SDG COVER PAGE

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

Lab Code: ACE Case No.: 51967 MA No.: SDG No.: MDCZM3

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MDCZM3	Q1255-01		X	X	
MDCZP0	Q1255-02		X	X	
MDCZP1	Q1255-03		X	X	
MDCZP5	Q1255-04		X	X	
MDCZM4	Q1255-05		X	X	
MDCZN3	Q1255-06		X	X	
MDCZP2	Q1255-07		X	X	
MDCZN8	Q1255-08		X	X	
MDCZN8D	Q1255-09		X	X	
MDCZN8S	Q1255-10		X	X	
MDCZL6	Q1255-11		X	X	
MDCZL9	Q1255-12		X	X	
MDCZN9	Q1255-13		X	X	
MDCZN2	Q1255-14		X	X	
MDCZN7	Q1255-15		X	X	
MDCZP4	Q1255-16		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 9221 7911 2321 4757 SDG# MDCZM3

Page 1 of 1

SDG# MDCZM3

USEPA Region 4 COC (LAB COPY)
Case #: 51967
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD

Project Number: 25-0119
DateShipped: 1/30/2025

No: 01/30/25-0035
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
TB1-0125	DCZK2	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670039 (HCl) (6)	#R4DART#	01/29/2025 18:00	
PW01-0125	DCZM3	Grounidwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670108 (HCl), 519670109 (None), 519670110 (None) (10)	PW01	01/29/2025 08:50	
PW01-0125	MDCZM3	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670112 (HNO3) (1)	PW01	01/29/2025 08:50	✓ pH 1.3

Special Instructions: Alliance Tech cooler #1

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, PEST=CLP Pesticides, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TYLER SCHLEMM	1/30/25 1700		01/31/25 0935	2.1°C Temp blank present IR Gun #1
					Custody Seal Intact

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68HERH20D0011

7716 6529 7622

SDG # MDCZM3

USEPA Region 4 COC (LAB COPY)

Case #: 51967

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

SDG# MDCZM3

Project Number: 25-0119

DateShipped: 1/30/2025

No: 01/30/25-0036

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
TB2-0125	DCZK3	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670040 (HCl) (6)	#R4DART#	01/29/2025 18:00	
GW192-0125	DCZP0	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670283 (HCl), 519670284 (None), 519670285 (None) (10)	SP192	01/29/2025 13:15	
GW193-0125	DCZP1	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670290 (HCl), 519670291 (None), 519670292 (None) (10)	SP193	01/29/2025 14:30	
GW341-0125	DCZP5	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670318 (HCl), 519670319 (None), 519670320 (None) (10)	SP341	01/29/2025 15:40	
GW192-0125	MDCZP0	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670287 (HNO3) (1)	SP192	01/29/2025 13:15	✓ pH 1.3
GW193-0125	MDCZP1	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670294 (HNO3) (1)	SP193	01/29/2025 14:30	✓ pH 1.3
GW341-0125	MDCZP5	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670322 (HNO3) (1)	SP341	01/29/2025 15:40	✓ pH 1.3

Special Instructions: Alliance Tech cooler #2

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, PEST=CLP Pesticides, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TYLER SCHLEMM	1/30/25 1700		01/31/25 0935	2°C Temp blank present IR Gun #1
					Custody Seal Intact

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68HERH20D0011 7714 6528 1450 SDG #MDCZM3

Page 1 of 1

USEPA Region 4 COC (LAB COPY)

Case #: 51967
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD

Project Number: 25-0119
DateShipped: 1/30/2025

SDG# MDCZM3

No: 01/30/25-0037

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
TB3-0125	DCZK4	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670041 (HCl) (6)	#R4DART#	01/29/2025 18:00	
GW156-0125	DCZM4	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670115 (HCl), 519670116 (None), 519670117 (None) (10)	SP156	01/29/2025 11:00	
GW183-0125	DCZN3	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA(21), PEST(21)	519670234 (HCl), 519670235 (None), 519670236 (None) (10)	SP183	01/29/2025 13:55	
GW194-0125	DCZP2	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670297 (HCl), 519670298 (None), 519670299 (None) (10)	SP194	01/29/2025 15:42	
GW156-0125	MDCZM4	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670119 (HNO3) (1)	SP156	01/29/2025 11:00	✓ pH 1-3
GW183-0125	MDCZN3	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670238 (HNO3) (1)	SP183	01/29/2025 13:55	✓ pH 1-3
GW194-0125	MDCZP2	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670301 (HNO3) (1)	SP194	01/29/2025 15:42	✓ pH 1-3

Special Instructions: Alliance Tech cooler #3

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, PEST=CLP Pesticides, SVOA=CLP Semivolatiles, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	TYLER SCHLEMM	1/30/25 1700		01/31/25 09:35	1.8c Temp blank pres'd IR Gun #1
					Custody Seal Intact

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68HERH20D0011

SDG # MDCZM3 7779362365

USEPA Region 4 COC (LAB COPY)
Case #: 51967
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Project Number: 25-0119
DateShipped: 1/31/2025

SDG# MDCZM3

No: 01/31/25-0042
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

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Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
TB4-0125	DCZK5	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670042 (HCl) (6)	#R4DART#	01/30/2025 18:00	
GW191-0125	DCZN8	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670269 (HCl), 519670270 (None), 519670271 (None) (24)	SP191	01/30/2025 14:32	
GW191-0125	MDCZN8	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670273 (HNO3) (4)	SP191	01/30/2025 14:32	QV pH 1.0

Sample(s) to be used for Lab QC: GW191-0125 Tag 519670269, GW191-0125 Tag 519670270, GW191-0125 Tag 519670271, GW191-0125 Tag 519670273 - Special Instructions: Alliance Tech cooler #1

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, PEST=CLP Pesticides, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	AECOM	1/31/25 1800		2/1/25	1.5° IR cm
				9:25	Trip blank
					Cool on ice

68HERH20D0011 7779152078 SDG# MDCZM3

USEPA Region 4 COC (LAB COPY)
Case #: 51967
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Project Number: 25-0119
DateShipped: 1/31/2025

SDG# MDCZM3

No: 01/31/25-0043
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
TB5-0125	DCZK6	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670043 (HCl) (6)	#R4DART#	01/30/2025 18:00	
GW173-0125	DCZL6	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA(21), PEST(21)	519670143 (HCl), 519670144 (None), 519670145 (None) (10)	SP173	01/30/2025 12:15	
GW175-0125	DCZL9	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670164 (HCl), 519670165 (None), 519670166 (None) (10)	SP175	01/30/2025 17:35	
GW191-9125	DCZN9	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670276 (HCl), 519670277 (None), 519670278 (None) (10)	SP191	01/30/2025 14:32	
GW173-0125	MDCZL6	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670147 (HNO3) (1)	SP173	01/30/2025 12:15	PH 1.0
GW175-0125	MDCZL9	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670168 (HNO3) (1)	SP175	01/30/2025 17:35	1
GW191-9125	MDCZN9	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670280 (HNO3) (1)	SP191	01/30/2025 14:32	

Special Instructions: Alliance Tech cooler #2

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA=CLP Semivolatiles, PEST=CLP Pesticides, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	AECOM	1/31/25 1500		2/1/25	1.8° IR gun #1
				9:25	Temp blank
					Custody Seal

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68HERH20D0011 SDG# MDCZM3 7770H72272

USEPA Region 4 COC (LAB COPY)
Case #: 51967
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD

Project Number: 25-0119
DateShipped: 1/31/2025

SDG# MDCZM3

No: 01/31/25-0044
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservation/Bottles	Location	Collection Date/Time	For Lab Use Only
GW182-0125	DCZN2	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670227 (HCl), 519670228 (None), 519670229 (None) (10)	SP182	01/30/2025 16:05	
GW187-0125	DCZN7	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA(21), PEST(21)	519670262 (HCl), 519670263 (None), 519670264 (None) (10)	SP187	01/30/2025 10:20	
GW340-0125	DCZP4	Groundwater/ McDaniel/Schlemm	Discrete Interval	TVOA + SIM(21), SVOA + SIM-MA(21), PEST(21)	519670311 (HCl), 519670312 (None), 519670313 (None) (10)	SP340	01/30/2025 14:25	
TB6-0125	DCZP9	Trip Blank Water/ McDaniel/Schlemm	Grab	TVOA + SIM(21)	519670001 (HCl) (6)	#R4DART#	01/30/2025 18:00	
GW182-0125	MDCZN2	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670231 (HNO3) (1)	SP182	01/30/2025 16:05	pH 1.0
GW187-0125	MDCZN7	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670266 (HNO3) (1)	SP187	01/30/2025 10:20	1
GW340-0125	MDCZP4	Groundwater/ McDaniel/Schlemm	Discrete Interval	ICP-MS/Hg(21)	519670315 (HNO3) (1)	SP340	01/30/2025 14:25	1

Special Instructions: Alliance Tech cooler #3

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TVOA + SIM=CLP Trace Volatiles w/ SIM, SVOA + SIM-MA=CLP Semivolatiles + SIM MA3096.1, PEST=CLP Pesticides, SVOA=CLP Semivolatiles, ICP-MS/Hg=CLP ICP-MS Metals/Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	AECOM	1/31/25 1500		2/1/25 9:25	2.1 IR#1 Temp blank Pan Custody Seal Pan

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FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 6
Received By (Print Name) Cassanova Rina		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771665148941 1
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	MDCZM3	1.3	519670112	Q1255-01	Intact
2	N/A	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A
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 2 of 6
Received By (Print Name) Casanova Reina		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771665297622 2
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	MDCZP0	1.3	519670287	Q1255-02	Intact
2	MDCZP1	1.3	519670294	Q1255-03	Intact
3	MDCZP5	1.3	519670322	Q1255-04	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 3 of 6
Received By (Print Name) Cassandra Reis		Log-in Date 1/31/2025
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771665281450 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	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	MDCZM4	1.3	519670119	Q1255-05	Intact
2	MDCZN3	1.3	519670238	Q1255-06	Intact
3	MDCZP2	1.3	519670301	Q1255-07	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 1
Received By (Print Name) Casanova Reia		Log-in Date 2/1/2025
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771794362365 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.5 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	02/01/2025
12.Time Received	09:25

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MDCZN8	1.0	519670273	Q1255-08	Intact
2	MDCZN8D	1.0	519670273	Q1255-09	Intact
3	MDCZN8S	1.0	519670273	Q1255-10	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 2/1/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 5 of 6
Received By (Print Name) Cessarova Reia		Log-in Date **2/1/2025**
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771794520787 5
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.8 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	02/01/2025
12.Time Received	09:25

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MDCZL6	1.0	519670147	Q1255-11	Intact
2	MDCZL9	1.0	519670168	Q1255-12	Intact
3	MDCZN9	1.0	519670280	Q1255-13	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 2/1/25	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 6 of 6
Received By (Print Name) Cassandra Pena		Log-in Date 2/1/2025
Received By (Signature)		
Case Number 51967	SDG No. MDCZM3	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.	771794672272 6
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	02/01/2025
12.Time Received	09:25

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MDCZN2	1.0	519670231	Q1255-14	Intact
2	MDCZN7	1.0	519670266	Q1255-15	Intact
3	MDCZP4	1.0	519670315	Q1255-16	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	2/1/25	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.	**51967**	SDG NO.	**MDCZM3**
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	7	✓	
3. Sample Log-In Sheet (DC-1)	8	13	✓	
4. CSF Inventory Sheet (DC-2)	14	16	✓	
5. SDG Narrative	17	20	✓	
6. Communication Logs	NA	NA	✓	
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	21	34	✓	
18. Instrument raw data by instrument in analysis order	35	696	✓	
Other Data				
19. Standard and Reagent Preparation Logs	697	838	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	839	840	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	841	846	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	847	860	✓	
27. Instrument raw data by instrument in analysis order	861	863	✓	
Other Data				
28. Standard and Reagent Preparation Logs	864	891	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	892	893	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	894	897	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33. Raw GPC Data	NA	NA	✓	
34. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
37. Standard and Reagent Preparation Logs	NA	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42. Raw GPC Data	NA	NA	✓	
43. Raw Florisil Data	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 6)	898	903	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	904	905	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	906	908	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

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

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

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MDCZM3
CASE # 51967
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1255

A. Number of Samples and Date of Receipt

14 Water samples were delivered to the laboratory intact on 01/31/2025, 02/01/2025.

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: 2.1°C, 2.0°C, 1.8°C, 1.5°C.

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

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

E. Corrective Action taken for above:

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

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 MDCZM3 For Aluminum:

If C = 11.25 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result (µg/L)} = 11.25 \times \frac{50}{50} \times 1$$

$$= 11.25 \text{ µg/L}$$

$$= 11 \text{ µg/L (Reported Result with Signification)}$$

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 MDCZP0:

If C = 0.0381 ppb
DF = 1

$$\text{Concentration or Result (µg/L)} = 0.0381 \times 1$$

$$= 0.0381 \text{ µg/L}$$

$$= 0.038 \text{ µg/L (Reported Result with Signification)}$$

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. 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
Potassium	45Sc

284 Sheffield Street
Mountainside, NJ 07092

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

EPA SAMPLE NO.

MDCZL6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-11

% Solids: Date Received: 02/01/2025

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	95		02/11/2025	1617
7440-36-0	Antimony	2.0	U	02/11/2025	1617
7440-38-2	Arsenic	1.0		02/11/2025	1617
7440-39-3	Barium	71		02/11/2025	1617
7440-41-7	Beryllium	0.31	J	02/11/2025	1617
7440-43-9	Cadmium	1.0	U	02/11/2025	1617
7440-70-2	Calcium	19000		02/11/2025	1617
7440-47-3	Chromium	1.2	J	02/11/2025	1617
7440-48-4	Cobalt	7.5		02/11/2025	1617
7440-50-8	Copper	2.0	U	02/11/2025	1617
7439-89-6	Iron	17000		02/11/2025	1617
7439-92-1	Lead	1.6		02/11/2025	1617
7439-95-4	Magnesium	6400		02/11/2025	1617
7439-96-5	Manganese	1200		02/11/2025	1617
7440-02-0	Nickel	8.5		02/11/2025	1617
7440-09-7	Potassium	740		02/11/2025	1617
7782-49-2	Selenium	5.0	U*	02/11/2025	1617
7440-22-4	Silver	1.0	U	02/11/2025	1617
7440-23-5	Sodium	47000		02/11/2025	1617
7440-28-0	Thallium	1.0	U	02/11/2025	1617
7440-62-2	Vanadium	0.57	J	02/11/2025	1617
7440-66-6	Zinc	60		02/11/2025	1617

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

Comments:

EPA SAMPLE NO.

MDCZL9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-12

% Solids: Date Received: 02/01/2025

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	02/11/2025	1632
7440-36-0	Antimony	2.0	U	02/11/2025	1632
7440-38-2	Arsenic	5.8		02/11/2025	1632
7440-39-3	Barium	39		02/11/2025	1632
7440-41-7	Beryllium	0.12	J	02/11/2025	1632
7440-43-9	Cadmium	1.0	U	02/11/2025	1632
7440-70-2	Calcium	12000		02/11/2025	1632
7440-47-3	Chromium	0.35	J	02/11/2025	1632
7440-48-4	Cobalt	2.6		02/11/2025	1632
7440-50-8	Copper	1.1	J	02/11/2025	1632
7439-89-6	Iron	13000		02/11/2025	1632
7439-92-1	Lead	1.0	U	02/11/2025	1632
7439-95-4	Magnesium	3000		02/11/2025	1632
7439-96-5	Manganese	670		02/11/2025	1632
7440-02-0	Nickel	3.8		02/11/2025	1632
7440-09-7	Potassium	770		02/11/2025	1632
7782-49-2	Selenium	5.0	U*	02/11/2025	1632
7440-22-4	Silver	1.0	U	02/11/2025	1632
7440-23-5	Sodium	100000		02/11/2025	1632
7440-28-0	Thallium	1.0	U	02/11/2025	1632
7440-62-2	Vanadium	0.61	J	02/11/2025	1632
7440-66-6	Zinc	4.4	J	02/11/2025	1632

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

Comments:

EPA SAMPLE NO.

MDCZM3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-01

% 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	11	J	02/11/2025	1541
7440-36-0	Antimony	2.0	U	02/11/2025	1541
7440-38-2	Arsenic	1.0	U	02/11/2025	1541
7440-39-3	Barium	2.3	J	02/11/2025	1541
7440-41-7	Beryllium	1.0	U	02/11/2025	1541
7440-43-9	Cadmium	1.0	U	02/11/2025	1541
7440-70-2	Calcium	720		02/11/2025	1541
7440-47-3	Chromium	0.23	J	02/11/2025	1541
7440-48-4	Cobalt	1.0	U	02/11/2025	1541
7440-50-8	Copper	2.0	U	02/11/2025	1541
7439-89-6	Iron	200	U	02/11/2025	1541
7439-92-1	Lead	1.0	U	02/11/2025	1541
7439-95-4	Magnesium	40	J	02/11/2025	1541
7439-96-5	Manganese	3.8		02/11/2025	1541
7440-02-0	Nickel	0.26	J	02/11/2025	1541
7440-09-7	Potassium	470	J	02/11/2025	1541
7782-49-2	Selenium	5.0	U*	02/11/2025	1541
7440-22-4	Silver	1.0	U	02/11/2025	1541
7440-23-5	Sodium	100000		02/11/2025	1541
7440-28-0	Thallium	1.0	U	02/11/2025	1541
7440-62-2	Vanadium	0.22	J	02/11/2025	1541
7440-66-6	Zinc	0.80	J	02/11/2025	1541

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

Comments:

EPA SAMPLE NO.

MDCZM4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-05

% 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	20	U	02/11/2025	1554
7440-36-0	Antimony	2.0	U	02/11/2025	1554
7440-38-2	Arsenic	1.0	U	02/11/2025	1554
7440-39-3	Barium	100		02/11/2025	1554
7440-41-7	Beryllium	1.0	U	02/11/2025	1554
7440-43-9	Cadmium	1.0	U	02/11/2025	1554
7440-70-2	Calcium	36000		02/11/2025	1554
7440-47-3	Chromium	0.46	J	02/11/2025	1554
7440-48-4	Cobalt	1.0	U	02/11/2025	1554
7440-50-8	Copper	2.0	U	02/11/2025	1554
7439-89-6	Iron	130	J	02/11/2025	1554
7439-92-1	Lead	0.43	J	02/11/2025	1554
7439-95-4	Magnesium	6000		02/11/2025	1554
7439-96-5	Manganese	32		02/11/2025	1554
7440-02-0	Nickel	1.0		02/11/2025	1554
7440-09-7	Potassium	1600		02/11/2025	1554
7782-49-2	Selenium	5.0	U*	02/11/2025	1554
7440-22-4	Silver	1.0	U	02/11/2025	1554
7440-23-5	Sodium	11000		02/11/2025	1554
7440-28-0	Thallium	1.0	U	02/11/2025	1554
7440-62-2	Vanadium	5.0	U	02/11/2025	1554
7440-66-6	Zinc	4.9	J	02/11/2025	1554

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

Comments:

EPA SAMPLE NO.

MDCZN2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-14

% Solids: Date Received: 02/01/2025

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	9.9	J	02/11/2025	1639
7440-36-0	Antimony	2.0	U	02/11/2025	1639
7440-38-2	Arsenic	0.32	J	02/11/2025	1639
7440-39-3	Barium	35		02/11/2025	1639
7440-41-7	Beryllium	0.12	J	02/11/2025	1639
7440-43-9	Cadmium	1.0	U	02/11/2025	1639
7440-70-2	Calcium	7600		02/11/2025	1639
7440-47-3	Chromium	1.5	J	02/11/2025	1639
7440-48-4	Cobalt	0.94	J	02/11/2025	1639
7440-50-8	Copper	2.0	U	02/11/2025	1639
7439-89-6	Iron	2000		02/11/2025	1639
7439-92-1	Lead	1.0	U	02/11/2025	1639
7439-95-4	Magnesium	3700		02/11/2025	1639
7439-96-5	Manganese	680		02/11/2025	1639
7440-02-0	Nickel	17		02/11/2025	1639
7440-09-7	Potassium	540		02/11/2025	1639
7782-49-2	Selenium	5.0	U*	02/11/2025	1639
7440-22-4	Silver	1.0	U	02/11/2025	1639
7440-23-5	Sodium	110000		02/11/2025	1639
7440-28-0	Thallium	1.0	U	02/11/2025	1639
7440-62-2	Vanadium	1.9	J	02/11/2025	1639
7440-66-6	Zinc	1.7	J	02/11/2025	1639

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

Comments:

EPA SAMPLE NO.

