 500 mL volumetric flask.
4. Dilute the flask to final volume with deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as µg/L for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Material Safety Data Sheets (MSDS) for all ERA products are available by calling 1-800-372-0122.

EPA SAMPLE NO.

A6315

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.: A6311

Matrix: Water Lab Sample ID: Q1245-03

% Solids: Date Received: 01/31/2025

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	8.7		02/19/2025	1658

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

Comments:

EPA SAMPLE NO.

A6316

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.: A6311

Matrix: Water Lab Sample ID: Q1245-04

% Solids: Date Received: 01/31/2025

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	6.8		02/19/2025	1705

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

Comments:

EPA SAMPLE NO.

A6327

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.: A6311

Matrix: Water Lab Sample ID: Q1245-05

% Solids: Date Received: 01/31/2025

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	0.063	J	02/19/2025	1601

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

Comments:

EPA SAMPLE NO.

A6328

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.: A6311

Matrix: Water Lab Sample ID: Q1245-06

% Solids: Date Received: 01/31/2025

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	02/19/2025	1604

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

Comments:

EPA SAMPLE NO.

A6329

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.: A6311

Matrix: Water Lab Sample ID: Q1245-07

% Solids: Date Received: 01/31/2025

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	02/19/2025	1606

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

Comments:

EPA SAMPLE NO.

A6330

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.: A6311

Matrix: Water Lab Sample ID: Q1245-08

% Solids: Date Received: 01/31/2025

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	02/19/2025	1608

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

Comments:

EPA SAMPLE NO.

A6335

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.: A6311

Matrix: Water Lab Sample ID: Q1245-09

% Solids: Date Received: 01/31/2025

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	0.028	J	02/19/2025	1610

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

Comments:

EPA SAMPLE NO.

A6336

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.: A6311

Matrix: Water Lab Sample ID: Q1245-12

% Solids: Date Received: 01/31/2025

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	0.025	J	02/19/2025	1617

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

Comments:

EPA SAMPLE NO.

A6337

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.: A6311

Matrix: Water Lab Sample ID: Q1245-13

% Solids: Date Received: 01/31/2025

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	0.022	J	02/19/2025	1619

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

Comments:

EPA SAMPLE NO.

A6338

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.: A6311

Matrix: Water Lab Sample ID: Q1245-14

% Solids: Date Received: 01/31/2025

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	0.039	J	02/19/2025	1622

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

Comments:

EPA SAMPLE NO.

A6339

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.: A6311

Matrix: Water Lab Sample ID: Q1245-15

% Solids: Date Received: 01/31/2025

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	0.027	J	02/19/2025	1624

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

Comments:

EPA SAMPLE NO.

A6340

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.: A6311

Matrix: Water Lab Sample ID: Q1245-16

% Solids: Date Received: 01/31/2025

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	0.031	J	02/19/2025	1626

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

Comments:

EPA SAMPLE NO.

A6341

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.: A6311

Matrix: Water Lab Sample ID: Q1245-17

% Solids: Date Received: 01/31/2025

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	02/19/2025	1629

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

Comments:

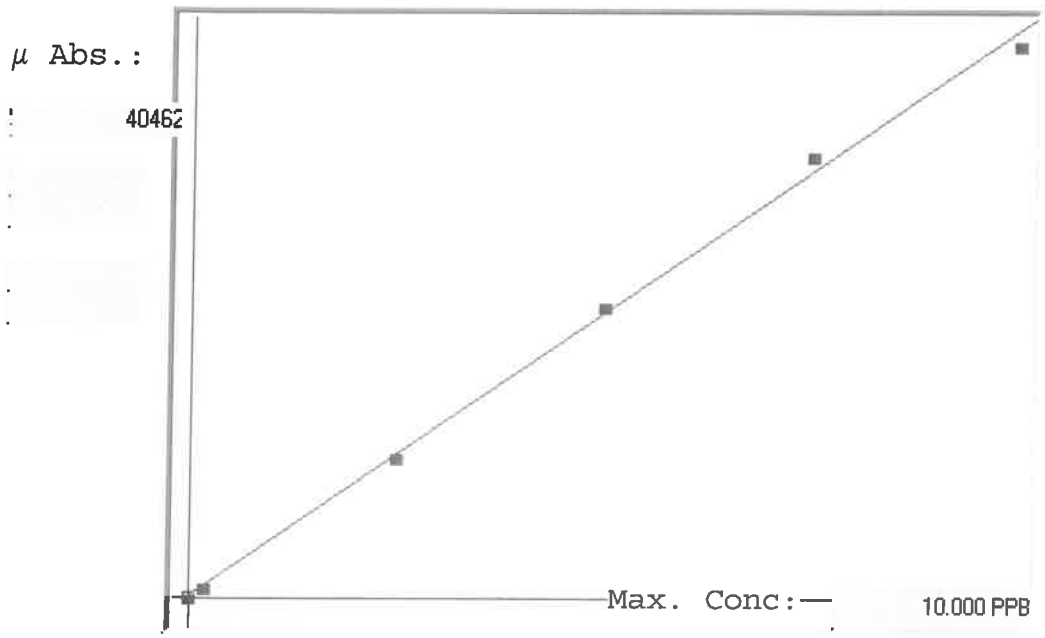
Reviewed By:jignesh
On:2/20/2025 9:08:45 AM
Inst Id :CV1

LB134747

SFAM01.1

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.4123e-004 slope

C= -3.3511e-002 y-intercept

Rho= 0.9989311

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%
0.00	0.000	-0.034	-0.034	0	0.000	0					=
0.05	0.050										-17
0.20	0.200	0.167	-0.033	831	0.0 %	831					-2
2.50	2.500	2.445	-0.055	10274	0.0 %	10274					2
5.00	5.000	5.104	0.104	21298	0.0 %	21298					4
7.50	7.500	7.790	0.290	32431	0.0 %	32431					-3
10.0	10.000	9.727	-0.273	40462	0.0 %	40462					