MDCZN3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-06

% 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	9.2	J	02/11/2025	1558
7440-36-0	Antimony	2.0	U	02/11/2025	1558
7440-38-2	Arsenic	0.19	J	02/11/2025	1558
7440-39-3	Barium	31		02/11/2025	1558
7440-41-7	Beryllium	0.080	J	02/11/2025	1558
7440-43-9	Cadmium	1.0	U	02/11/2025	1558
7440-70-2	Calcium	4100		02/11/2025	1558
7440-47-3	Chromium	0.97	J	02/11/2025	1558
7440-48-4	Cobalt	3.7		02/11/2025	1558
7440-50-8	Copper	2.0	U	02/11/2025	1558
7439-89-6	Iron	180	J	02/11/2025	1558
7439-92-1	Lead	1.0	U	02/11/2025	1558
7439-95-4	Magnesium	770		02/11/2025	1558
7439-96-5	Manganese	120		02/11/2025	1558
7440-02-0	Nickel	4.7		02/11/2025	1558
7440-09-7	Potassium	780		02/11/2025	1558
7782-49-2	Selenium	5.0	U*	02/11/2025	1558
7440-22-4	Silver	1.0	U	02/11/2025	1558
7440-23-5	Sodium	25000		02/11/2025	1558
7440-28-0	Thallium	1.0	U	02/11/2025	1558
7440-62-2	Vanadium	0.18	J	02/11/2025	1558
7440-66-6	Zinc	5.8		02/11/2025	1558

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

Comments:

EPA SAMPLE NO.

MDCZN7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-15

% Solids: Date Received: 02/01/2025

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	67		02/11/2025	1642
7440-36-0	Antimony	0.16	J	02/11/2025	1642
7440-38-2	Arsenic	2.7		02/11/2025	1642
7440-39-3	Barium	68		02/11/2025	1642
7440-41-7	Beryllium	0.37	J	02/11/2025	1642
7440-43-9	Cadmium	1.0	U	02/11/2025	1642
7440-70-2	Calcium	21000		02/11/2025	1642
7440-47-3	Chromium	0.82	J	02/11/2025	1642
7440-48-4	Cobalt	8.4		02/11/2025	1642
7440-50-8	Copper	1.9	J	02/11/2025	1642
7439-89-6	Iron	1800		02/11/2025	1642
7439-92-1	Lead	0.49	J	02/11/2025	1642
7439-95-4	Magnesium	2000		02/11/2025	1642
7439-96-5	Manganese	490		02/11/2025	1642
7440-02-0	Nickel	4.4		02/11/2025	1642
7440-09-7	Potassium	1000		02/11/2025	1642
7782-49-2	Selenium	5.0	U*	02/11/2025	1642
7440-22-4	Silver	1.0	U	02/11/2025	1642
7440-23-5	Sodium	12000		02/11/2025	1642
7440-28-0	Thallium	1.0	U	02/11/2025	1642
7440-62-2	Vanadium	2.3	J	02/11/2025	1642
7440-66-6	Zinc	24		02/11/2025	1642

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

Comments:

EPA SAMPLE NO.

MDCZN8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-08

% Solids: Date Received: 02/01/2025

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	33		02/11/2025	1604
7440-36-0	Antimony	2.0	U	02/11/2025	1604
7440-38-2	Arsenic	0.35	J	02/11/2025	1604
7440-39-3	Barium	87		02/11/2025	1604
7440-41-7	Beryllium	0.28	J	02/11/2025	1604
7440-43-9	Cadmium	1.0	U	02/11/2025	1604
7440-70-2	Calcium	5500		02/11/2025	1604
7440-47-3	Chromium	0.64	J	02/11/2025	1604
7440-48-4	Cobalt	3.5		02/11/2025	1604
7440-50-8	Copper	2.0	U	02/11/2025	1604
7439-89-6	Iron	210		02/11/2025	1604
7439-92-1	Lead	1.0	U	02/11/2025	1604
7439-95-4	Magnesium	1700		02/11/2025	1604
7439-96-5	Manganese	210		02/11/2025	1604
7440-02-0	Nickel	9.0		02/11/2025	1604
7440-09-7	Potassium	790		02/11/2025	1604
7782-49-2	Selenium	5.0	U*	02/11/2025	1604
7440-22-4	Silver	1.0	U	02/11/2025	1604
7440-23-5	Sodium	28000		02/11/2025	1604
7440-28-0	Thallium	1.0	U	02/11/2025	1604
7440-62-2	Vanadium	0.21	J	02/11/2025	1604
7440-66-6	Zinc	12		02/11/2025	1604

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

Comments:

EPA SAMPLE NO.

MDCZN9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-13

% Solids: Date Received: 02/01/2025

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	33		02/11/2025	1636
7440-36-0	Antimony	2.0	U	02/11/2025	1636
7440-38-2	Arsenic	0.36	J	02/11/2025	1636
7440-39-3	Barium	88		02/11/2025	1636
7440-41-7	Beryllium	0.31	J	02/11/2025	1636
7440-43-9	Cadmium	1.0	U	02/11/2025	1636
7440-70-2	Calcium	5600		02/11/2025	1636
7440-47-3	Chromium	0.98	J	02/11/2025	1636
7440-48-4	Cobalt	3.6		02/11/2025	1636
7440-50-8	Copper	2.0	U	02/11/2025	1636
7439-89-6	Iron	220		02/11/2025	1636
7439-92-1	Lead	1.0	U	02/11/2025	1636
7439-95-4	Magnesium	1700		02/11/2025	1636
7439-96-5	Manganese	210		02/11/2025	1636
7440-02-0	Nickel	9.0		02/11/2025	1636
7440-09-7	Potassium	800		02/11/2025	1636
7782-49-2	Selenium	5.0	U*	02/11/2025	1636
7440-22-4	Silver	1.0	U	02/11/2025	1636
7440-23-5	Sodium	28000		02/11/2025	1636
7440-28-0	Thallium	1.0	U	02/11/2025	1636
7440-62-2	Vanadium	0.22	J	02/11/2025	1636
7440-66-6	Zinc	12		02/11/2025	1636

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

Comments:

EPA SAMPLE NO.

MDCZP0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-02

% 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	39		02/11/2025	1545
7440-36-0	Antimony	2.0	U	02/11/2025	1545
7440-38-2	Arsenic	0.55	J	02/11/2025	1545
7440-39-3	Barium	26		02/11/2025	1545
7440-41-7	Beryllium	0.16	J	02/11/2025	1545
7440-43-9	Cadmium	1.0	U	02/11/2025	1545
7440-70-2	Calcium	1200		02/11/2025	1545
7440-47-3	Chromium	0.80	J	02/11/2025	1545
7440-48-4	Cobalt	4.8		02/11/2025	1545
7440-50-8	Copper	2.0	U	02/11/2025	1545
7439-89-6	Iron	400		02/11/2025	1545
7439-92-1	Lead	1.0	U	02/11/2025	1545
7439-95-4	Magnesium	330	J	02/11/2025	1545
7439-96-5	Manganese	120		02/11/2025	1545
7440-02-0	Nickel	2.6		02/11/2025	1545
7440-09-7	Potassium	480	J	02/11/2025	1545
7782-49-2	Selenium	5.0	U*	02/11/2025	1545
7440-22-4	Silver	1.0	U	02/11/2025	1545
7440-23-5	Sodium	10000		02/11/2025	1545
7440-28-0	Thallium	1.0	U	02/11/2025	1545
7440-62-2	Vanadium	0.16	J	02/11/2025	1545
7440-66-6	Zinc	5.0		02/11/2025	1545

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

Comments:

EPA SAMPLE NO.

MDCZP1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-03

% 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	40		02/11/2025	1548
7440-36-0	Antimony	2.0	U	02/11/2025	1548
7440-38-2	Arsenic	0.42	J	02/11/2025	1548
7440-39-3	Barium	60		02/11/2025	1548
7440-41-7	Beryllium	0.080	J	02/11/2025	1548
7440-43-9	Cadmium	1.0	U	02/11/2025	1548
7440-70-2	Calcium	8800		02/11/2025	1548
7440-47-3	Chromium	0.38	J	02/11/2025	1548
7440-48-4	Cobalt	35		02/11/2025	1548
7440-50-8	Copper	2.0	U	02/11/2025	1548
7439-89-6	Iron	67	J	02/11/2025	1548
7439-92-1	Lead	1.0	U	02/11/2025	1548
7439-95-4	Magnesium	1900		02/11/2025	1548
7439-96-5	Manganese	1300		02/11/2025	1548
7440-02-0	Nickel	12		02/11/2025	1548
7440-09-7	Potassium	1100		02/11/2025	1548
7782-49-2	Selenium	5.0	U*	02/11/2025	1548
7440-22-4	Silver	1.0	U	02/11/2025	1548
7440-23-5	Sodium	61000		02/11/2025	1548
7440-28-0	Thallium	1.0	U	02/11/2025	1548
7440-62-2	Vanadium	0.38	J	02/11/2025	1548
7440-66-6	Zinc	16		02/11/2025	1548

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

Comments:

EPA SAMPLE NO.

MDCZP2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-07

% 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	77		02/11/2025	1601
7440-36-0	Antimony	2.0	U	02/11/2025	1601
7440-38-2	Arsenic	1.5		02/11/2025	1601
7440-39-3	Barium	83		02/11/2025	1601
7440-41-7	Beryllium	1.0	U	02/11/2025	1601
7440-43-9	Cadmium	1.0	U	02/11/2025	1601
7440-70-2	Calcium	14000		02/11/2025	1601
7440-47-3	Chromium	0.60	J	02/11/2025	1601
7440-48-4	Cobalt	0.95	J	02/11/2025	1601
7440-50-8	Copper	2.0	U	02/11/2025	1601
7439-89-6	Iron	4700		02/11/2025	1601
7439-92-1	Lead	0.24	J	02/11/2025	1601
7439-95-4	Magnesium	6900		02/11/2025	1601
7439-96-5	Manganese	940		02/11/2025	1601
7440-02-0	Nickel	13		02/11/2025	1601
7440-09-7	Potassium	1700		02/11/2025	1601
7782-49-2	Selenium	1.4	J*	02/11/2025	1601
7440-22-4	Silver	1.0	U	02/11/2025	1601
7440-23-5	Sodium	95000		02/11/2025	1601
7440-28-0	Thallium	1.0	U	02/11/2025	1601
7440-62-2	Vanadium	2.2	J	02/11/2025	1601
7440-66-6	Zinc	1.7	J	02/11/2025	1601

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

Comments:

EPA SAMPLE NO.

MDCZP4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-16

% Solids: Date Received: 02/01/2025

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	47		02/11/2025	1646
7440-36-0	Antimony	2.0	U	02/11/2025	1646
7440-38-2	Arsenic	3.9		02/11/2025	1646
7440-39-3	Barium	52		02/11/2025	1646
7440-41-7	Beryllium	1.0	U	02/11/2025	1646
7440-43-9	Cadmium	1.0	U	02/11/2025	1646
7440-70-2	Calcium	11000		02/11/2025	1646
7440-47-3	Chromium	0.18	J	02/11/2025	1646
7440-48-4	Cobalt	2.4		02/11/2025	1646
7440-50-8	Copper	2.0	U	02/11/2025	1646
7439-89-6	Iron	6000		02/11/2025	1646
7439-92-1	Lead	1.0	U	02/11/2025	1646
7439-95-4	Magnesium	2200		02/11/2025	1646
7439-96-5	Manganese	160		02/11/2025	1646
7440-02-0	Nickel	4.1		02/11/2025	1646
7440-09-7	Potassium	620		02/11/2025	1646
7782-49-2	Selenium	5.0	U*	02/11/2025	1646
7440-22-4	Silver	1.0	U	02/11/2025	1646
7440-23-5	Sodium	28000		02/11/2025	1646
7440-28-0	Thallium	1.0	U	02/11/2025	1646
7440-62-2	Vanadium	0.12	J	02/11/2025	1646
7440-66-6	Zinc	7.5		02/11/2025	1646

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

Comments:

EPA SAMPLE NO.

MDCZP5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-04

% 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	210		02/11/2025	1551
7440-36-0	Antimony	2.0	U	02/11/2025	1551
7440-38-2	Arsenic	36		02/11/2025	1551
7440-39-3	Barium	280		02/11/2025	1551
7440-41-7	Beryllium	1.0	U	02/11/2025	1551
7440-43-9	Cadmium	1.0	U	02/11/2025	1551
7440-70-2	Calcium	7000		02/11/2025	1551
7440-47-3	Chromium	0.82	J	02/11/2025	1551
7440-48-4	Cobalt	18		02/11/2025	1551
7440-50-8	Copper	2.0	U	02/11/2025	1551
7439-89-6	Iron	51000		02/11/2025	1551
7439-92-1	Lead	0.38	J	02/11/2025	1551
7439-95-4	Magnesium	2800		02/11/2025	1551
7439-96-5	Manganese	1500		02/11/2025	1551
7440-02-0	Nickel	22		02/11/2025	1551
7440-09-7	Potassium	2700		02/11/2025	1551
7782-49-2	Selenium	5.0	U*	02/11/2025	1551
7440-22-4	Silver	1.0	U	02/11/2025	1551
7440-23-5	Sodium	46000		02/11/2025	1551
7440-28-0	Thallium	1.0	U	02/11/2025	1551
7440-62-2	Vanadium	0.43	J	02/11/2025	1551
7440-66-6	Zinc	11		02/11/2025	1551

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

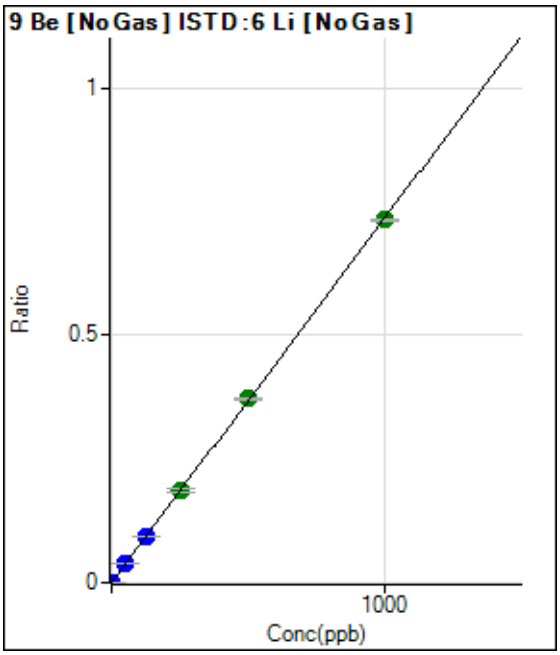
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Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

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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

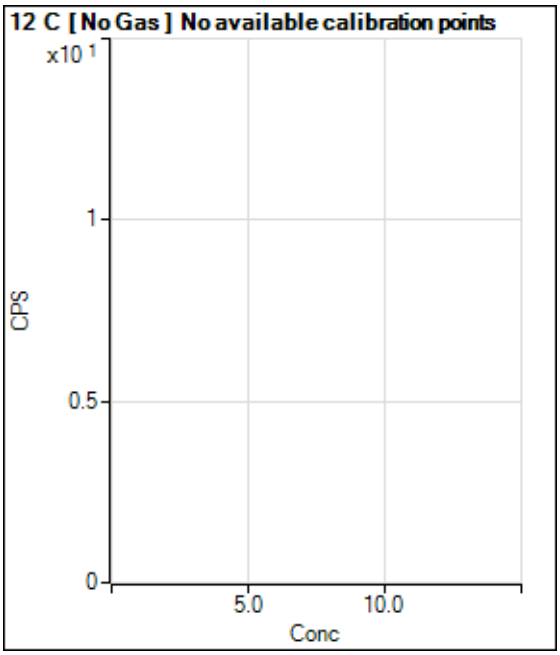
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	361.63	0.0000	P	1.2
2	☐	1.000	1.074	6278.90	0.0008	P	1.1
3	☐	50.000	51.377	280845.21	0.0379	P	2.5
4	☐	125.000	125.718	687140.12	0.0927	P	2.1
5	☐	250.000	253.365	1368162.02	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

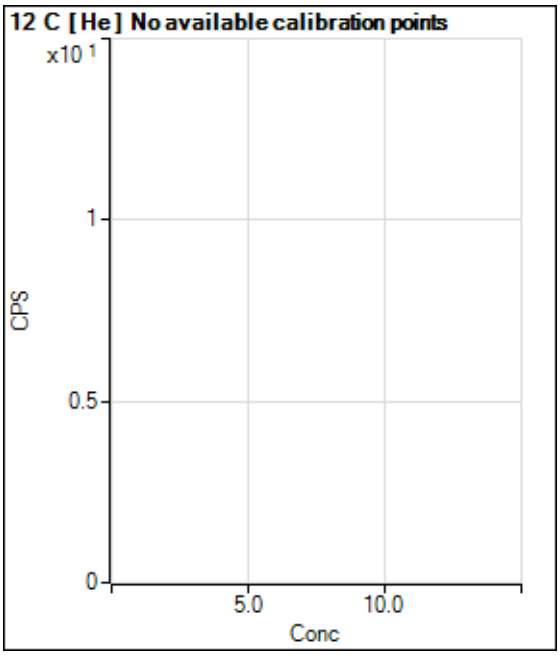
y = 7.3661E-004 * x + 4.8717E-005
R = 1.0000
DL = 0.00238
BEC = 0.06614

Weight: <None>
Min Conc: 0

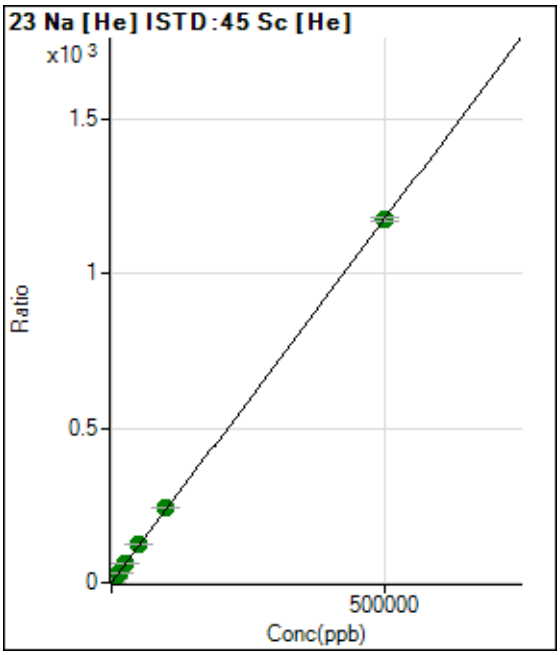


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3360557.45		A	1.2
2	☐			3369094.92		A	0.1
3	☐			3438303.32		A	0.4
4	☐			3592506.75		A	0.6
5	☐			3714614.04		A	1.3
6	☐			3972299.70		A	1.7
7	☐			4509665.94		A	3.1
8	☐			4069612.27		A	2.3

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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	☐			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

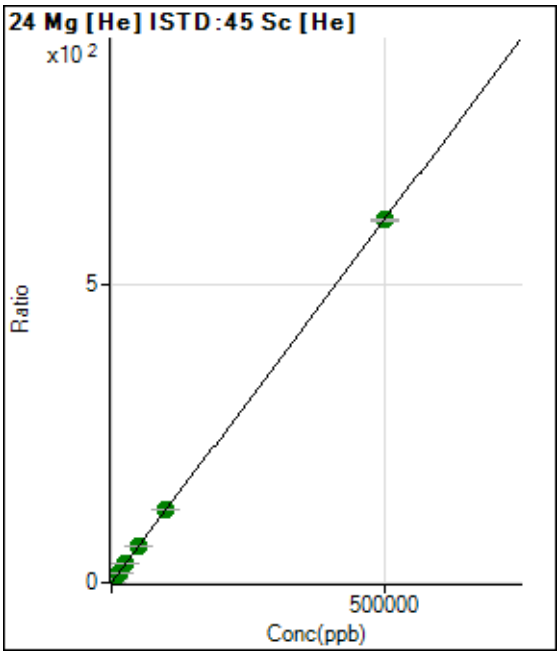


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56834.43	0.3075	P	1.5
2	☐	500.000	541.926	296212.48	1.5827	P	0.9
3	☐	5000.000	5395.509	2384490.40	13.0036	A	1.7
4	☐	12500.000	13008.194	5714264.08	30.9169	A	0.1
5	☐	25000.000	26266.120	11455199.41	62.1139	A	2.8
6	☐	50000.000	52959.770	22737010.22	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

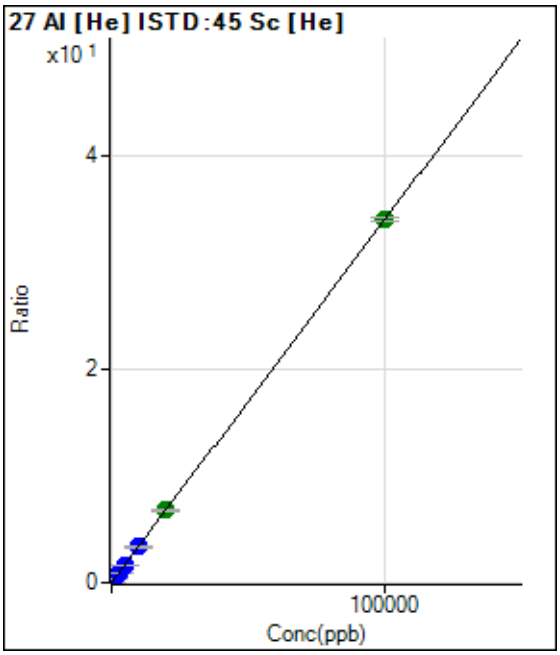
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4133.96	0.0224	P	4.3
2	☐	500.000	535.768	126672.02	0.6768	P	0.5
3	☐	5000.000	5346.022	1201561.62	6.5525	A	1.4
4	☐	12500.000	12958.730	2929735.09	15.8514	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