Reviewed By:jignesh
On:2/20/2025 9:08:45 AM
Inst Id :CV1

LB134747

INSTRUEMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	0	-	0	SFAM01.1	PPB	2/19/2025 14:26	Std
0.2	S01	831	-	0.2	SFAM01.1	PPB	2/19/2025 14:28	Std
2.5	S02	10274	-	2.5	SFAM01.1	PPB	2/19/2025 14:31	Std
5	S03	21298	-	5	SFAM01.1	PPB	2/19/2025 14:33	Std
7.5	S04	32431	-	7.5	SFAM01.1	PPB	2/19/2025 14:35	Std
10	S05	40462	-	10	SFAM01.1	PPB	2/19/2025 14:38	Std
ICV010	ICV010	15781	3.7734	-	SFAM01.1	PPB	2/19/2025 14:43	SMPL
ICB010	ICB010	-7	-0.0352	-	SFAM01.1	PPB	2/19/2025 14:48	SMPL
CCV087	CCV087	21702	5.2018	-	SFAM01.1	PPB	2/19/2025 14:50	SMPL
CCB087	CCB087	-298	-0.1054	-	SFAM01.1	PPB	2/19/2025 14:52	SMPL
PB166782BL	PBW782	282	0.0345	-	SFAM01.1	PPB	2/19/2025 14:55	SMPL
Q1231-01	ME2993	314	0.0422	-	SFAM01.1	PPB	2/19/2025 14:57	SMPL
Q1231-02	ME2993D	280	0.034	-	SFAM01.1	PPB	2/19/2025 14:59	SMPL
Q1231-03	ME2993S	5535	1.3017	-	SFAM01.1	PPB	2/19/2025 15:02	SMPL
Q1231-04	ME29C1	496	0.0861	-	SFAM01.1	PPB	2/19/2025 15:04	SMPL
Q1231-05	ME29C2	247	0.0261	-	SFAM01.1	PPB	2/19/2025 15:06	SMPL
Q1231-06	ME29C3	167	0.0068	-	SFAM01.1	PPB	2/19/2025 15:08	SMPL
Q1231-07	ME29C4	186	0.0114	-	SFAM01.1	PPB	2/19/2025 15:11	SMPL
Q1255-01	MDCZM3	219	0.0193	-	SFAM01.1	PPB	2/19/2025 15:13	SMPL
Q1255-02	MDCZP0	297	0.0381	-	SFAM01.1	PPB	2/19/2025 15:15	SMPL
Q1255-03	MDCZP1	330	0.0461	-	SFAM01.1	PPB	2/19/2025 15:17	SMPL
Q1255-04	MDCZP5	2458	0.5594	-	SFAM01.1	PPB	2/19/2025 15:20	SMPL
Q1255-05	MDCZM4	-78	-0.0523	-	SFAM01.1	PPB	2/19/2025 15:22	SMPL
Q1255-06	MDCZN3	283	0.0348	-	SFAM01.1	PPB	2/19/2025 15:24	SMPL
Q1255-07	MDCZP2	259	0.029	-	SFAM01.1	PPB	2/19/2025 15:27	SMPL
Q1255-08	MDCZN8	-23	-0.0391	-	SFAM01.1	PPB	2/19/2025 15:29	SMPL
Q1255-09	MDCZN8D	-8	-0.0354	-	SFAM01.1	PPB	2/19/2025 15:31	SMPL
Q1255-10	MDCZN8S	5182	1.2166	-	SFAM01.1	PPB	2/19/2025 15:33	SMPL
Q1255-11	MDCZL6	173	0.0082	-	SFAM01.1	PPB	2/19/2025 15:36	SMPL
Q1255-12	MDCZL9	-36	-0.0422	-	SFAM01.1	PPB	2/19/2025 15:38	SMPL
CCV088	CCV088	21376	5.1231	-	SFAM01.1	PPB	2/19/2025 15:41	SMPL
CCB088	CCB088	-240	-0.0914	-	SFAM01.1	PPB	2/19/2025 15:43	SMPL
Q1255-13	MDCZN9	333	0.0468	-	SFAM01.1	PPB	2/19/2025 15:46	SMPL
Q1255-14	MDCZN2	354	0.0519	-	SFAM01.1	PPB	2/19/2025 15:48	SMPL
Q1255-15	MDCZN7	281	0.0343	-	SFAM01.1	PPB	2/19/2025 15:50	SMPL
Q1255-16	MDCZP4	278	0.0336	-	SFAM01.1	PPB	2/19/2025 15:52	SMPL
PB166783BL	PBW783	180	0.0099	-	SFAM01.1	PPB	2/19/2025 15:55	SMPL
Q1245-05	A6327	400	0.063	-	SFAM01.1	PPB	2/19/2025 16:01	SMPL
Q1245-06	A6328	201	0.015	-	SFAM01.1	PPB	2/19/2025 16:04	SMPL
Q1245-07	A6329	207	0.0164	-	SFAM01.1	PPB	2/19/2025 16:06	SMPL
Q1245-08	A6330	223	0.0203	-	SFAM01.1	PPB	2/19/2025 16:08	SMPL
Q1245-09	A6335	256	0.0282	-	SFAM01.1	PPB	2/19/2025 16:10	SMPL
Q1245-10	A6335D	193	0.013	-	SFAM01.1	PPB	2/19/2025 16:13	SMPL
Q1245-11	A6335S	5350	1.2571	-	SFAM01.1	PPB	2/19/2025 16:15	SMPL
Q1245-12	A6336	242	0.0249	-	SFAM01.1	PPB	2/19/2025 16:17	SMPL

Reviewed By:jignesh
On:2/20/2025 9:08:45 AM
Inst Id :CV1

LB134747

INSTRUEMENT ID : CV1

Q1245-13	A6337	228	0.0215	-	SFAM01.1	PPB	2/19/2025 16:19	SMPL
Q1245-14	A6338	301	0.0391	-	SFAM01.1	PPB	2/19/2025 16:22	SMPL
Q1245-15	A6339	251	0.027	-	SFAM01.1	PPB	2/19/2025 16:24	SMPL
Q1245-16	A6340	268	0.0311	-	SFAM01.1	PPB	2/19/2025 16:26	SMPL
Q1245-17	A6341	204	0.0157	-	SFAM01.1	PPB	2/19/2025 16:29	SMPL
CCV089	CCV089	22472	5.3875	-	SFAM01.1	PPB	2/19/2025 16:31	SMPL
CCB089	CCB089	-284	-0.102	-	SFAM01.1	PPB	2/19/2025 16:33	SMPL
Q1339-01	ME29C5	171	0.0077	-	SFAM01.1	PPB	2/19/2025 16:35	SMPL
Q1339-02	ME29C7	218	0.0191	-	SFAM01.1	PPB	2/19/2025 16:38	SMPL
Q1339-03	ME29C6	241	0.0246	-	SFAM01.1	PPB	2/19/2025 16:40	SMPL
Q1339-04	ME29C9	290	0.0364	-	SFAM01.1	PPB	2/19/2025 16:42	SMPL
Q1339-05	ME29D1	227	0.0212	-	SFAM01.1	PPB	2/19/2025 16:44	SMPL
Q1339-06	ME29D2	213	0.0179	-	SFAM01.1	PPB	2/19/2025 16:47	SMPL
Q1339-07	ME29D4	283	0.0348	-	SFAM01.1	PPB	2/19/2025 16:49	SMPL
Q1339-08	ME29D2D	253	0.0275	-	SFAM01.1	PPB	2/19/2025 16:51	SMPL
Q1339-09	ME29D2S	5342	1.2552	-	SFAM01.1	PPB	2/19/2025 16:54	SMPL
Q1245-03	A6315	36037	8.6599	-	SFAM01.1	PPB	2/19/2025 16:58	SMPL
Q1245-04	A6316	28475	6.8357	-	SFAM01.1	PPB	2/19/2025 17:05	SMPL
CCV090	CCV090	21387	5.1258	-	SFAM01.1	PPB	2/19/2025 17:14	SMPL
CCB090	CCB090	-70	-0.0504	-	SFAM01.1	PPB	2/19/2025 17:19	SMPL

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Prep Standard - Chemical Standard Summary

Order ID : Q1245

Test : Mercury

Prepbatch ID : PB166783,

Sequence ID/Qc Batch ID: LB134747,

Standard ID :
MP84563,MP84564,MP84565,MP84566,MP84567,MP84568,MP84569,MP84570,MP84571,MP84572,MP84573,MP84574,MP84575,MP84576,MP84577,MP84581,

Chemical ID :
M4371,M4465,M4916,M5062,M5532,M5789,M5882,M5884,M6041,M6126,M6151,W3112,

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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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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.	MP84567	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 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	MP84568	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 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	MP84569	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP84567 = 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	MP84570	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP84567 = 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	MP84571	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP84567 = 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	MP84572	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP84567 = 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	MP84573	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP84567 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1346	Hg ICV SOLUTION	MP84574	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 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)	MP84575	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 2.50000ml of M5789 + 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)	MP84576	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 02/19/2025

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP84567 = 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)	MP84577	02/19/2025	02/20/2025	Mohan Bera	None	METALS_PIPETTE_3 (A)	Iwona Zarych 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	MP84581	02/19/2025	02/20/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Iwona Zarych 02/19/2025

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6151 = Final Quantity: 500.000 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 / jaswal	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 / jaswal	03/30/2023 / mohan	M5532

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)	23G1262003	07/30/2025	02/08/2024 / Al-Terek	06/26/2023 / Al-Terek	M5789

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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-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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-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	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

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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

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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

1004

Certificate of Analysis

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

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Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
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Certificate of Analysis

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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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.000011	M	Eu	<	0.000201	O	Na		0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000001	O	Fe		0.000001	M	Nb	<	0.000201	O	Si		0.000005	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000001	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO_3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO_3 / LDPE container, stable in 10% HNO_3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO_3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO_3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxide (Soluble in HNO_3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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
MS

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

1012

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

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166783

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : A6311/ME29C5

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#2 2. N/A

Start Digest Date: 02/19/2025 **Time :** 11:25 **Temp :** 95 °C

End Digest Date: 02/19/2025 **Time :** 13:25 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#2