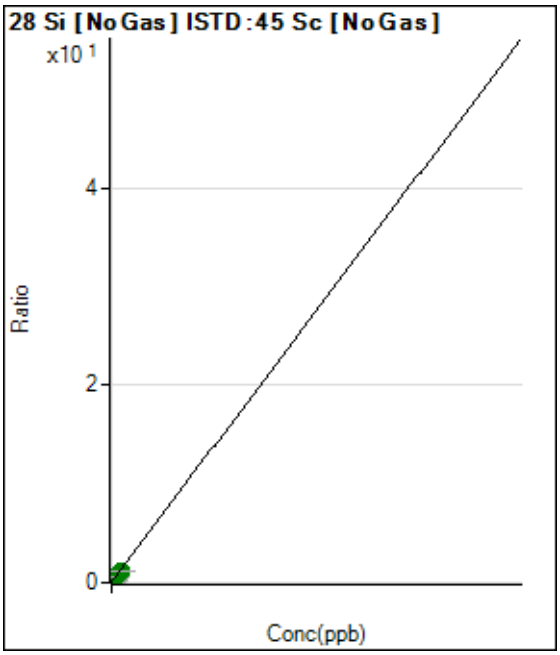


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0006	P	11.1
2	☐	20.000	18.890	1317.85	0.0070	P	4.6
3	☐	1000.000	1002.990	62685.38	0.3418	P	0.2
4	☐	2500.000	2460.172	154800.30	0.8376	P	0.8
5	☐	5000.000	4942.658	310252.35	1.6821	P	2.1
6	☐	10000.000	9829.508	608743.34	3.3446	P	0.5
7	☐	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

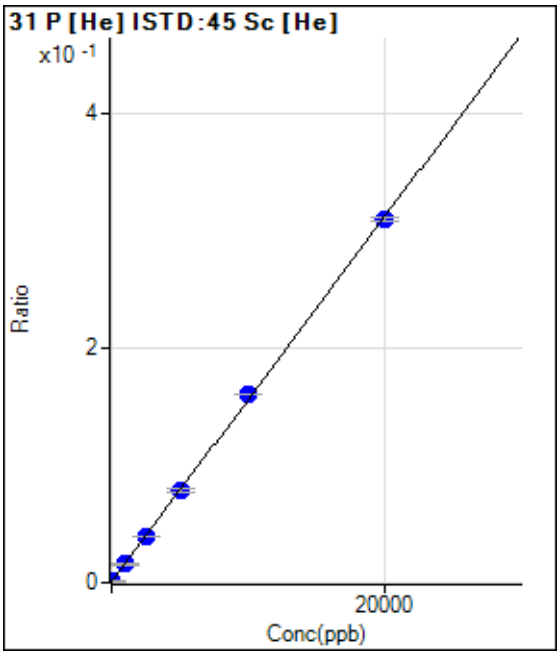
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513265.19	0.0490	P	0.6
2	☐	10.000	6.376	590083.28	0.0567	P	0.4
3	☐	50.000	51.081	1168455.04	0.1105	A	0.8
4	☐	125.000	128.798	2134505.19	0.2041	A	1.2
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

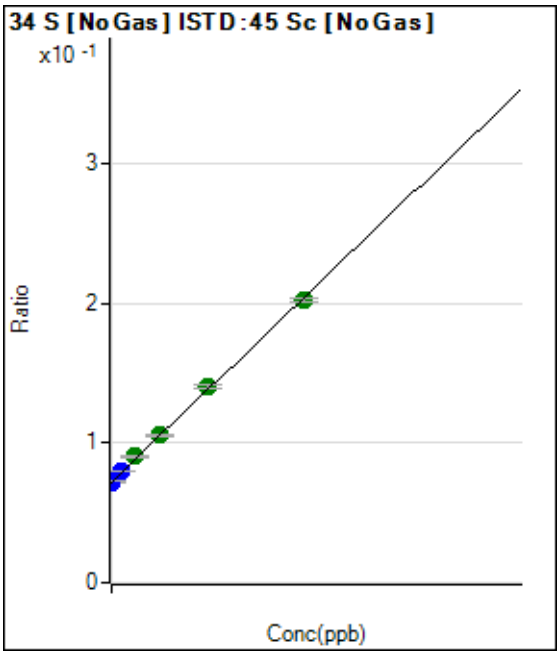


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.458	86.67	0.0005	P	16.3
2	☐	0.000	11.458	154.45	0.0008	P	18.3
3	☐	1000.000	982.833	2924.77	0.0160	P	5.7
4	☐	2500.000	2513.659	7354.15	0.0398	P	0.4
5	☐	5000.000	4977.904	14412.81	0.0782	P	3.8
6	☐	10000.000	10324.689	29379.74	0.1614	P	0.3
7	☐	20000.000	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

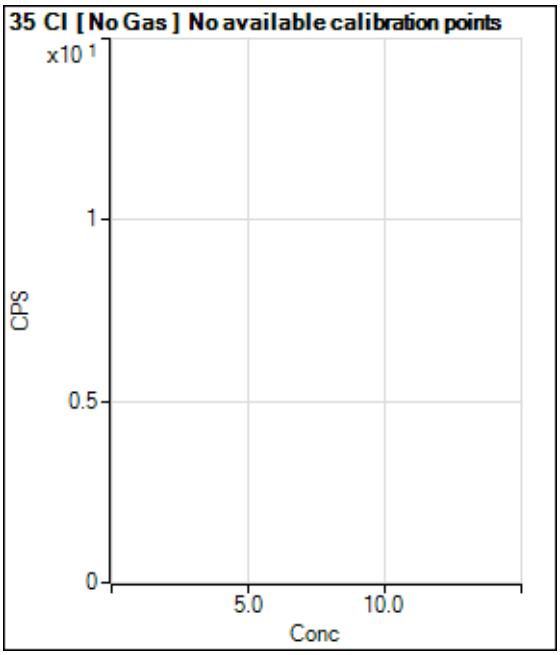
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-122.073	746544.49	0.0713	P	0.2
2	☐	0.000	122.073	758825.73	0.0729	P	0.2
3	☐	1000.000	1186.137	844998.56	0.0799	P	0.6
4	☐	2500.000	2786.306	946100.82	0.0905	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

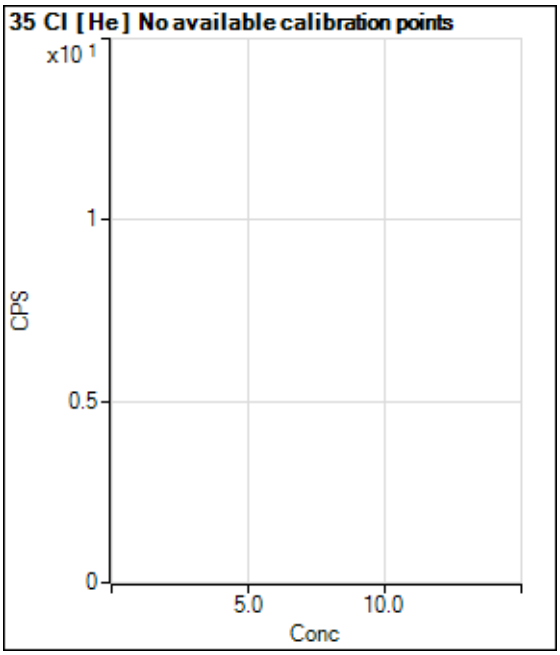
y = 6.5727E-006 * x + 0.0721
R = 0.9997
DL = 52.29
BEC = 1.098E+04

Weight: <None>
Min Conc: 0

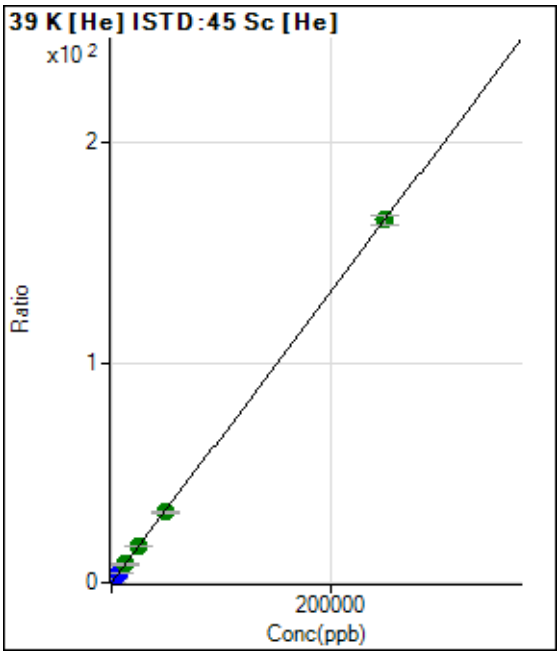


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			127507.58		P	0.4
2	☐			127300.34		P	1.0
3	☐			126941.70		P	0.1
4	☐			128789.58		P	0.7
5	☐			132751.66		P	1.2
6	☐			143977.44		P	1.3
7	☐			165127.62		P	1.8
8	☐			125792.96		P	1.6

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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

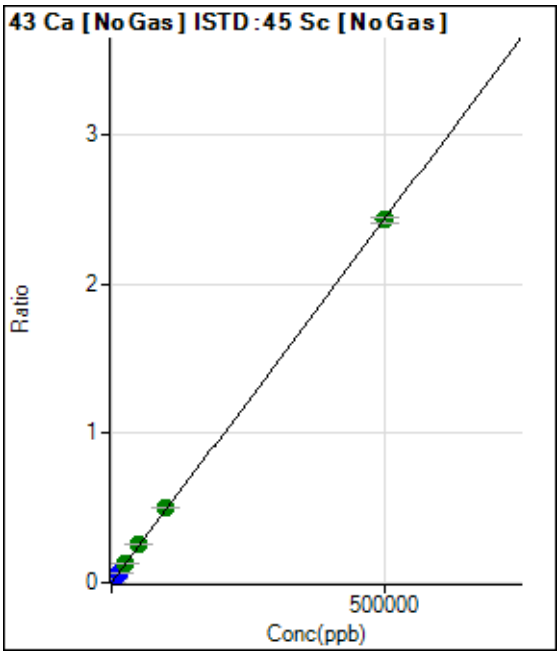


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9404.26	0.0509	P	2.0
2	☐	500.000	511.948	72701.71	0.3885	P	0.9
3	☐	2500.000	2515.987	313557.84	1.7099	P	0.8
4	☐	6250.000	6130.526	756536.93	4.0933	P	0.6
5	☐	12500.000	12535.253	1533826.82	8.3166	A	2.5
6	☐	25000.000	25173.078	3030279.68	16.6499	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

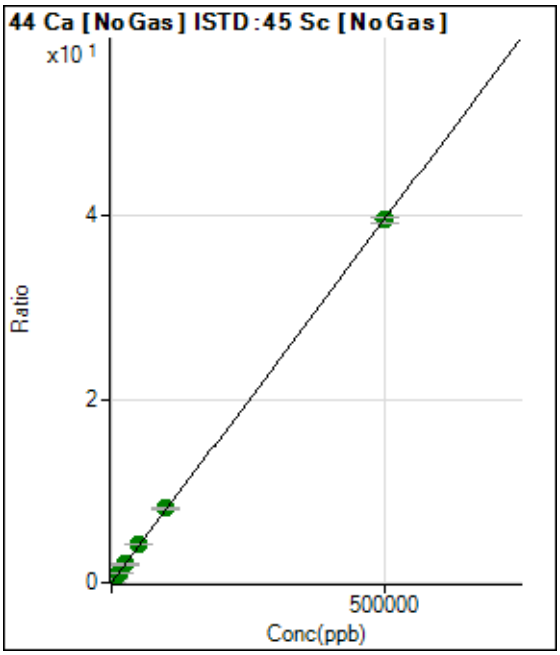
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	418.90	0.0000	P	8.2
2	☐	500.000	557.274	28606.29	0.0027	P	1.0
3	☐	5000.000	5237.620	269627.71	0.0255	P	1.6
4	☐	12500.000	12948.521	658945.87	0.0630	P	1.0
5	☐	25000.000	25865.046	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

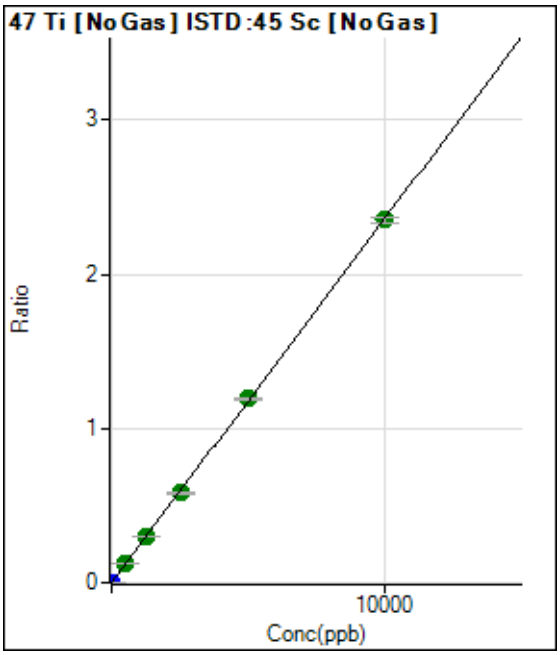


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29255.37	0.0028	P	1.1
2	☐	500.000	550.279	482897.91	0.0464	P	0.9
3	☐	5000.000	5237.700	4418528.03	0.4180	A	1.7
4	☐	12500.000	12884.254	10712373.38	1.0243	A	0.1
5	☐	25000.000	25348.293	21091365.24	2.0124	A	2.7
6	☐	50000.000	52048.012	42391909.09	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

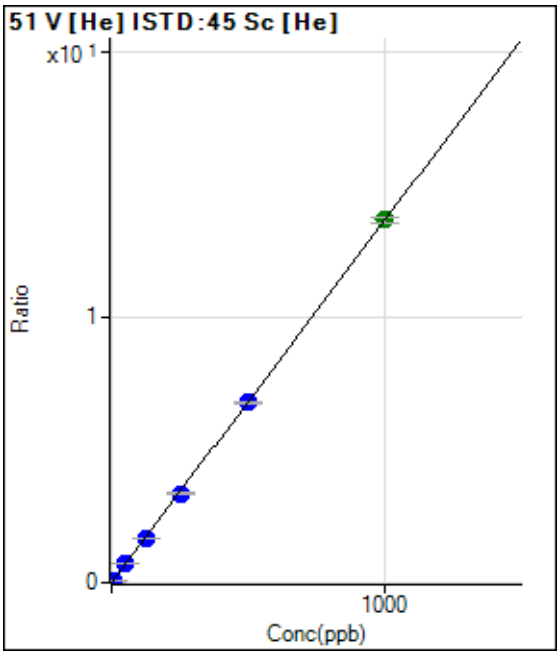
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	640.08	0.0001	P	15.8
2	☐	5.000	5.289	13608.75	0.0013	P	0.9
3	☐	500.000	512.437	1277689.90	0.1209	A	1.8
4	☐	1250.000	1266.661	3124153.88	0.2987	A	0.9
5	☐	2500.000	2461.336	6083835.88	0.5804	A	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

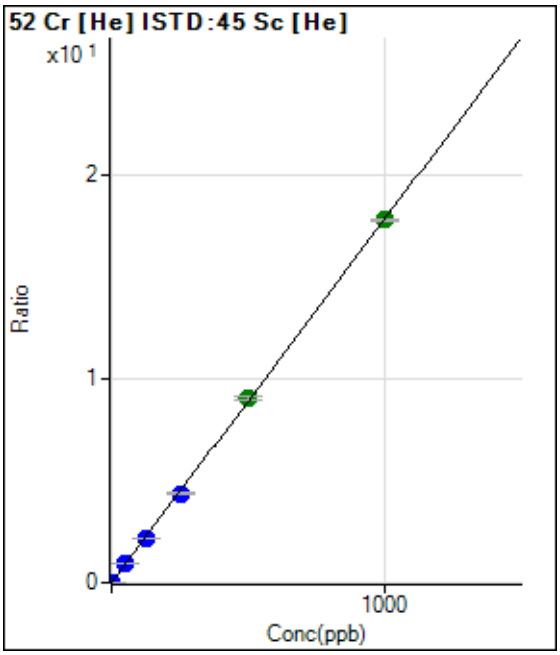


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.55	0.0001	P	45.5
2	☐	5.000	5.287	13518.69	0.0722	P	1.4
3	☐	50.000	50.766	127068.63	0.6929	P	0.7
4	☐	125.000	124.016	312836.60	1.6926	P	0.2
5	☐	250.000	246.737	621038.67	3.3674	P	2.7
6	☐	500.000	497.839	1236563.13	6.7943	P	1.2
7	☐	1000.000	1001.980	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

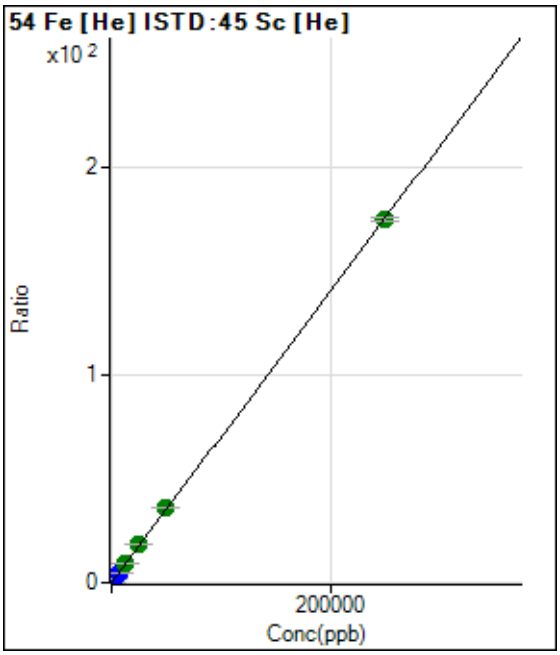
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	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

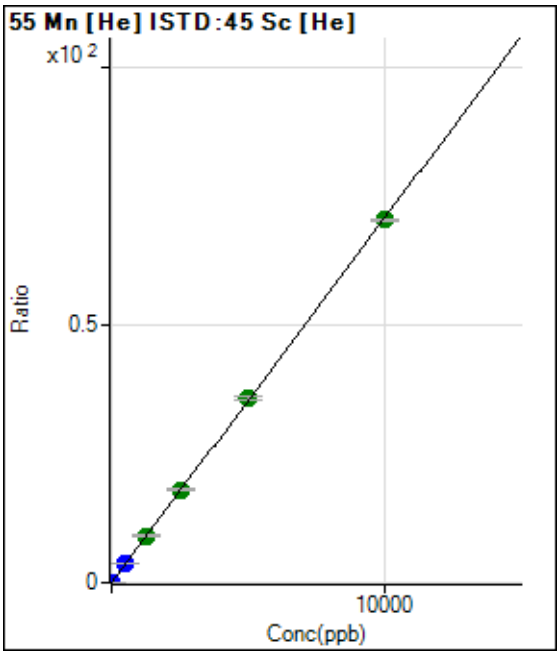


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	363.34	0.0020	P	15.0
2	☐	50.000	56.743	7796.63	0.0417	P	1.1
3	☐	2500.000	2696.478	346196.43	1.8879	P	0.6
4	☐	6250.000	6564.854	848945.15	4.5934	P	1.1
5	☐	12500.000	13288.875	1714697.87	9.2961	A	1.8
6	☐	25000.000	26612.619	3387818.60	18.6147	A	1.5
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

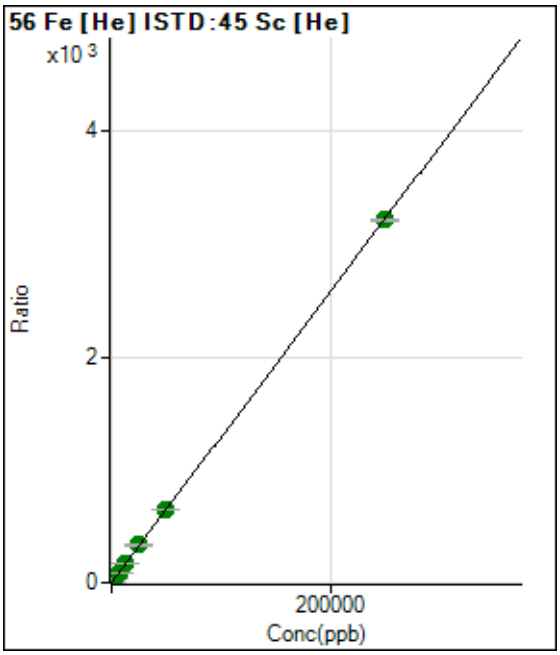
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0009	P	13.9
2	☐	1.000	1.039	1540.10	0.0082	P	3.3
3	☐	500.000	514.385	666753.06	3.6359	P	0.4
4	☐	1250.000	1288.953	1683574.99	9.1096	A	1.8
5	☐	2500.000	2554.575	3330009.78	18.0535	A	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