Dig Technician Signature: MB

Supervisor Signature: MB

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP84574
CCV	100mL	MP84576
Matrix Spike	0.40mL	MP84567
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	MP84568
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP84569
2.5 ppb	S2.5	100mL	MP84570
5.0 ppb	S5.0	100mL	MP84571
7.5 ppb	S7.5	100mL	MP84572
10.0 ppb	S10.0	100mL	MP84573
ICV	ICV	100mL	MP84574
ICB	ICB	100mL	MP84575
CCV	CCV	100mL	MP84576
CCB	CCB	100mL	MP84577
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
2/19/25 @ 1315	MB · DIG · Lab	MB manual Lab
	Preparation Group	Analysis Group 1020

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166783

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166783BL	PBW783	100	100	<2	N/A	2-1
Q1245-03	A6315	100	100	<2	N/A	2
Q1245-04	A6316	100	100	<2	N/A	3
Q1245-05	A6327	100	100	<2	N/A	4
Q1245-06	A6328	100	100	<2	N/A	5
Q1245-07	A6329	100	100	<2	N/A	6
Q1245-08	A6330	100	100	<2	N/A	7
Q1245-09	A6335	100	100	<2	N/A	8
Q1245-10	A6335D	100	100	<2	N/A	9
Q1245-11	A6335S	100	100	<2	MP84567	10
Q1245-12	A6336	100	100	<2	N/A	11
Q1245-13	A6337	100	100	<2	N/A	12
Q1245-14	A6338	100	100	<2	N/A	13
Q1245-15	A6339	100	100	<2	N/A	14
Q1245-16	A6340	100	100	<2	N/A	15
Q1245-17	A6341	100	100	<2	N/A	16
Q1339-01	ME29C5	100	100	<2	N/A	17
Q1339-02	ME29C7	100	100	<2	N/A	18
Q1339-03	ME29C6	100	100	<2	N/A	19
Q1339-04	ME29C9	100	100	<2	N/A	20
Q1339-05	ME29D1	100	100	<2	N/A	21
Q1339-06	ME29D2	100	100	<2	N/A	22
Q1339-07	ME29D4	100	100	<2	N/A	23
Q1339-08	ME29D2D	100	100	<2	N/A	24
Q1339-09	ME29D2S	100	100	<2	MP84567	25

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 # LB134747

Review By	Mohan Bera	Review On	2/20/2025 8:58:10 AM
Supervise By	Jignesh Parikh	Supervise On	2/20/2025 9:08:45 AM

STD. NAME	STD REF.#
ICAL Standard	MP84568,MP84569,MP84570,MP84571,MP84572,MP84573
ICV Standard	MP84574
CCV Standard	MP84576
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84575,MP84577,MP84581

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/19/25 14:26		Mohan	OK
2	S0.2	S01	CAL2	02/19/25 14:28		Mohan	OK
3	S2.5	S02	CAL3	02/19/25 14:31		Mohan	OK
4	S5	S03	CAL4	02/19/25 14:33		Mohan	OK
5	S7.5	S04	CAL5	02/19/25 14:35		Mohan	OK
6	S10	S05	CAL6	02/19/25 14:38		Mohan	OK
7	ICV010	ICV010	ICV	02/19/25 14:43		Mohan	OK
8	ICB010	ICB010	ICB	02/19/25 14:48		Mohan	OK
9	CCV087	CCV087	CCV	02/19/25 14:50		Mohan	OK
10	CCB087	CCB087	CCB	02/19/25 14:52		Mohan	OK
11	PB166782BL	PBW782	MB	02/19/25 14:55		Mohan	OK
12	Q1231-01	ME2993	SAM	02/19/25 14:57		Mohan	OK
13	Q1231-02	ME2993D	DUP	02/19/25 14:59		Mohan	OK
14	Q1231-03	ME2993S	MS	02/19/25 15:02		Mohan	OK
15	Q1231-04	ME29C1	SAM	02/19/25 15:04		Mohan	OK
16	Q1231-05	ME29C2	SAM	02/19/25 15:06		Mohan	OK
17	Q1231-06	ME29C3	SAM	02/19/25 15:08		Mohan	OK
18	Q1231-07	ME29C4	SAM	02/19/25 15:11		Mohan	OK

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ICV Standard	MP84574
CCV Standard	MP84576
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84575,MP84577,MP84581

19	Q1255-01	MDCZM3	SAM	02/19/25 15:13		Mohan	OK
20	Q1255-02	MDCZP0	SAM	02/19/25 15:15		Mohan	OK
21	Q1255-03	MDCZP1	SAM	02/19/25 15:17		Mohan	OK
22	Q1255-04	MDCZP5	SAM	02/19/25 15:20		Mohan	OK
23	Q1255-05	MDCZM4	SAM	02/19/25 15:22		Mohan	OK
24	Q1255-06	MDCZN3	SAM	02/19/25 15:24		Mohan	OK
25	Q1255-07	MDCZP2	SAM	02/19/25 15:27		Mohan	OK
26	Q1255-08	MDCZN8	SAM	02/19/25 15:29		Mohan	OK
27	Q1255-09	MDCZN8D	DUP	02/19/25 15:31		Mohan	OK
28	Q1255-10	MDCZN8S	MS	02/19/25 15:33		Mohan	OK
29	Q1255-11	MDCZL6	SAM	02/19/25 15:36		Mohan	OK
30	Q1255-12	MDCZL9	SAM	02/19/25 15:38		Mohan	OK
31	CCV088	CCV088	CCV	02/19/25 15:41		Mohan	OK
32	CCB088	CCB088	CCB	02/19/25 15:43		Mohan	OK
33	Q1255-13	MDCZN9	SAM	02/19/25 15:46		Mohan	OK
34	Q1255-14	MDCZN2	SAM	02/19/25 15:48		Mohan	OK
35	Q1255-15	MDCZN7	SAM	02/19/25 15:50		Mohan	OK
36	Q1255-16	MDCZP4	SAM	02/19/25 15:52		Mohan	OK
37	PB166783BL	PBW783	MB	02/19/25 15:55		Mohan	OK
38	Q1245-05	A6327	SAM	02/19/25 16:01		Mohan	OK

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CCV Standard	MP84576
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84575,MP84577,MP84581

39	Q1245-06	A6328	SAM	02/19/25 16:04		Mohan	OK
40	Q1245-07	A6329	SAM	02/19/25 16:06		Mohan	OK
41	Q1245-08	A6330	SAM	02/19/25 16:08		Mohan	OK
42	Q1245-09	A6335	SAM	02/19/25 16:10		Mohan	OK
43	Q1245-10	A6335D	DUP	02/19/25 16:13		Mohan	OK
44	Q1245-11	A6335S	MS	02/19/25 16:15		Mohan	OK
45	Q1245-12	A6336	SAM	02/19/25 16:17		Mohan	OK
46	Q1245-13	A6337	SAM	02/19/25 16:19		Mohan	OK
47	Q1245-14	A6338	SAM	02/19/25 16:22		Mohan	OK
48	Q1245-15	A6339	SAM	02/19/25 16:24		Mohan	OK
49	Q1245-16	A6340	SAM	02/19/25 16:26		Mohan	OK
50	Q1245-17	A6341	SAM	02/19/25 16:29		Mohan	OK
51	CCV089	CCV089	CCV	02/19/25 16:31		Mohan	OK
52	CCB089	CCB089	CCB	02/19/25 16:33		Mohan	OK
53	Q1339-01	ME29C5	SAM	02/19/25 16:35		Mohan	OK
54	Q1339-02	ME29C7	SAM	02/19/25 16:38		Mohan	OK
55	Q1339-03	ME29C6	SAM	02/19/25 16:40		Mohan	OK
56	Q1339-04	ME29C9	SAM	02/19/25 16:42		Mohan	OK
57	Q1339-05	ME29D1	SAM	02/19/25 16:44		Mohan	OK
58	Q1339-06	ME29D2	SAM	02/19/25 16:47		Mohan	OK

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ICV Standard	MP84574
CCV Standard	MP84576
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP84575,MP84577,MP84581