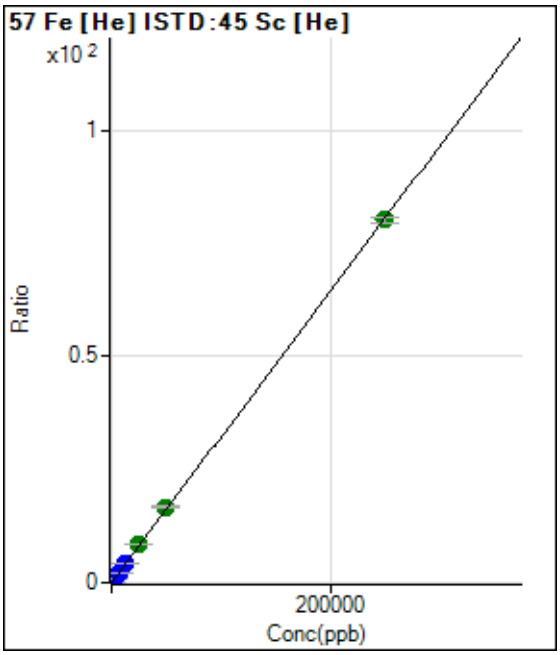


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5986.86	0.0324	P	1.5
2	☐	50.000	55.418	139578.56	0.7458	P	0.7
3	☐	2500.000	2687.743	6350587.89	34.6310	A	0.8
4	☐	6250.000	6542.381	15571277.27	84.2508	A	0.8
5	☐	12500.000	12986.197	30836203.98	167.2004	A	2.6
6	☐	25000.000	25941.773	60784408.54	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

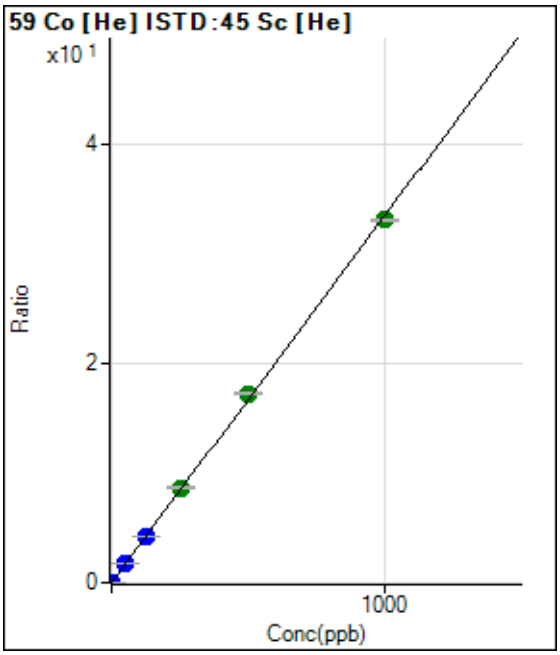
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	137.78	0.0007	P	10.4
2	☐	50.000	54.915	3446.01	0.0184	P	2.5
3	☐	2500.000	2653.277	156656.71	0.8543	P	0.5
4	☐	6250.000	6481.522	385499.25	2.0858	P	0.7
5	☐	12500.000	12791.724	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

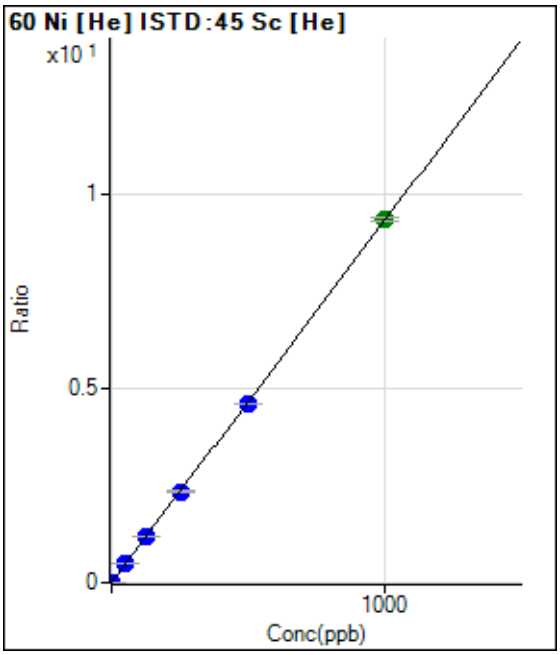


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0009	P	11.1
2	☐	1.000	1.137	7277.47	0.0389	P	2.1
3	☐	50.000	52.741	322956.36	1.7612	P	0.8
4	☐	125.000	127.362	785770.42	4.2516	P	1.0
5	☐	250.000	257.217	1583511.76	8.5854	A	2.1
6	☐	500.000	515.545	3131815.65	17.2069	A	0.6
7	☐	1000.000	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

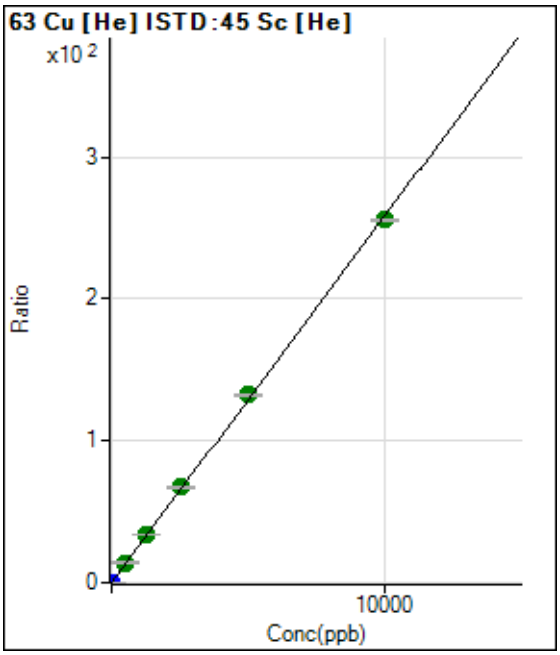
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	911.15	0.0049	P	3.1
2	☐	1.000	1.088	2815.86	0.0150	P	1.5
3	☐	50.000	52.412	90244.72	0.4921	P	0.8
4	☐	125.000	127.271	219562.39	1.1880	P	0.9
5	☐	250.000	250.554	430456.00	2.3340	P	2.4
6	☐	500.000	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

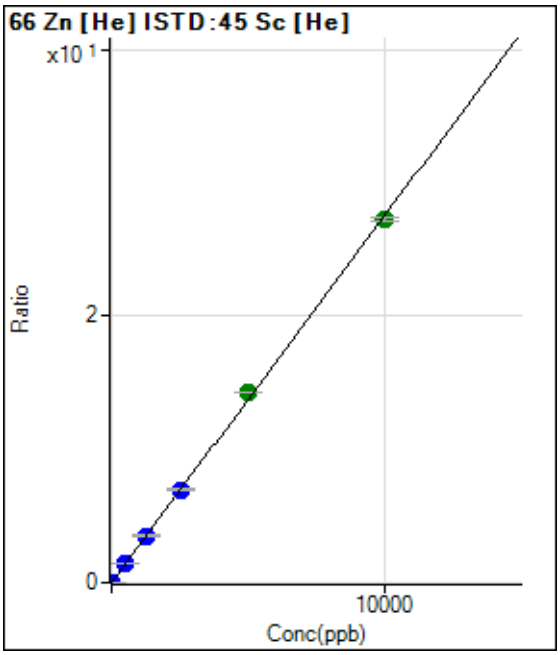


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3408.22	0.0184	P	4.3
2	☐	2.000	2.254	14341.79	0.0766	P	1.1
3	☐	500.000	549.997	2607152.39	14.2175	A	1.0
4	☐	1250.000	1309.061	6249460.25	33.8139	A	1.1
5	☐	2500.000	2606.155	12411753.15	67.3005	A	2.8
6	☐	5000.000	5119.625	24058980.75	132.1897	A	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

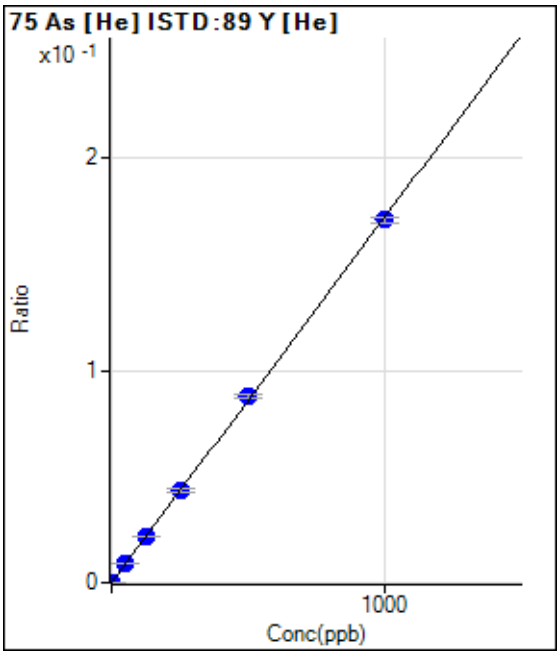
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0011	P	19.7
2	☐	2.000	5.719	3142.60	0.0168	P	3.5
3	☐	500.000	529.429	267299.64	1.4576	P	0.9
4	☐	1250.000	1280.881	651513.04	3.5251	P	0.8
5	☐	2500.000	2534.639	1286339.64	6.9745	P	2.2
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

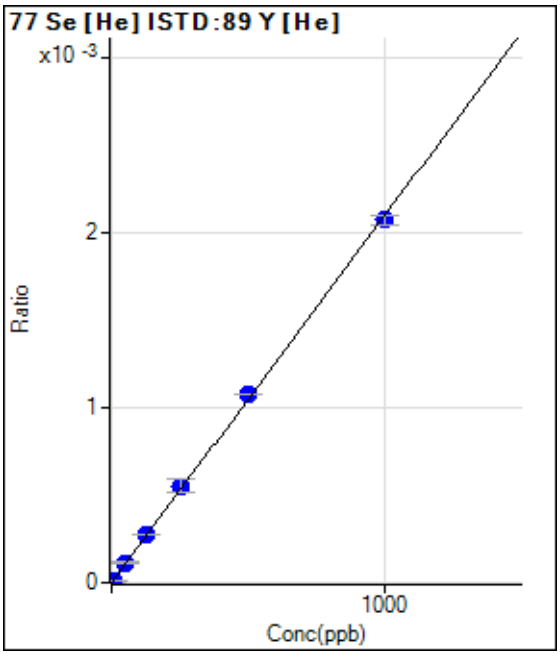


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	1.035	321.12	0.0002	P	6.4
3	☐	50.000	51.271	15063.70	0.0088	P	1.3
4	☐	125.000	125.336	36952.74	0.0215	P	0.1
5	☐	250.000	254.368	74181.62	0.0437	P	4.4
6	☐	500.000	510.113	146407.79	0.0877	P	1.7
7	☐	1000.000	993.746	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

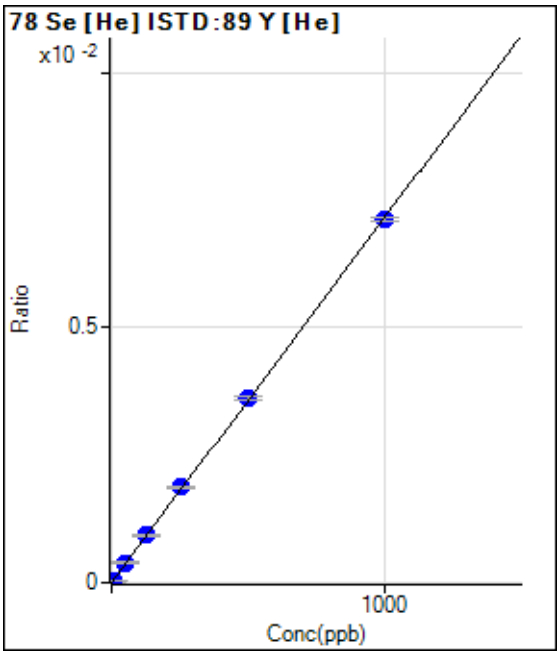
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.860	18.89	0.0000	P	26.6
3	☐	50.000	53.081	191.11	0.0001	P	8.7
4	☐	125.000	130.536	470.01	0.0003	P	2.6
5	☐	250.000	264.367	938.93	0.0006	P	12.2
6	☐	500.000	513.088	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

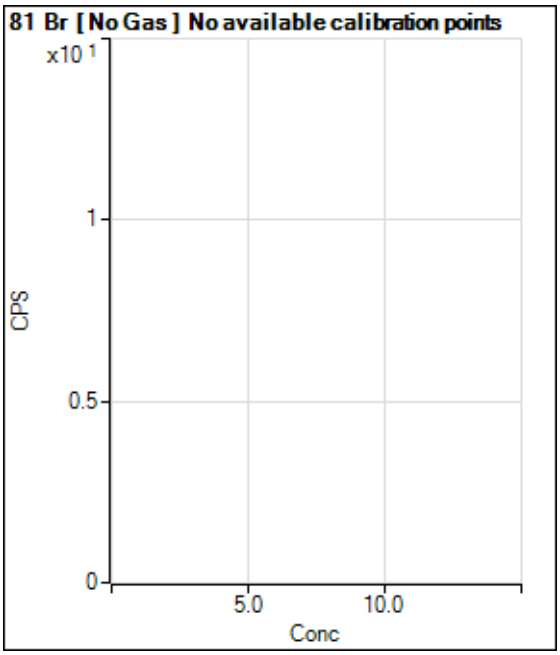


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.6
2	☐	5.000	5.251	68.89	0.0000	P	19.6
3	☐	50.000	53.807	661.13	0.0004	P	6.4
4	☐	125.000	130.981	1610.11	0.0009	P	3.7
5	☐	250.000	261.912	3183.72	0.0019	P	1.4
6	☐	500.000	503.494	6016.91	0.0036	P	2.2
7	☐	1000.000	994.336	12056.36	0.0071	P	1.1
8	☐			15.56	0.0000	P	52.3

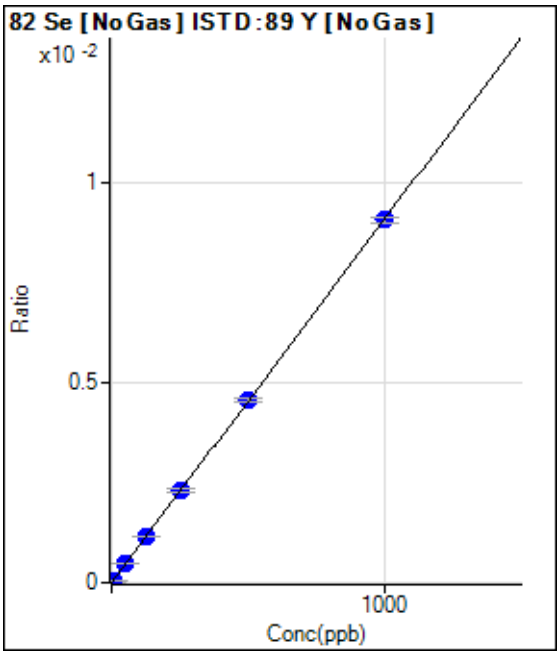
y = 7.1519E-006 * x + 1.9431E-006
R = 0.9999
DL = 0.8116
BEC = 0.2717

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

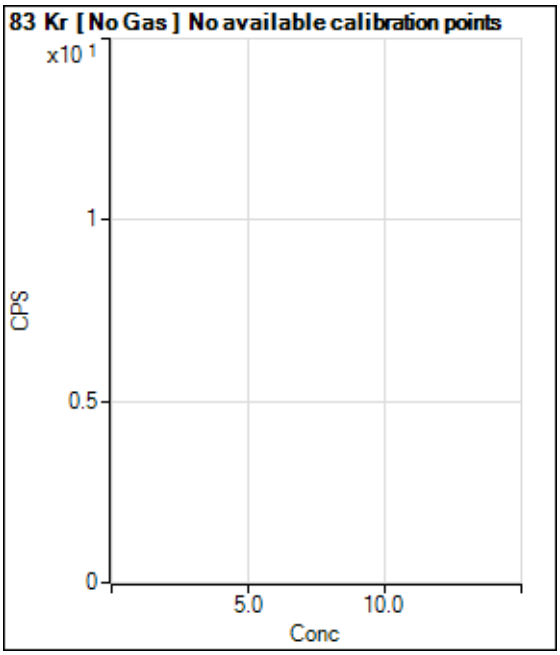


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-35.56	0.0000	P	-108.
2	☐	5.000	5.690	1360.11	0.0001	P	6.7
3	☐	50.000	51.353	12673.84	0.0005	P	3.7
4	☐	125.000	125.574	30977.02	0.0011	P	0.3
5	☐	250.000	255.037	62439.44	0.0023	P	3.5
6	☐	500.000	500.836	122328.15	0.0046	P	1.9
7	☐	1000.000	998.180	240507.81	0.0091	P	1.5
8	☐			-31.12	0.0000	P	-86.4

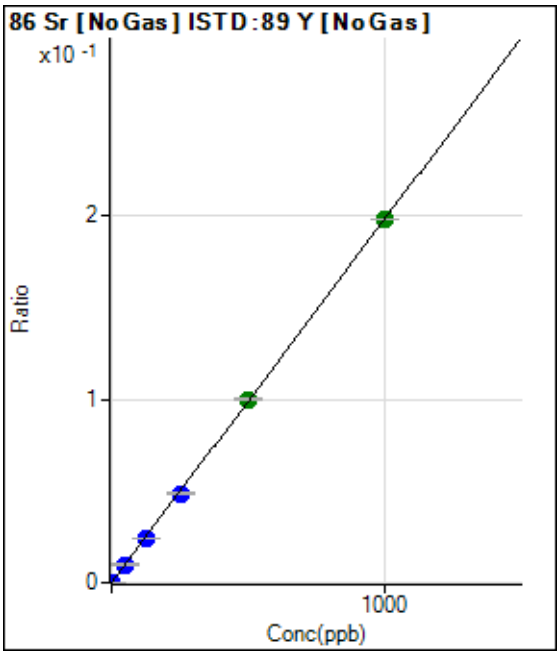
y = 9.1072E-006 * x - 1.3157E-006
R = 1.0000
DL = 0.4707
BEC = -0.1445

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

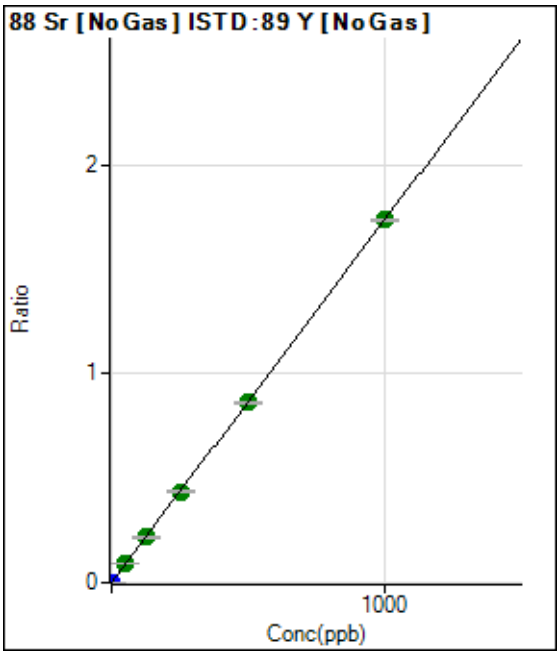


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	781.14	0.0000	P	6.5
2	☐	1.000	1.039	6325.94	0.0002	P	2.4
3	☐	50.000	50.116	270837.62	0.0100	P	1.2
4	☐	125.000	123.384	664050.36	0.0245	P	1.2
5	☐	250.000	245.451	1309660.60	0.0487	P	2.7
6	☐	500.000	504.909	2685975.69	0.1001	A	1.5
7	☐	1000.000	998.879	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