59	Q1339-07	ME29D4	SAM	02/19/25 16:49		Mohan	OK
60	Q1339-08	ME29D2D	DUP	02/19/25 16:51		Mohan	OK
61	Q1339-09	ME29D2S	MS	02/19/25 16:54		Mohan	OK
62	Q1245-03	A6315	SAM	02/19/25 16:58		Mohan	OK
63	Q1245-04	A6316	SAM	02/19/25 17:05		Mohan	OK
64	CCV090	CCV090	CCV	02/19/25 17:14		Mohan	OK
65	CCB090	CCB090	CCB	02/19/25 17:19		Mohan	OK

ERA

A Waters Company

Instructions for Catalog # 500QR
Water Pollution Trace Metals

Revision 120823

Description:

- This standard is packaged in a 30 mL screw-top vial containing approximately 28 mL of standard concentrate.
- This concentrate is preserved with approximately 2% (v/v) nitric acid and 0.1% (w/v) tartaric acid.
- The concentrate can be stored at room temperature.
- The diluted standard will contain all the analytes listed in the ranges specified on the data reporting form.

Before you begin:

- The sample resulting from the dilution described below will have a nitric acid concentration of approximately 0.02% before any acid is added. You may add a volume of acid different from the 2 to 5 mL of HNO_3 suggested in order to matrix match your calibration standards or meet any other method criteria.
- If analyzing this standard using colorimetric techniques, it may be necessary to pH adjust the sample prior to analysis. If using colorimetric techniques, it is acceptable to omit the addition of the 2-5 mL nitric acid suggested.
- While it is technically not necessary to digest this standard prior to analysis, digestion should be performed if this is your normal procedure.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of deionized water and approximately 2 to 5 mL of nitric acid to a clean 500 mL class A volumetric flask.
2. Shake the Trace Metals vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 10.0 mL of the concentrate into the 500 mL volumetric flask.
4. Dilute the flask to final volume (500 mL) with deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as µg/L for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Safety Data Sheets (SDS) for all ERA products are available through our website. www.eraqc.com

ERA

A Waters Company

Instructions for Catalog #666QR

WatR™Supply Mercury

Revision 030512

Description:

- This standard is packaged in a 15 mL screw-top vial containing approximately 14 mL of standard concentrate.
- This concentrate is preserved with approximately 1% (v/v) nitric acid and 0.04% (w/v) potassium dichromate.
- The concentrate can be stored at room temperature.
- The diluted standard will contain Mercury in the range specified on the data reporting form.

Before you begin:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- The USEPA *Criteria Document* requires that Mercury be present as a mixture of organic and inorganic forms and must, therefore, be analyzed as Total Mercury.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of deionized water and approximately 2 to 5 mL of nitric acid to a clean 500 mL class A volumetric flask.
2. Shake the Mercury vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 5.0 mL of the concentrate into the 500 mL volumetric flask.
4. Dilute the flask to final volume with deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as µg/L for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Material Safety Data Sheets (MSDS) for all ERA products are available by calling 1-800-372-0122.

ORIGIN ID:HEA (603) 513-1000
KARINA ZAWILINSKI
NOBIS ENGINEERING, INC
18 CHENELL DRIVE

CONCORD, NH 03301
UNITED STATES US

SHIP DATE: 30JAN25
ACTWGT: 40.00 LB
CAD: 109972084/INET4820
DIMS: 24x15x15 IN

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

1-31-25
9:35
2nd

MOUNTAINSIDE NJ 07092
(908) 789-8900
INV:
PO:
REF: D00005.0040412
DEPT:

58CJ3/EC17/C6C4

FedEx Express

J2511124121701uv

FRI - 31 JAN 10:30A
PRIORITY OVERNIGHT

2 of 5
MPS# 0263 **7717 8326 4920**
Mstr# **7717 8326 3096** 0201

07092
EWR
NJ-US

XP KBCA

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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.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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ALLIANCE TECHNICAL GROUP LLC
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(908) 789-8900
INV:
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DEPT:

1-31-25
9:35
2 Day

58CJ3/EC17/C6C4

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J261024121701uv

FRI - 31 JAN 10:30A
PRIORITY OVERNIGHT

3 of 5

MPS# 0263
7717 8326 5147
Mstr# **7717 8326 3096**

0201

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NOBIS ENGINEERING, INC
18 CHENELL DRIVE
CONCORD, NH 03301
UNITED STATES US