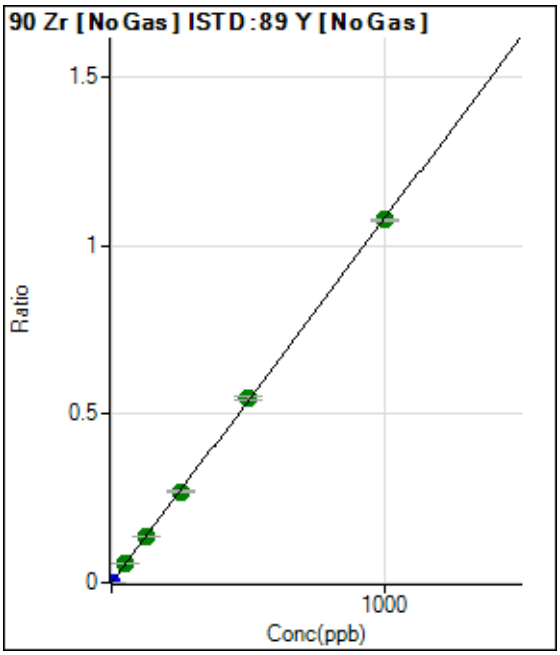
Reviewed By:Mohan
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Inst Id :P8



	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

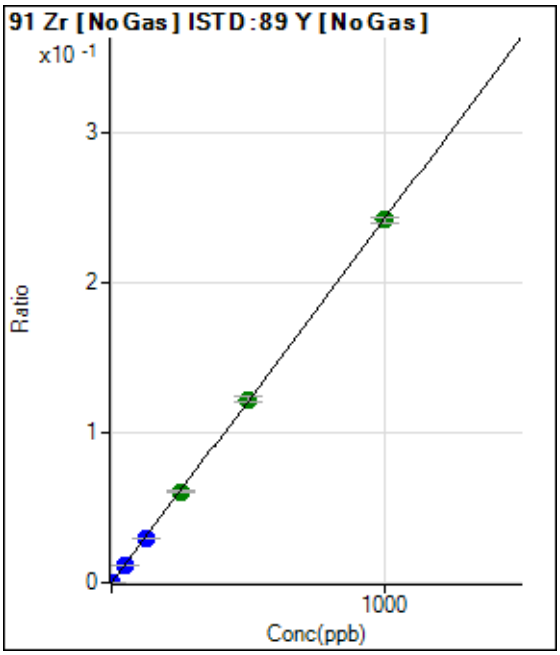


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	913.37	0.0000	P	0.9
2	☐	1.000	1.028	30819.64	0.0011	P	0.7
3	☐	50.000	51.000	1497319.02	0.0551	A	2.0
4	☐	125.000	125.544	3675817.06	0.1356	A	1.3
5	☐	250.000	250.667	7280292.88	0.2706	A	2.2
6	☐	500.000	506.355	14665439.92	0.5466	A	1.7
7	☐	1000.000	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

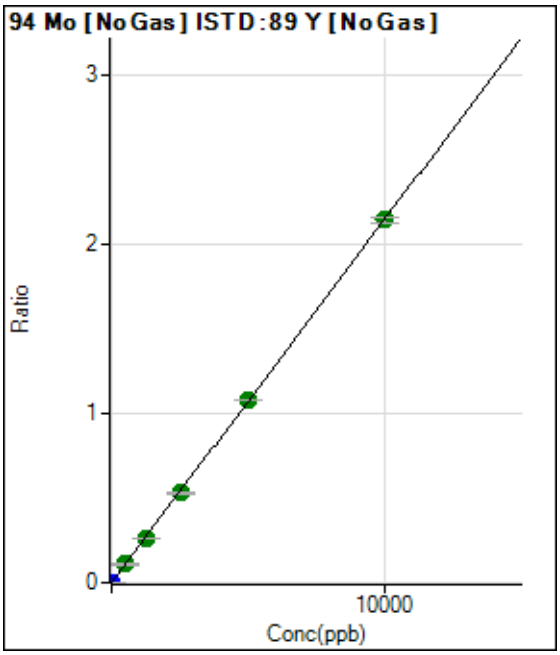
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0000	P	10.5
2	☐	1.000	1.011	6780.59	0.0003	P	2.2
3	☐	50.000	49.304	325406.46	0.0120	P	2.6
4	☐	125.000	121.120	797307.97	0.0294	P	1.0
5	☐	250.000	250.640	1636637.43	0.0608	A	2.2
6	☐	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

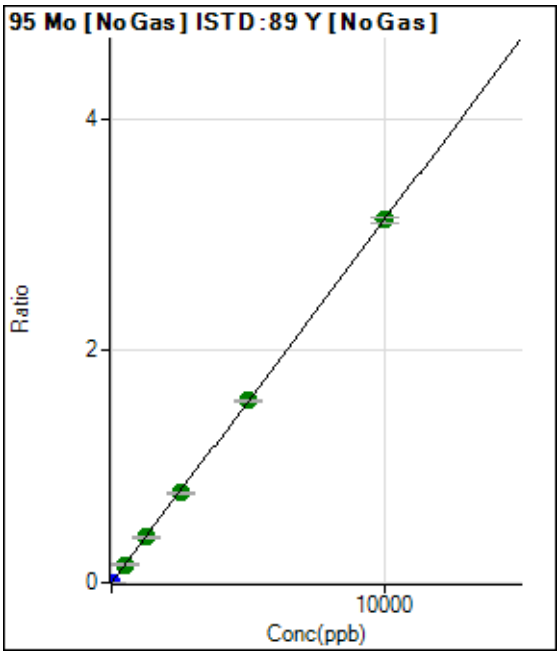


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	391.12	0.0000	P	11.5
2	☐	5.000	6.230	36412.05	0.0014	P	1.0
3	☐	500.000	504.362	2942752.00	0.1083	A	2.7
4	☐	1250.000	1234.020	7183080.38	0.2649	A	0.1
5	☐	2500.000	2481.328	14327663.40	0.5326	A	2.3
6	☐	5000.000	5027.630	28951671.24	1.0791	A	0.8
7	☐	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

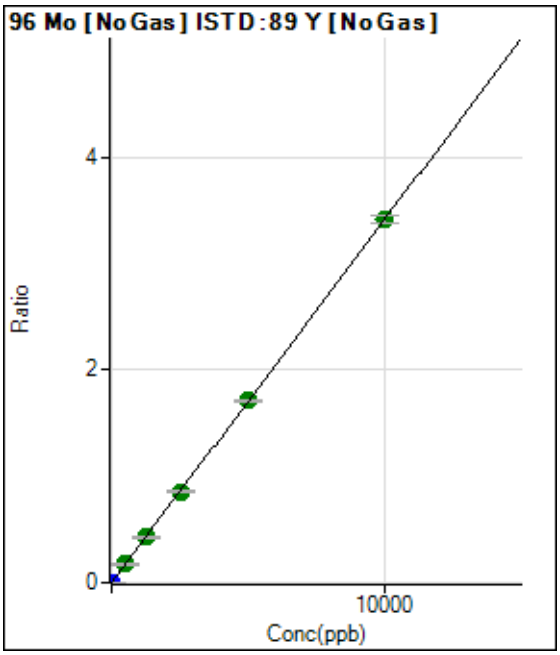
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.23	0.0000	P	12.5
2	☐	5.000	5.167	43726.33	0.0016	P	0.6
3	☐	500.000	502.824	4278614.90	0.1574	A	1.4
4	☐	1250.000	1248.540	10597854.98	0.3908	A	1.0
5	☐	2500.000	2487.536	20947410.10	0.7786	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

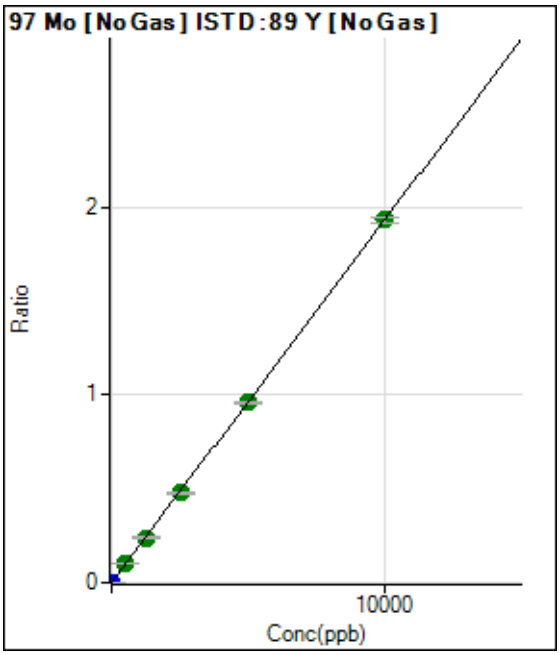


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0000	P	6.5
2	☐	5.000	5.321	49197.85	0.0018	P	1.4
3	☐	500.000	506.172	4699074.41	0.1729	A	1.3
4	☐	1250.000	1246.948	11548227.88	0.4259	A	0.6
5	☐	2500.000	2496.006	22931215.21	0.8524	A	2.5
6	☐	5000.000	5008.971	45893952.65	1.7106	A	1.3
7	☐	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

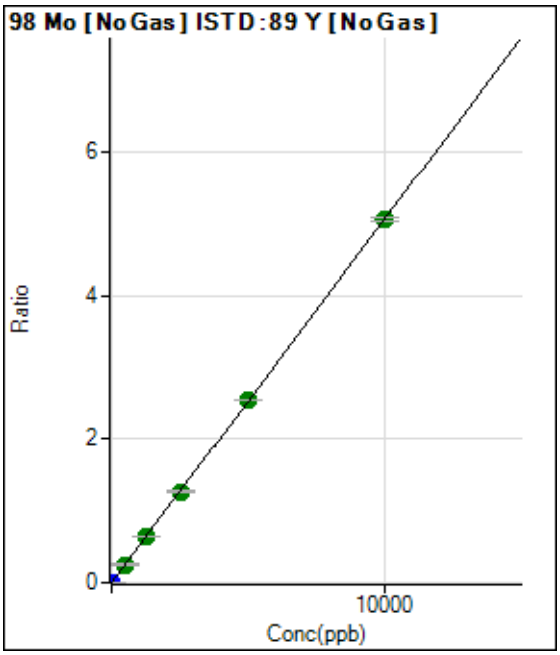
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.22	0.0000	P	11.2
2	☐	5.000	5.281	27557.40	0.0010	P	0.6
3	☐	500.000	510.788	2677493.29	0.0985	A	1.7
4	☐	1250.000	1246.636	6519029.76	0.2404	A	1.1
5	☐	2500.000	2490.455	12919576.75	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

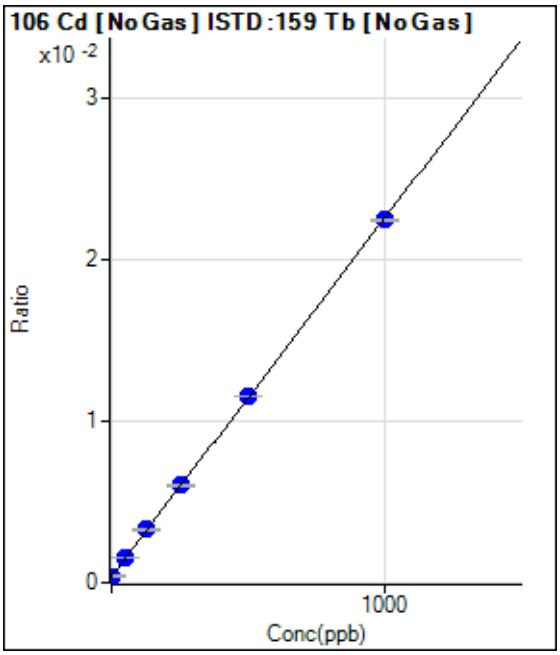


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	196.67	0.0000	P	9.6
2	☐	5.000	5.179	70761.38	0.0026	P	0.6
3	☐	500.000	502.440	6906871.50	0.2541	A	2.0
4	☐	1250.000	1247.750	17112852.80	0.6310	A	0.6
5	☐	2500.000	2500.990	34024028.66	1.2649	A	2.8
6	☐	5000.000	5027.166	68212822.32	2.5425	A	0.8
7	☐	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

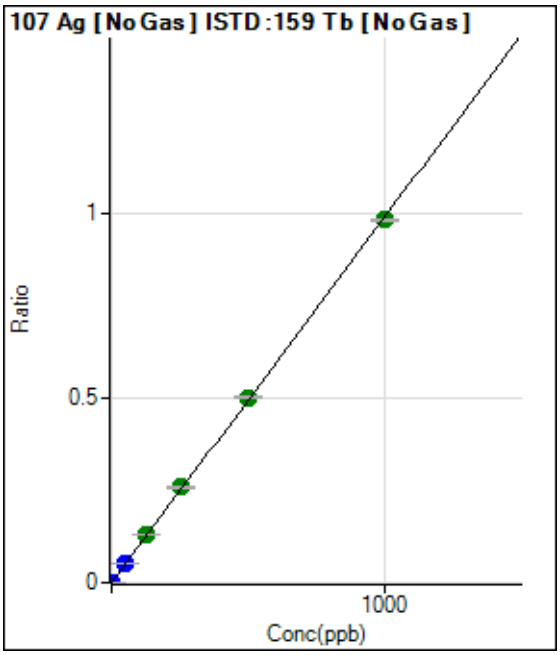
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8269.21	0.0004	P	0.7
2	☐	1.000	0.475	8583.87	0.0004	P	4.0
3	☐	50.000	53.290	33574.09	0.0016	P	1.4
4	☐	125.000	130.198	69305.01	0.0033	P	1.1
5	☐	250.000	255.105	127219.42	0.0061	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

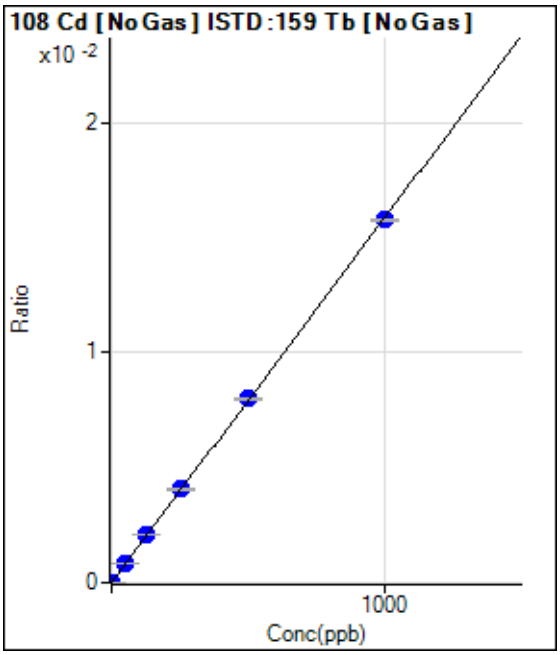


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0000	P	7.7
2	☐	1.000	1.052	21977.59	0.0011	P	1.9
3	☐	50.000	52.011	1091906.39	0.0514	P	1.4
4	☐	125.000	132.119	2755006.56	0.1306	A	0.4
5	☐	250.000	260.734	5416344.64	0.2578	A	2.1
6	☐	500.000	506.633	10598469.63	0.5009	A	1.0
7	☐	1000.000	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

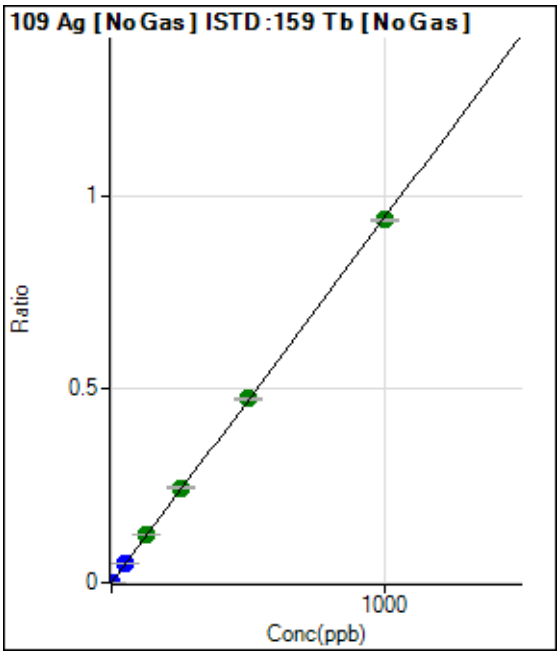
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	43.1
2	☐	1.000	1.069	374.45	0.0000	P	5.8
3	☐	50.000	52.508	17692.57	0.0008	P	2.3
4	☐	125.000	131.307	43924.10	0.0021	P	0.7
5	☐	250.000	257.135	85667.25	0.0041	P	2.9
6	☐	500.000	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

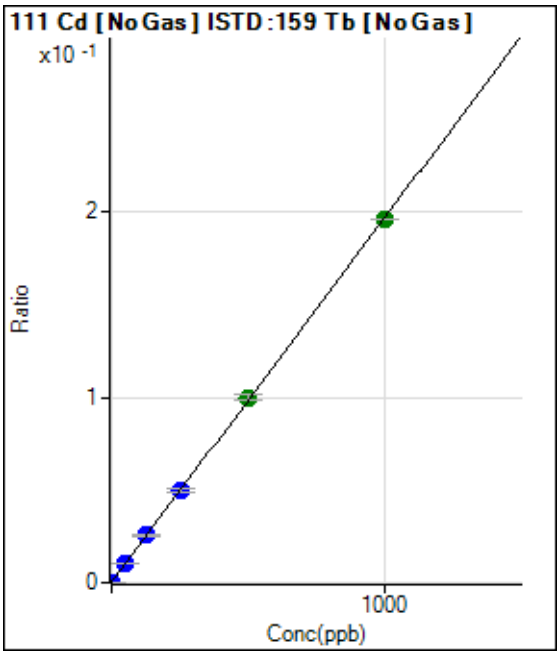


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0000	P	17.9
2	☐	1.000	1.067	21104.05	0.0010	P	1.9
3	☐	50.000	52.147	1043710.47	0.0492	P	1.8
4	☐	125.000	132.450	2633330.61	0.1249	A	1.1
5	☐	250.000	258.777	5125797.43	0.2440	A	2.1
6	☐	500.000	505.377	10080838.12	0.4765	A	1.2
7	☐	1000.000	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

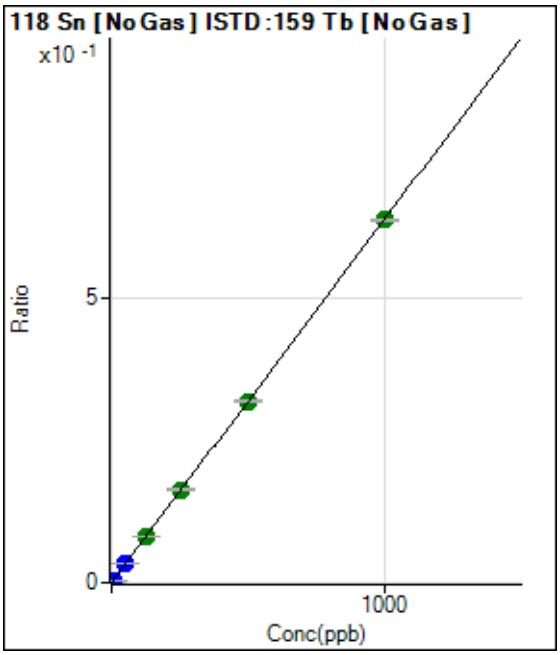
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5794.45	0.0003	P	0.8
2	☐	1.000	1.092	10342.96	0.0005	P	2.3
3	☐	50.000	52.063	222924.08	0.0105	P	1.6
4	☐	125.000	128.359	537297.32	0.0255	P	1.7
5	☐	250.000	252.065	1045505.93	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

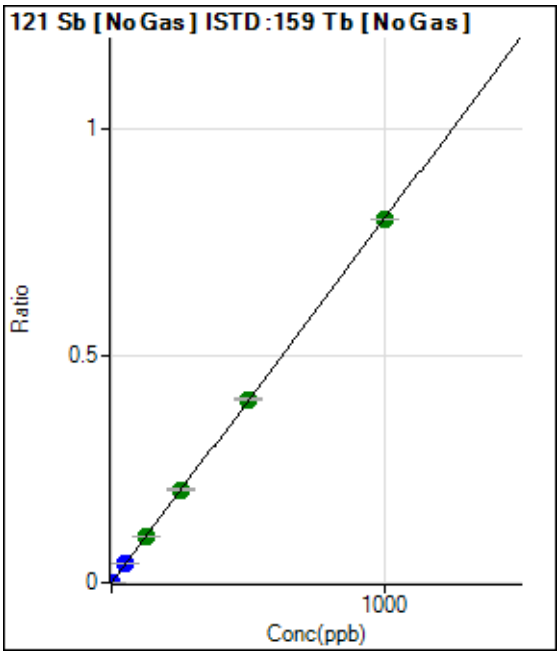


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3199.33	0.0002	P	1.4
2	☐	5.000	5.406	75531.26	0.0036	P	1.0
3	☐	50.000	51.155	697930.70	0.0329	P	1.7
4	☐	125.000	128.995	1743462.38	0.0827	A	0.2
5	☐	250.000	255.483	3437226.72	0.1636	A	1.4
6	☐	500.000	499.030	6757281.01	0.3194	A	0.6
7	☐	1000.000	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

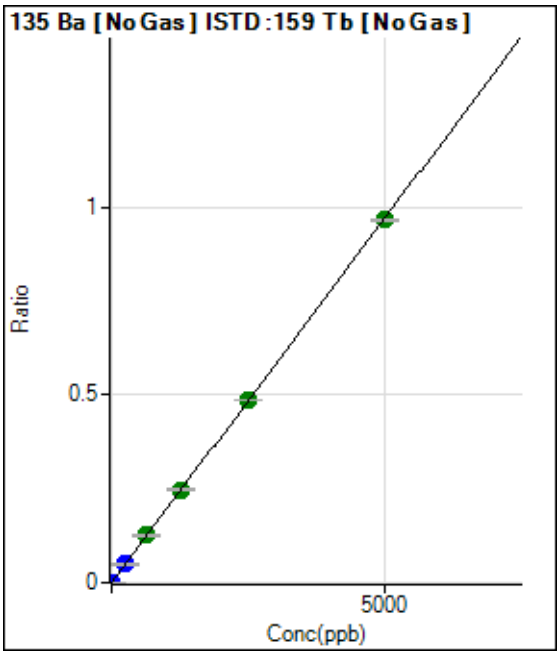
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.22	0.0000	P	20.8
2	☐	2.000	2.170	36398.34	0.0017	P	1.1
3	☐	50.000	50.695	862187.81	0.0406	P	1.5
4	☐	125.000	128.994	2179274.22	0.1033	A	0.3
5	☐	250.000	254.133	4277443.27	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

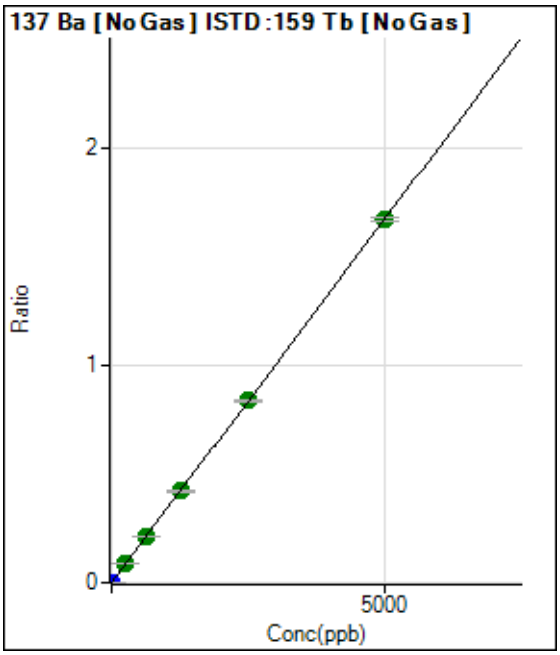


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.90	0.0000	P	3.4
2	☐	10.000	10.674	43544.16	0.0021	P	1.5
3	☐	250.000	252.123	1038393.20	0.0489	P	1.1
4	☐	625.000	650.192	2659638.67	0.1261	A	1.5
5	☐	1250.000	1270.549	5177905.86	0.2464	A	1.9
6	☐	2500.000	2516.167	10325885.82	0.4880	A	0.2
7	☐	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

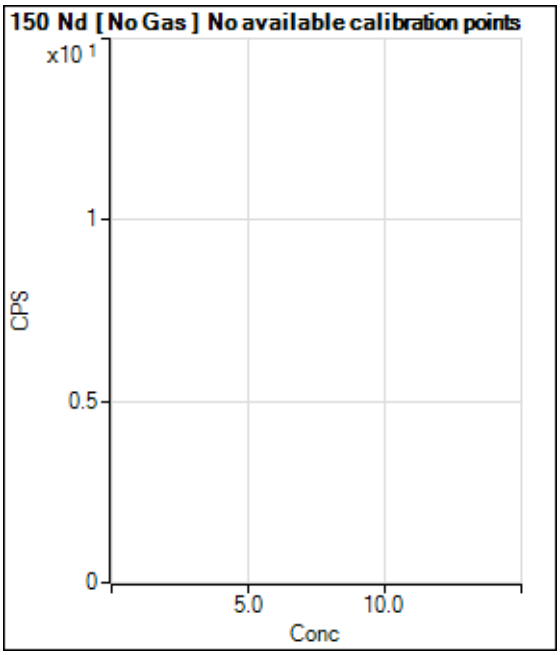
Reviewed By:Mohan
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	338.90	0.0000	P	6.9
2	☐	10.000	10.756	75685.51	0.0036	P	1.4
3	☐	250.000	257.171	1829544.00	0.0862	A	1.1
4	☐	625.000	640.558	4525920.42	0.2146	A	2.3
5	☐	1250.000	1263.268	8892373.48	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

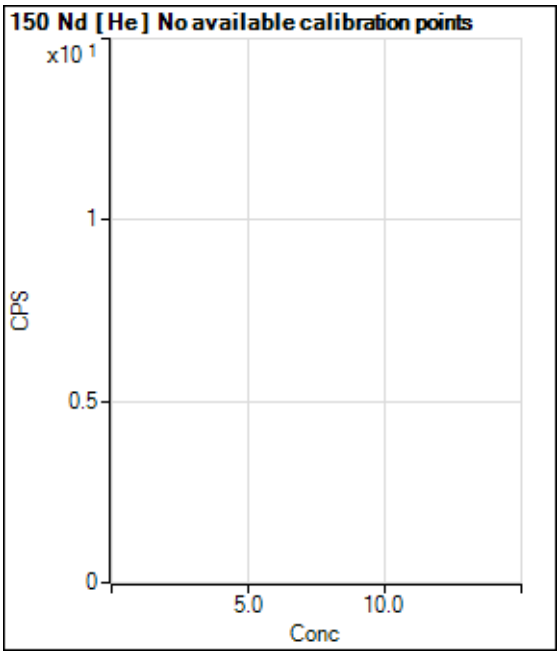
y = 3.3505E-004 * x + 1.6387E-005
R = 1.0000
DL = 0.01019
BEC = 0.04891

Weight: <None>
Min Conc: 0

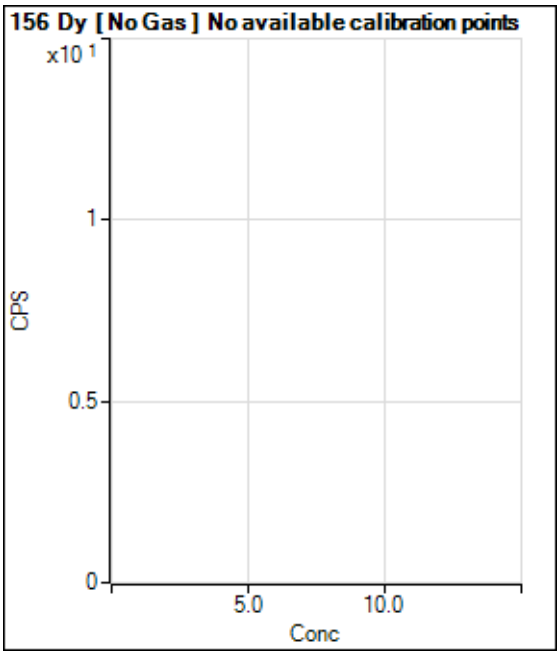


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			10.00		P	57.7
2	☐			13.33		P	50.0
3	☐			92.22		P	32.4
4	☐			184.45		P	25.6
5	☐			342.23		P	7.2
6	☐			650.02		P	7.2
7	☐			1277.85		P	6.8
8	☐			373.35		P	4.1

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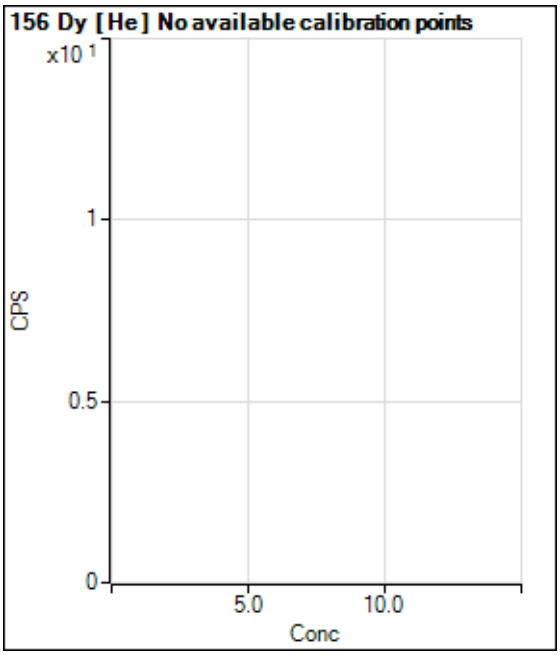


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	100.1
3	☐			3.33		P	100.1
4	☐			3.33		P	173.2
5	☐			12.22		P	56.8
6	☐			16.67		P	20.0
7	☐			41.11		P	32.8
8	☐			70.00		P	26.5

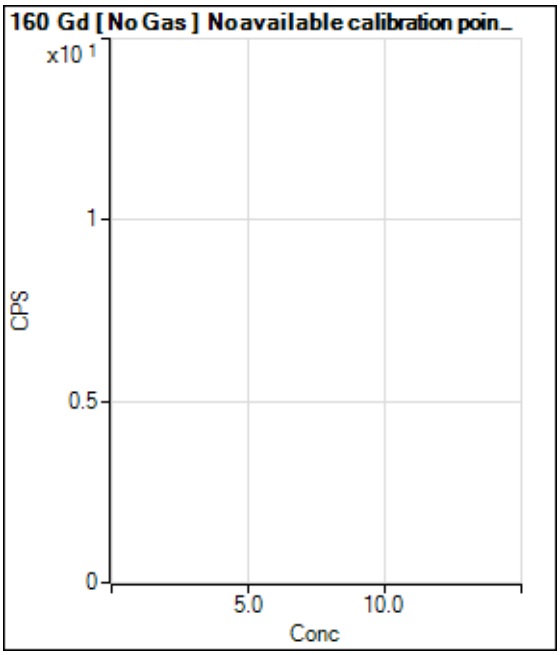


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			136.67		P	21.7
2	☐			150.00		P	9.7
3	☐			203.34		P	16.6
4	☐			267.78		P	12.0
5	☐			314.45		P	3.4
6	☐			354.45		P	6.1
7	☐			524.46		P	5.8
8	☐			696.69		P	7.8

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

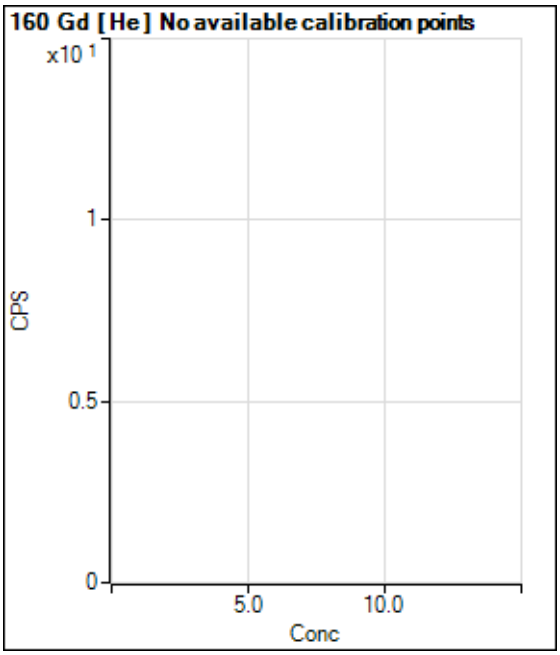


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3.33		P	100.1
2	☐			12.22		P	31.5
3	☐			11.11		P	96.4
4	☐			8.89		P	94.4
5	☐			23.33		P	49.5
6	☐			27.78		P	18.3
7	☐			44.44		P	18.9
8	☐			196.67		P	10.6

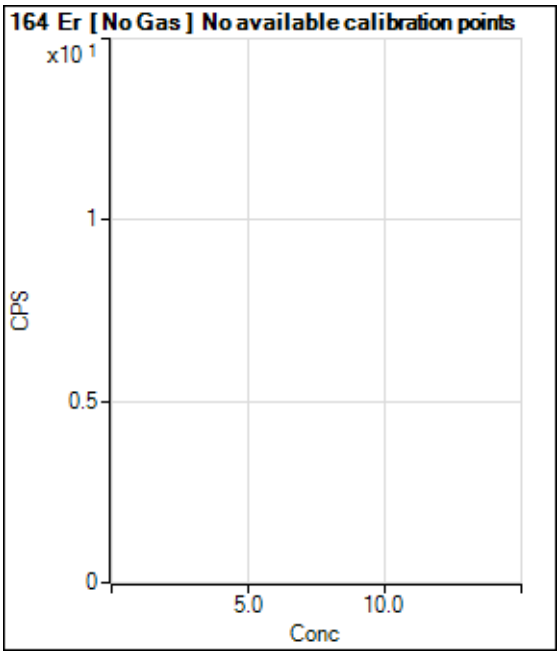


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1	☐			135.56		P	14.8
2	☐			131.12		P	8.2
3	☐			123.34		P	27.0
4	☐			145.56		P	16.6
5	☐			165.56		P	15.1
6	☐			203.34		P	12.8
7	☐			245.56		P	5.7
8	☐			626.69		P	4.5

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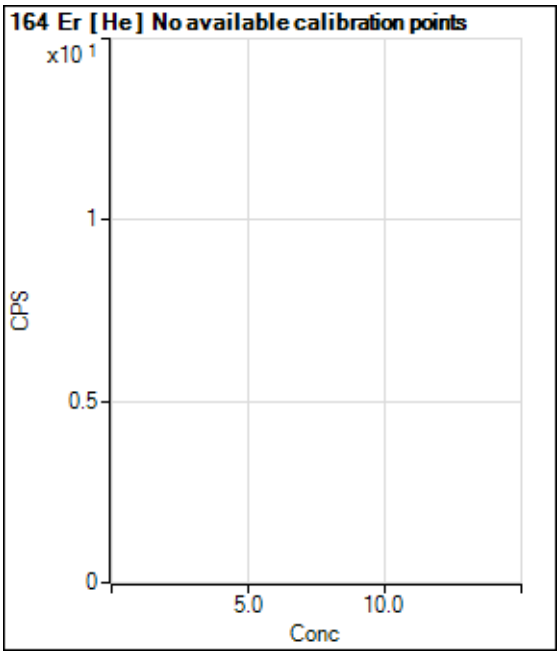


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.56		P	49.4
2	☐			18.89		P	27.0
3	☐			16.67		P	20.0
4	☐			28.89		P	37.1
5	☐			37.78		P	35.7
6	☐			54.44		P	9.4
7	☐			70.00		P	40.7
8	☐			233.34		P	8.0

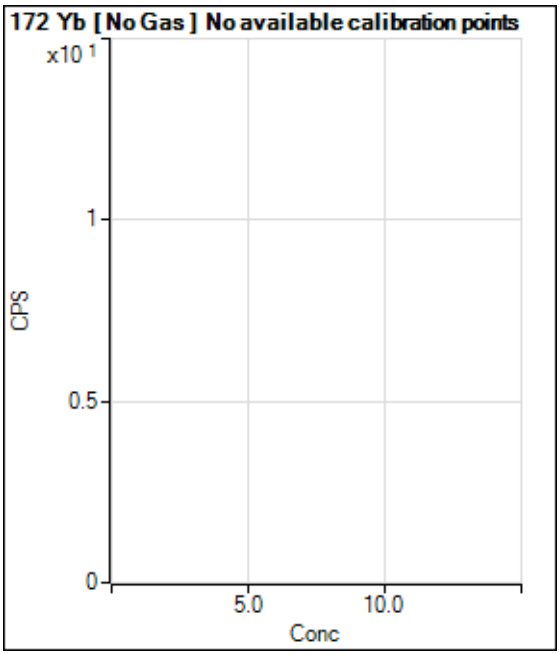


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			122.22		P	20.7
2	☐			86.67		P	24.0
3	☐			143.34		P	15.2
4	☐			140.00		P	8.6
5	☐			138.89		P	6.9
6	☐			182.22		P	11.2
7	☐			271.12		P	6.2
8	☐			733.36		P	6.1

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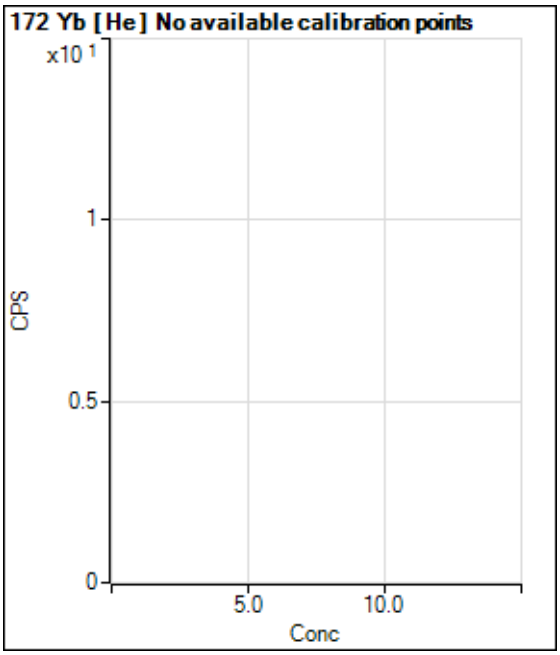


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1	☐			32.22		P	21.5
2	☐			26.67		P	37.5
3	☐			41.11		P	18.7
4	☐			46.67		P	28.6
5	☐			54.45		P	19.7
6	☐			55.55		P	12.5
7	☐			97.78		P	20.5
8	☐			225.56		P	14.6

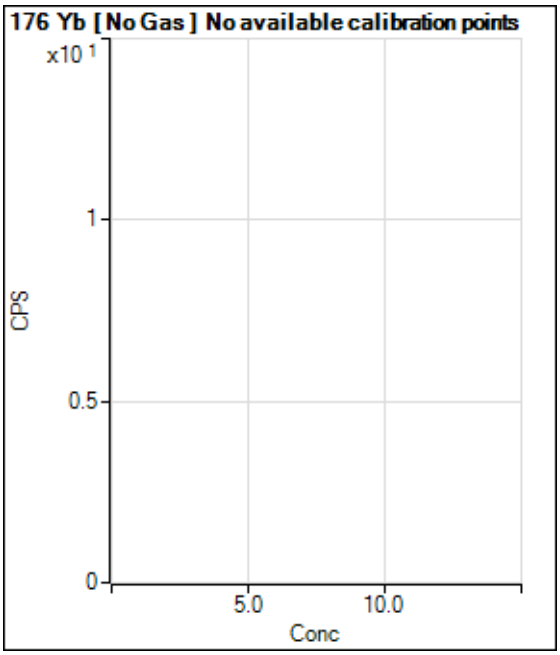


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			125.56		P	8.1
2	☐			128.89		P	9.1
3	☐			103.33		P	8.5
4	☐			144.45		P	25.5
5	☐			148.89		P	7.2
6	☐			230.01		P	12.9
7	☐			313.34		P	15.1
8	☐			862.26		P	7.6

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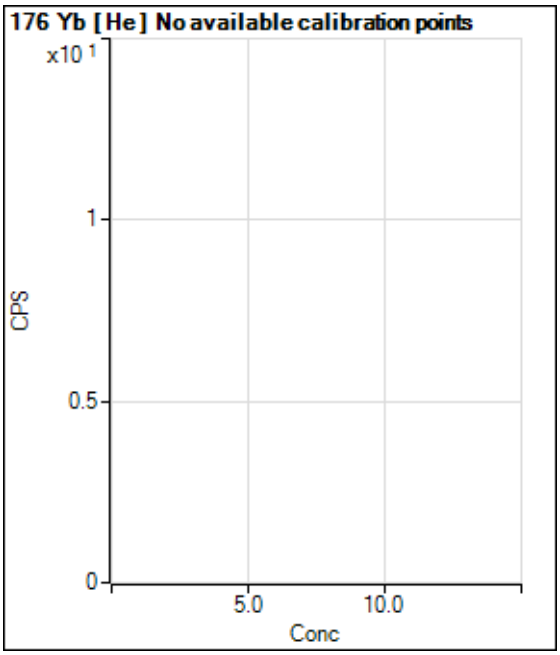


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			34.44		P	47.7
2	☐			40.00		P	30.0
3	☐			47.78		P	14.5
4	☐			54.44		P	9.4
5	☐			75.55		P	22.2
6	☐			58.89		P	18.2
7	☐			127.78		P	6.6
8	☐			332.23		P	11.2