SHIP DATE: 30JAN25
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CAD: 109972084/INET4820
DIMS: 24x15x15 IN

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092
(908) 789-8900
INV:
PO:
REF: D00005.004.0412
DEPT:

1-31-25
9:35
2.1

58CJ3/EC17/C6C4

FedEx Express

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FRI - 31 JAN 10:30A
PRIORITY OVERNIGHT

4 of 5
MPS# 0263 **7717 8326 6599**
Mstr# **7717 8326 3096** 0201

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MOUNTAINSIDE NJ 07092
(908) 789-8900
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PO:
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1-31-25
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2.0

58CJ3/EC17/C6C4

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FRI - 31 JAN 10:30A
PRIORITY OVERNIGHT

0201

7717 8326 5331

MPS# 0263
Mstr# 7717 8326 3096

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EWR
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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 :	Q1245	Order Date :	1/31/2025 9:35:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51952	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	1/31/2025 9:35:00 AM	EDD Type :	EPA CLP
Date Sign Off :	1/31/2025 3:24:34 PM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
Q1245-01	A6311	Water	01/09/2025		PT				
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-02	A6312	Water	01/09/2025		PT				
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-03	A6315	Water	01/09/2025		PT				
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
Q1245-04	A6316	Water	01/09/2025		PT				
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
Q1245-05	A6327	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-06	A6328	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-07	A6329	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-08	A6330	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-09	A6335	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-10	A6335D	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-11	A6335S	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-12	A6336	Water	01/29/2025						

				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-13	A6337	Water	01/29/2025		EB				
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-14	A6338	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-15	A6339	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-16	A6340	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025
Q1245-17	A6341	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/21/2025	02/21/2025
				Metals CLP MS		SFAM_MS	15	02/21/2025	02/21/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166535 **WorkList ID :** 187458 **Department :** Digestion **Date :** 02-04-2025 11:56:54

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Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1245-01	A6311	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_MS
Q1245-02	A6312	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_MS
Q1245-05	A6327	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_MS
Q1245-06	A6328	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-07	A6329	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-08	A6330	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-09	A6335	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-10	A6335D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-11	A6335S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-12	A6336	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-13	A6337	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-14	A6338	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1245-15	A6339	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1245-16	A6340	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1245-17	A6341	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS

Date/Time 02/04/25 12:15

Raw Sample Received by: Sled. met. dp

Raw Sample Relinquished by:

Date/Time 02/04/25 13:13

Raw Sample Received by:

Raw Sample Relinquished by: Sled. met. dp.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1245/1339_HgW **WorkList ID :** 187758 **Department :** Digestion **Date :** 02-18-2025 16:15:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1245-03	A6315	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_HG
Q1245-04	A6316	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_HG
Q1245-05	A6327	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/09/2025	SFAM_HG
Q1245-06	A6328	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-07	A6329	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-08	A6330	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-09	A6335	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-10	A6335D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-11	A6335S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-12	A6336	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-13	A6337	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-14	A6338	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1245-15	A6339	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1245-16	A6340	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1245-17	A6341	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1339-01	ME29C5	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1339-02	ME29C7	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/04/2025	SFAM_HG
Q1339-03	ME29C6	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/04/2025	SFAM_HG
Q1339-04	ME29C9	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/04/2025	SFAM_HG
Q1339-05	ME29D1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/04/2025	SFAM_HG
Q1339-06	ME29D2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/05/2025	SFAM_HG

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Date/Time 2/19/25 @ 10:35

Raw Sample Received by: [illegible] - DHL Lab

Raw Sample Relinquished by: [illegible] - DHL Lab

Date/Time 2/19/25 @ 11:30

Raw Sample Received by: [illegible] DHL Lab

Raw Sample Relinquished by: [illegible] - DHL Lab

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1245/1339_HgW **WorkList ID :** 187758 **Department :** Digestion **Date :** 02-18-2025 16:15:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1339-07	ME29D4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/05/2025	SFAM_HG
Q1339-08	ME29D2D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/05/2025	SFAM_HG
Q1339-09	ME29D2S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/05/2025	SFAM_HG

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Date/Time 2/19/25 @ 10:33

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 2/19/25 @ 13:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]