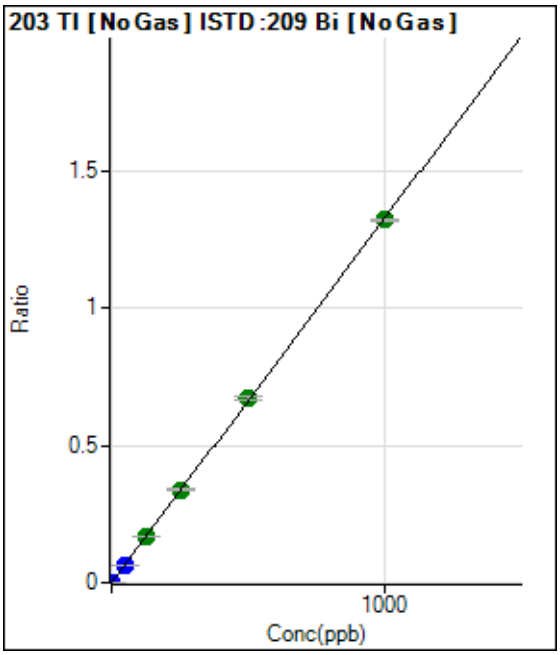


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1	☐			2189.10		P	15.6
2	☐			2255.77		P	4.4
3	☐			6351.59		P	1.6
4	☐			12213.51		P	1.8
5	☐			22188.75		P	1.4
6	☐			41934.12		P	2.2
7	☐			81353.87		P	0.6
8	☐			2636.96		P	2.1

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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

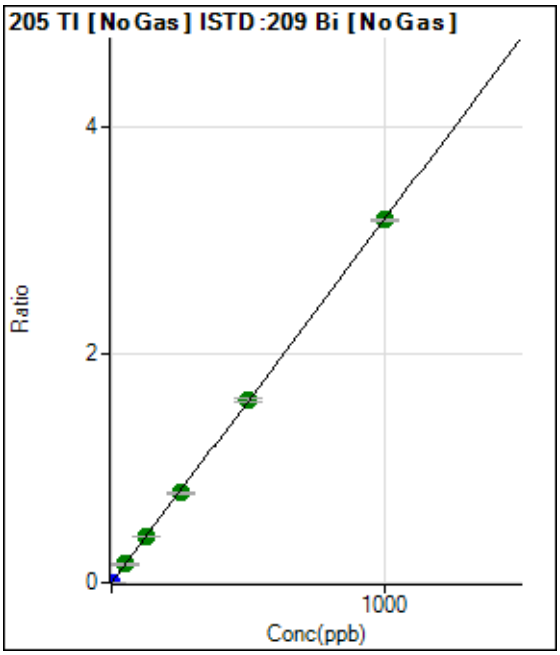


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	378.90	0.0000	P	9.1
2	☐	1.000	1.022	18387.57	0.0014	P	2.3
3	☐	50.000	49.097	870915.41	0.0652	P	1.3
4	☐	125.000	125.576	2198868.73	0.1667	A	1.2
5	☐	250.000	253.695	4390439.31	0.3368	A	2.2
6	☐	500.000	505.342	8583471.26	0.6708	A	1.7
7	☐	1000.000	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

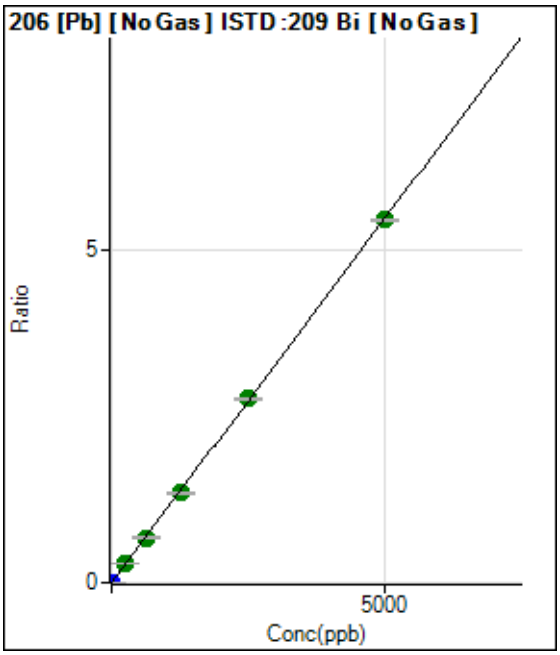
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	924.49	0.0001	P	6.8
2	☐	1.000	1.029	44425.90	0.0033	P	0.8
3	☐	50.000	50.454	2146047.26	0.1607	A	1.4
4	☐	125.000	125.413	5266100.86	0.3992	A	0.2
5	☐	250.000	246.593	10233455.05	0.7849	A	2.0
6	☐	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

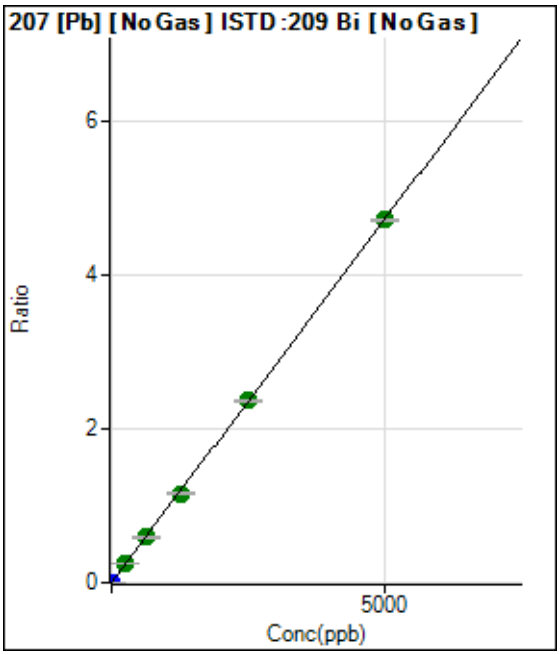


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2149.09	0.0002	P	4.1
2	☐	1.000	0.992	16577.36	0.0012	P	1.5
3	☐	250.000	256.478	3751403.03	0.2808	A	1.3
4	☐	625.000	619.413	8942510.35	0.6780	A	1.1
5	☐	1250.000	1241.290	17711257.79	1.3585	A	2.0
6	☐	2500.000	2531.068	35444687.25	2.7698	A	1.3
7	☐	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

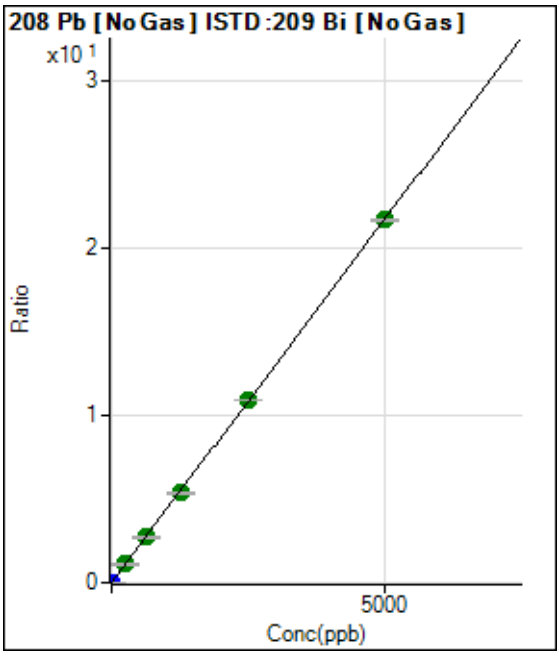
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1734.58	0.0001	P	4.7
2	☐	1.000	0.989	14113.35	0.0011	P	0.5
3	☐	250.000	253.715	3193850.86	0.2391	A	1.1
4	☐	625.000	622.848	7738943.15	0.5867	A	1.2
5	☐	1250.000	1229.328	15095505.61	1.1579	A	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

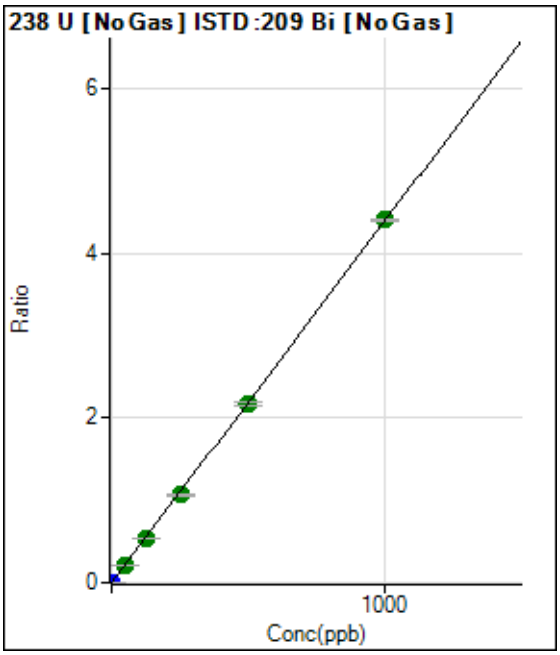


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8146.64	0.0006	P	2.5
2	☐	1.000	0.998	65729.19	0.0050	P	0.4
3	☐	250.000	252.313	14643378.98	1.0962	A	1.0
4	☐	625.000	623.682	35727693.22	2.7086	A	0.9
5	☐	1250.000	1233.854	69852444.24	5.3580	A	2.4
6	☐	2500.000	2515.575	139786392.0	10.9232	A	0.9
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

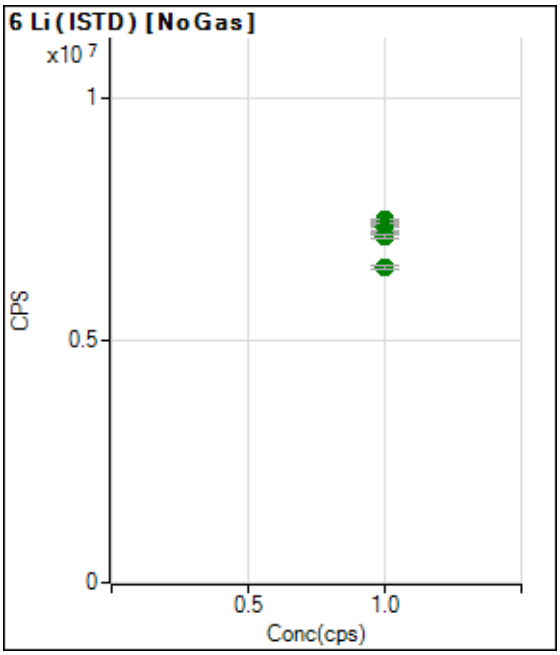
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	164.45	0.0000	P	24.8
2	☐	1.000	0.965	56322.17	0.0042	P	0.7
3	☐	50.000	49.554	2901633.08	0.2172	A	0.7
4	☐	125.000	122.784	7098609.54	0.5382	A	1.2
5	☐	250.000	242.499	13858141.04	1.0629	A	2.0
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

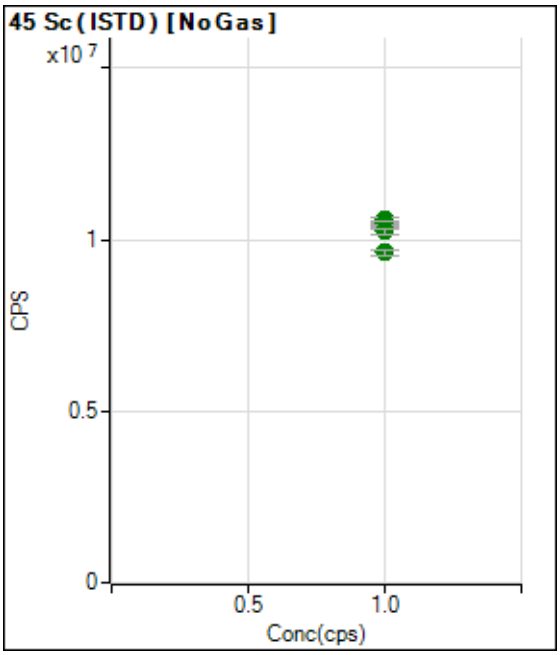
y = 0.0044 * x + 1.2491E-005
R = 1.0000
DL = 0.002124
BEC = 0.00285

Weight: <None>
Min Conc: 0

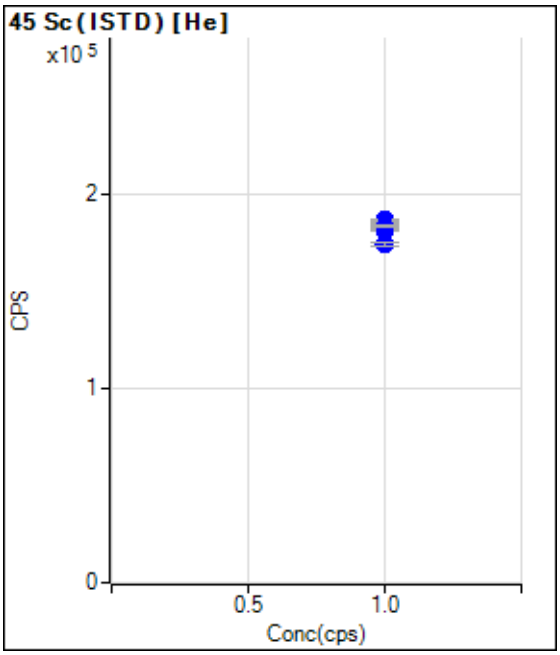


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7423441.25		A	1.3
2	☐	1.000		7477615.36		A	0.8
3	☐	1.000		7413901.76		A	2.1
4	☐	1.000		7417953.29		A	1.7
5	☐	1.000		7331348.65		A	2.1
6	☐	1.000		7234025.45		A	1.0
7	☐	1.000		7122742.22		A	1.2
8	☐	1.000		6504285.31		A	1.5

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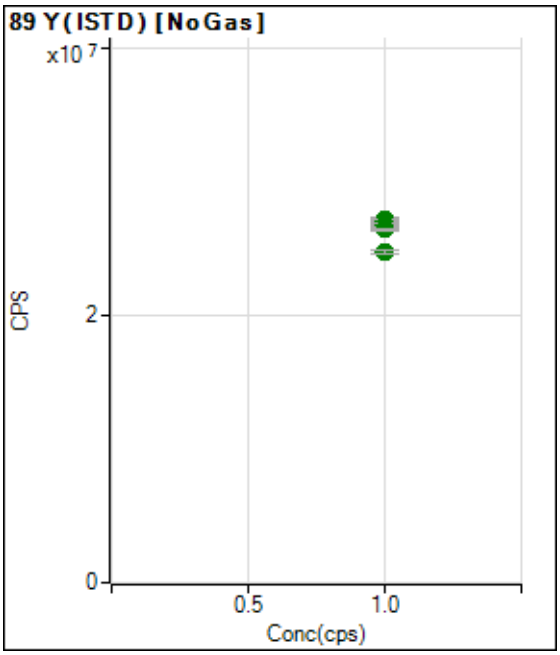


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1	☐	1.000		10464420.81		A	0.7
2	☐	1.000		10402583.87		A	0.4
3	☐	1.000		10570873.94		A	1.1
4	☐	1.000		10458657.14		A	0.4
5	☐	1.000		10482539.64		A	1.2
6	☐	1.000		10267841.31		A	2.0
7	☐	1.000		10226560.54		A	1.4
8	☐	1.000		9618838.75		A	1.5

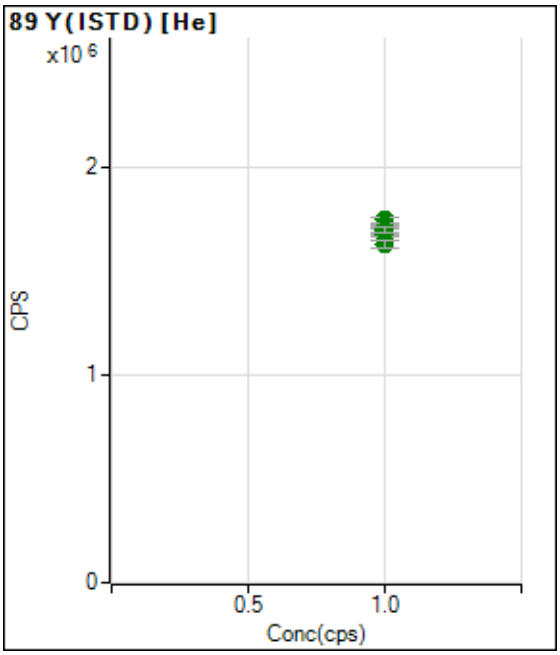


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		184856.14		P	1.5
2	☐	1.000		187166.28		P	0.8
3	☐	1.000		183381.76		P	0.5
4	☐	1.000		184827.42		P	0.7
5	☐	1.000		184491.19		P	2.0
6	☐	1.000		182010.14		P	0.7
7	☐	1.000		183845.21		P	0.3
8	☐	1.000		174968.61		P	1.1

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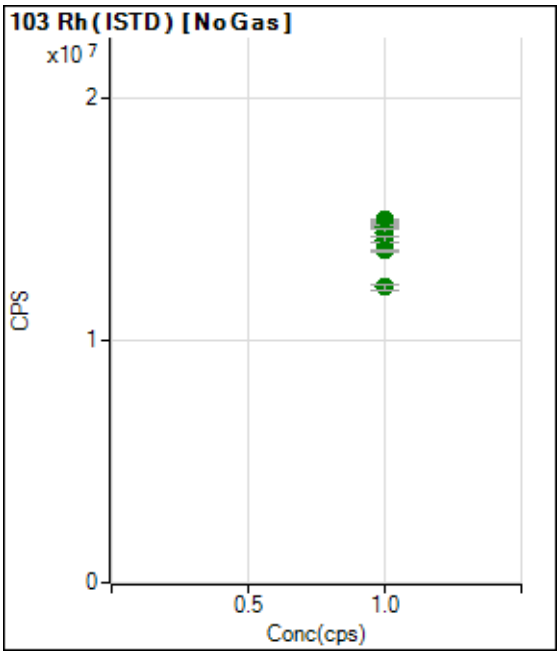


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1		1.000		27049771.54		A	0.2
2		1.000		26941753.77		A	0.9
3		1.000		27185464.87		A	1.4
4		1.000		27118289.32		A	0.8
5		1.000		26909883.49		A	2.1
6		1.000		26830286.27		A	1.1
7		1.000		26462815.44		A	0.9
8		1.000		24838338.52		A	1.1

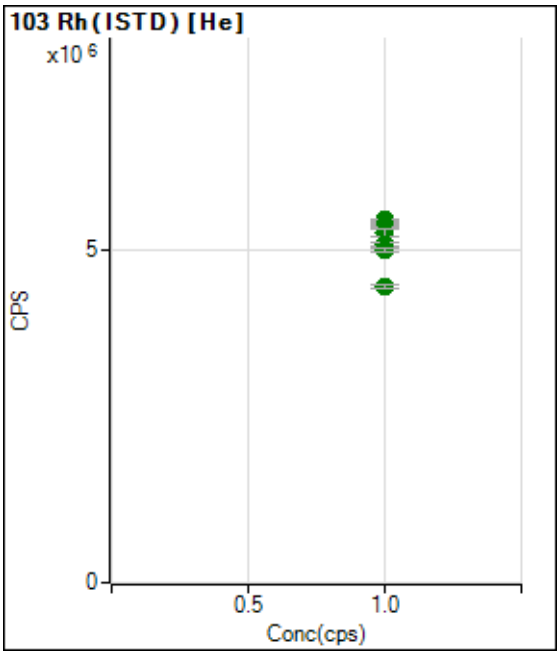


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1		1.000		1714175.79		A	0.8
2		1.000		1742951.64		A	1.3
3		1.000		1708394.14		A	1.4
4		1.000		1715072.35		A	0.6
5		1.000		1698412.36		A	3.4
6		1.000		1670128.03		A	0.9
7		1.000		1695056.34		A	1.4
8		1.000		1624114.92		A	2.4

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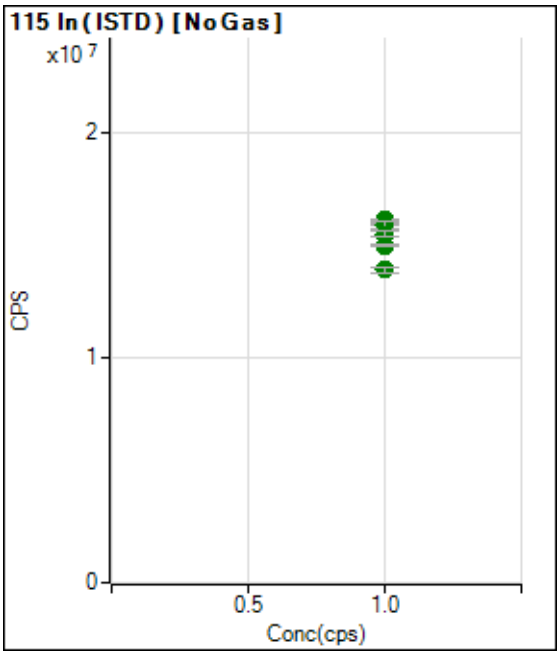


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14734637.00		A	1.2
2	☐	1.000		14971739.50		A	0.3
3	☐	1.000		14808382.14		A	0.8
4	☐	1.000		14683971.45		A	1.1
5	☐	1.000		14422062.98		A	2.0
6	☐	1.000		14146720.90		A	2.0
7	☐	1.000		13695039.24		A	0.9
8	☐	1.000		12196135.93		A	1.7

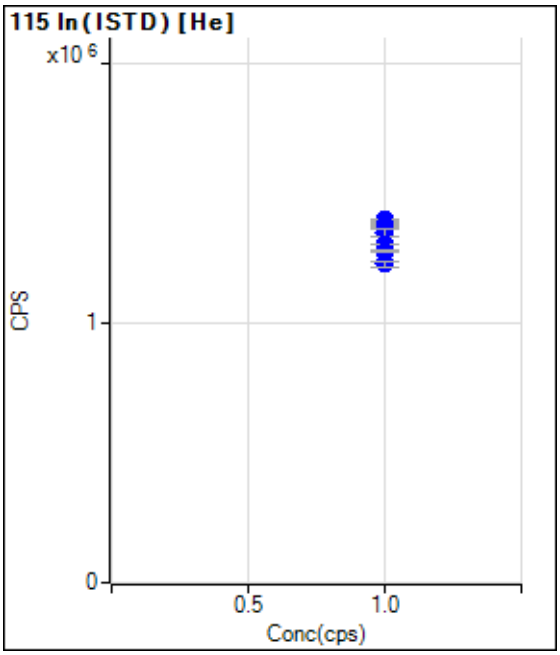


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5414031.86		A	0.9
2	☐	1.000		5440344.36		A	0.7
3	☐	1.000		5350975.03		A	0.6
4	☐	1.000		5313886.52		A	0.6
5	☐	1.000		5250853.19		A	2.2
6	☐	1.000		5075515.90		A	1.1
7	☐	1.000		4980942.39		A	1.3
8	☐	1.000		4445461.63		A	1.1

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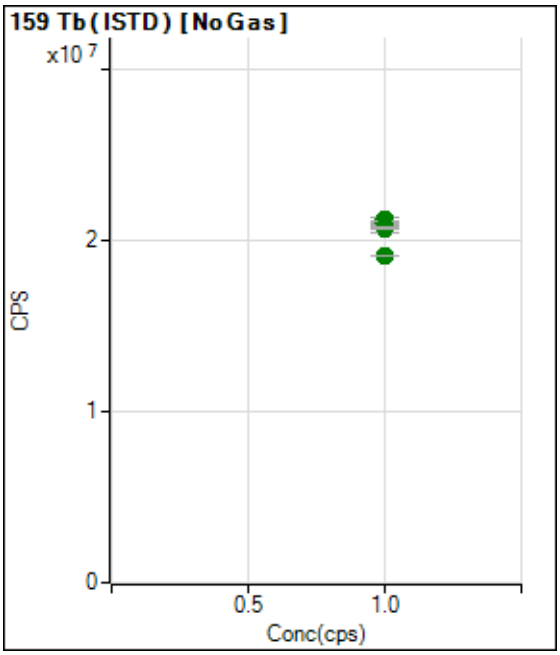


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16037263.07		A	0.3
2	☐	1.000		16147299.06		A	0.7
3	☐	1.000		16138883.73		A	0.9
4	☐	1.000		15937920.51		A	0.7
5	☐	1.000		15889066.42		A	2.1
6	☐	1.000		15514528.60		A	1.8
7	☐	1.000		15001307.48		A	0.6
8	☐	1.000		13929933.79		A	1.6

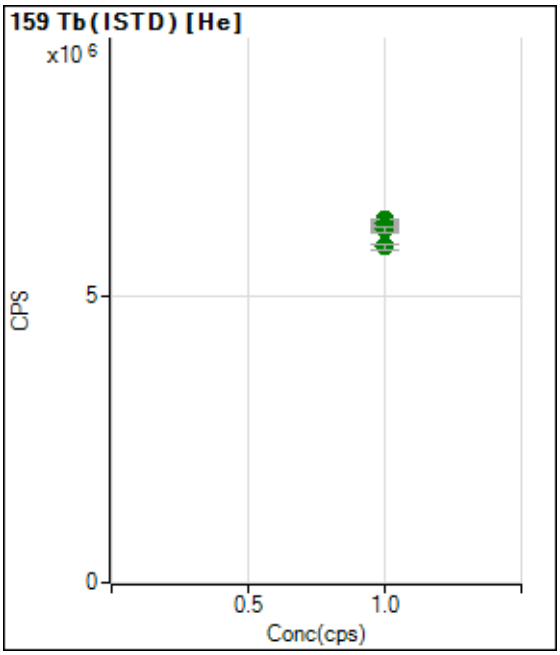


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1386412.82		P	0.3
2	☐	1.000		1398261.54		P	0.7
3	☐	1.000		1375348.97		P	0.6
4	☐	1.000		1365568.58		P	0.2
5	☐	1.000		1349042.93		P	2.7
6	☐	1.000		1306108.62		P	0.3
7	☐	1.000		1276745.53		P	0.4
8	☐	1.000		1227208.67		P	1.8

Reviewed By:Mohan
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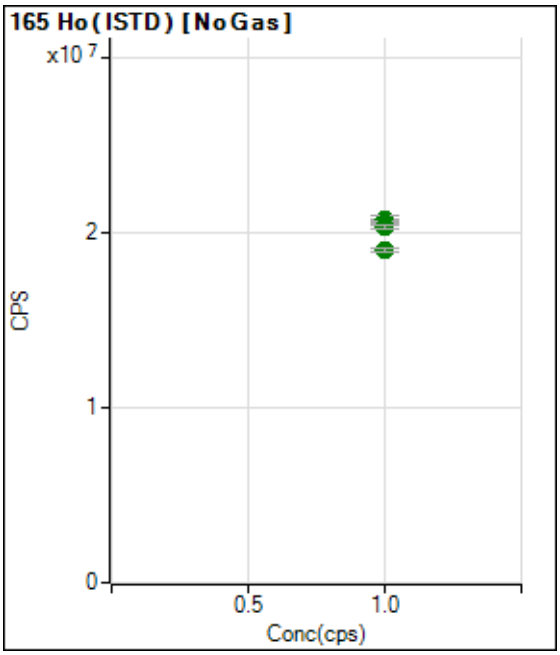


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20667778.17		A	1.4
2	☐	1.000		20907060.52		A	0.7
3	☐	1.000		21230676.63		A	1.1
4	☐	1.000		21088796.21		A	0.8
5	☐	1.000		21014332.47		A	1.6
6	☐	1.000		21157596.76		A	0.1
7	☐	1.000		20778610.11		A	0.7
8	☐	1.000		19114230.83		A	0.1

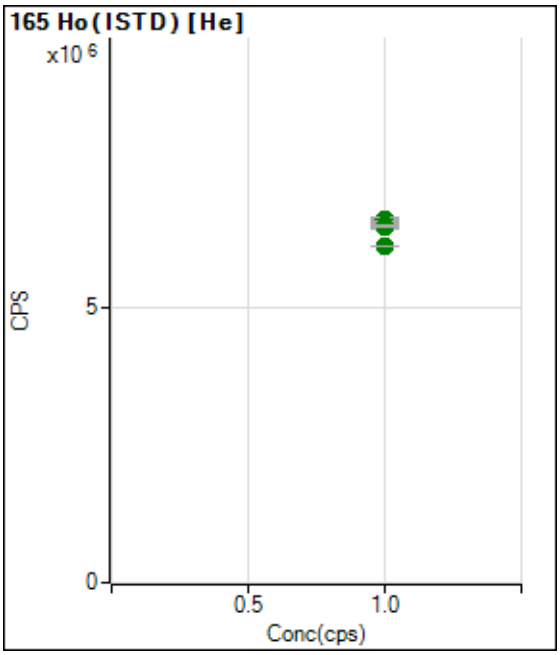


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6324544.28		A	0.3
2	☐	1.000		6272043.17		A	0.5
3	☐	1.000		6237170.18		A	0.4
4	☐	1.000		6241130.19		A	1.0
5	☐	1.000		6254895.67		A	2.9
6	☐	1.000		6191560.88		A	1.3
7	☐	1.000		6151420.25		A	1.3
8	☐	1.000		5858378.73		A	1.8

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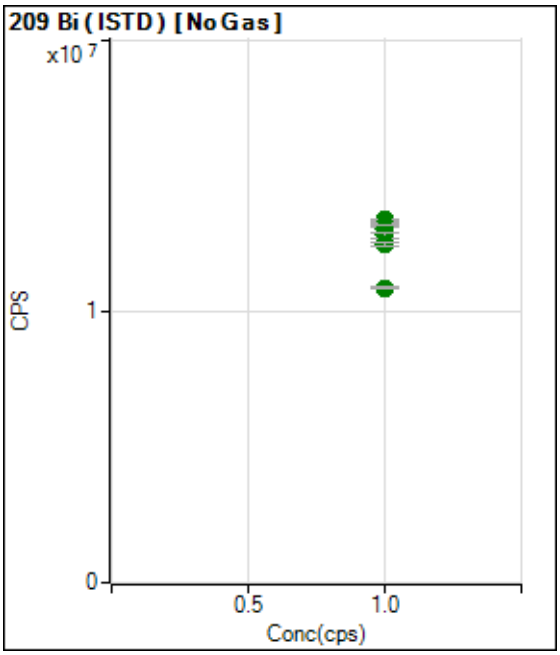


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20556050.94		A	0.9
2	☐	1.000		20696992.19		A	0.3
3	☐	1.000		20675908.02		A	0.6
4	☐	1.000		20629429.42		A	0.3
5	☐	1.000		20735622.33		A	2.2
6	☐	1.000		20600766.22		A	0.7
7	☐	1.000		20305066.09		A	0.9
8	☐	1.000		19042269.30		A	1.0

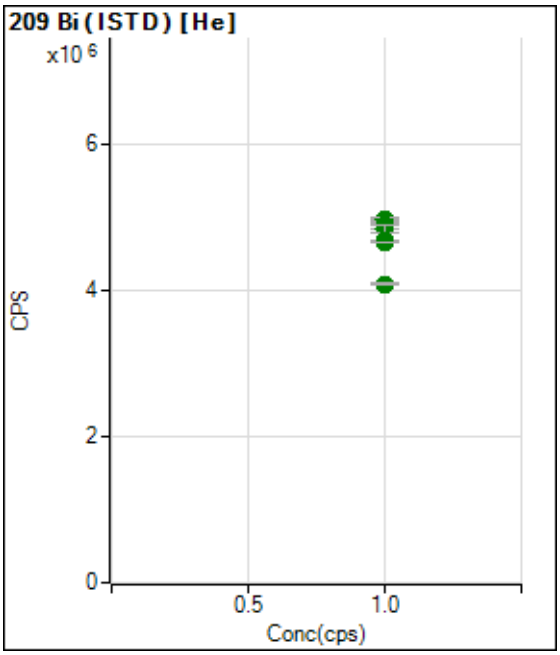


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6514911.64		A	1.0
2	☐	1.000		6552088.93		A	0.9
3	☐	1.000		6532102.61		A	0.7
4	☐	1.000		6576114.35		A	0.9
5	☐	1.000		6475222.33		A	2.1
6	☐	1.000		6457489.56		A	0.4
7	☐	1.000		6449639.21		A	0.6
8	☐	1.000		6103709.08		A	0.4

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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

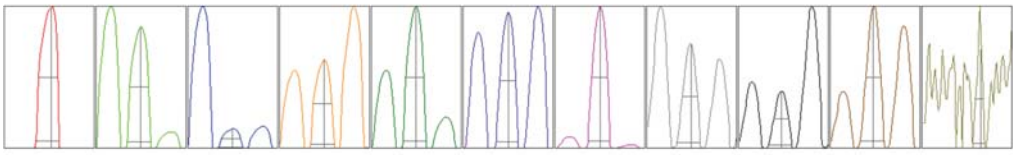
Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8
ClientSampleId :TUNE005

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

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
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

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

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
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

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

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

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

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

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
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

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
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
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
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
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

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
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
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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

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
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
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

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
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

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
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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

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

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
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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

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
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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

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
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

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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

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

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
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
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

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
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
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
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
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
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

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
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

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
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

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
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

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
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

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	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

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	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

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	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

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	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
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	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

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	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 :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.42	4.82	5.49	4.91	11.06	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	12.71	ppb
Arsenic	75-2	5.74	5.91	5.74	5.80	1.70	ppb
Barium	135-1	38.25	37.90	39.64	38.60	2.39	ppb
Barium	137-1	37.68	38.57	39.36	38.53	2.19	ppb
Beryllium	9-1	0.12	0.12	0.12	0.12	1.55	ppb
Bismuth	209-1				96		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.07	0.10	0.07	36.43	ppb
Cadmium	106-1	-2.12	-1.71	-0.95	-1.60		ppb
Cadmium	111-1	-0.16	-0.13	-0.08	-0.12		ppb
Calcium	43-1	11672.89	11688.90	11463.17	11608.32	1.09	ppb
Calcium	44-1	11869.61	11676.30	11496.46	11680.79	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.36	0.33	0.36	0.35	5.53	ppb
Cobalt	59-2	2.55	2.56	2.53	2.55	0.68	ppb
Copper	63-2	1.05	1.09	1.05	1.06	1.73	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				99		%
Holmium	165-2				98		%
Indium	115-1				99		%
Indium	115-2				95		%
Iron	54-2	12996.19	12969.38	12999.98	12988.52	0.13	ppb
Iron	56-2	12792.55	12820.52	12746.36	12786.48	0.29	ppb
Iron	57-2	12694.29	12570.09	12590.21	12618.20	0.53	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.06	0.07	0.06	12.64	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.08	0.08	0.07	11.98	ppb
Lead	208-1	0.07	0.07	0.07	0.07	6.27	ppb
Lithium	6-1				98		%
Magnesium	24-2	3069.12	3034.82	3030.90	3044.95	0.69	ppb
Manganese	55-2	671.13	670.89	673.08	671.70	0.18	ppb
Molybdenum	94-1	0.27	0.29	0.27	0.28	3.63	ppb
Molybdenum	95-1	0.28	0.28	0.29	0.28	2.95	ppb
Molybdenum	96-1	0.30	0.30	0.28	0.29	4.13	ppb
Molybdenum	97-1	0.26	0.28	0.29	0.27	4.77	ppb
Molybdenum	98-1	0.29	0.29	0.27	0.28	4.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.84	3.80	3.63	3.76	3.00	ppb
Phosphorus	31-2	416.23	480.67	457.81	451.57	7.23	ppb
Potassium	39-2	765.39	776.69	777.93	773.33	0.89	ppb
Rhodium	103-1				97		%
Rhodium	103-2				96		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	0.66	0.81	0.35	0.61	38.75	ppb
Selenium	77-2	-0.31	-0.31	1.58	0.32	338.94	ppb
Selenium	78-2	0.01	1.41	0.00	0.48	170.98	ppb
Silicon	28-1	14324.55	14215.06	13787.13	14108.91	2.01	ppb
Silver	107-1	0.00	0.00	0.00	0.00	186.36	ppb
Silver	109-1	0.00	0.00	0.01	0.00	41.43	ppb
Sodium	23-2	101055.95	100207.65	98350.26	99871.29	1.39	ppb
Strontium	86-1	86.87	87.96	88.47	87.76	0.93	ppb
Strontium	88-1	89.75	90.15	91.01	90.30	0.71	ppb
Sulfur	34-1	27977.59	28190.68	26756.72	27641.66	2.80	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	0.01	0.00	0.00	0.00	67.63	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	37.61	ppb
Tin	118-1	-0.01	0.01	0.00	0.00	491.72	ppb
Titanium	47-1	1.18	1.15	1.32	1.22	7.24	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	7.55	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.64	0.61	0.59	0.61	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				97		%
Zinc	66-2	4.15	4.51	4.57	4.41	5.15	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	8.18	ppb
Zirconium	91-1	0.05	0.06	0.03	0.05	38.40	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	32.82	31.82	33.66	32.77	2.82	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	4.65	ppb
Arsenic	75-2	0.35	0.38	0.34	0.36	6.00	ppb
Barium	135-1	86.01	87.37	85.65	86.34	1.05	ppb
Barium	137-1	87.17	88.46	87.64	87.76	0.74	ppb
Beryllium	9-1	0.31	0.32	0.31	0.31	1.92	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.19	0.25	0.28	0.24	19.48	ppb
Cadmium	106-1	-0.66	-2.04	-1.23	-1.31		ppb
Cadmium	111-1	0.15	0.06	0.11	0.11	39.37	ppb
Calcium	43-1	5538.20	5562.31	5509.29	5536.60	0.48	ppb
Calcium	44-1	5677.20	5652.42	5552.71	5627.44	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.99	0.99	0.95	0.98	2.43	ppb
Cobalt	59-2	3.56	3.61	3.62	3.60	0.83	ppb
Copper	63-2	0.18	0.27	0.27	0.24	20.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	216.96	222.35	219.03	219.44	1.24	ppb
Iron	56-2	214.96	219.20	217.35	217.17	0.98	ppb
Iron	57-2	214.32	219.61	219.84	217.92	1.43	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.02	0.02	0.03	36.72	ppb

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.03	0.04	0.04	25.99	ppb
Lead	208-1	0.04	0.03	0.03	0.04	14.90	ppb
Lithium	6-1				101		%
Magnesium	24-2	1646.10	1644.79	1655.50	1648.80	0.35	ppb
Manganese	55-2	208.52	210.39	209.20	209.37	0.45	ppb
Molybdenum	94-1	0.06	0.05	0.06	0.06	5.72	ppb
Molybdenum	95-1	0.04	0.04	0.04	0.04	3.50	ppb
Molybdenum	96-1	0.04	0.03	0.04	0.04	16.73	ppb
Molybdenum	97-1	0.04	0.03	0.03	0.04	26.00	ppb
Molybdenum	98-1	0.04	0.04	0.04	0.04	2.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	9.00	9.01	9.01	9.01	0.09	ppb
Phosphorus	31-2	-4.02	8.95	6.30	3.75	182.90	ppb
Potassium	39-2	799.33	793.44	792.50	795.09	0.47	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				101		%
Scandium	45-2				101		%
Selenium	82-1	0.39	0.62	0.63	0.54	25.00	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.54	0.54	0.56	0.55	1.26	ppb
Silicon	28-1	10569.59	10446.37	10439.27	10485.08	0.70	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	48.65	ppb
Sodium	23-2	28112.89	28724.10	28083.07	28306.69	1.28	ppb
Strontium	86-1	57.92	58.54	58.95	58.47	0.88	ppb
Strontium	88-1	59.85	60.46	59.43	59.91	0.87	ppb
Sulfur	34-1	8687.40	7938.44	7788.23	8138.02	5.92	ppb
Terbium	159-1				102		%
Terbium	159-2				100		%
Thallium	203-1	0.01	0.00	0.01	0.01	50.72	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	4.60	ppb
Tin	118-1	0.07	0.05	0.04	0.05	23.14	ppb
Titanium	47-1	0.79	0.76	0.79	0.78	2.10	ppb
Uranium	238-1	0.01	0.02	0.01	0.01	3.47	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.22	0.21	0.22	0.22	2.85	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	12.81	12.19	12.23	12.41	2.79	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	35.69	ppb
Zirconium	91-1	0.01	0.02	0.01	0.01	12.01	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10.39	9.93	9.41	9.91	4.95	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	6.04	ppb
Arsenic	75-2	0.29	0.25	0.43	0.32	30.48	ppb
Barium	135-1	34.32	35.55	35.61	35.16	2.08	ppb
Barium	137-1	34.91	35.36	35.79	35.35	1.24	ppb
Beryllium	9-1	0.12	0.11	0.12	0.12	7.14	ppb
Bismuth	209-1				98		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	0.07	0.06	0.09	0.07	23.46	ppb
Cadmium	106-1	-1.12	-0.20	-1.28	-0.87		ppb
Cadmium	111-1	-0.09	-0.02	-0.10	-0.07		ppb
Calcium	43-1	7321.57	7427.94	7399.05	7382.85	0.75	ppb
Calcium	44-1	7554.73	7627.81	7538.61	7573.72	0.63	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.51	1.56	1.55	1.54	1.87	ppb
Cobalt	59-2	0.92	0.97	0.91	0.94	3.55	ppb
Copper	63-2	-0.12	-0.09	-0.11	-0.11		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	54-2	2019.00	2039.72	1992.72	2017.15	1.17	ppb
Iron	56-2	2017.83	2051.29	2043.01	2037.38	0.86	ppb
Iron	57-2	2001.55	2062.42	1999.27	2021.08	1.77	ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.03	0.02	36.52	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.03	0.03	0.04	0.04	13.24	ppb
Lead	208-1	0.03	0.03	0.04	0.03	18.44	ppb
Lithium	6-1				101		%
Magnesium	24-2	3696.52	3719.68	3628.02	3681.41	1.29	ppb
Manganese	55-2	667.56	682.87	674.95	675.13	1.13	ppb
Molybdenum	94-1	0.18	0.15	0.17	0.17	9.30	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	16.18	ppb
Molybdenum	96-1	0.03	0.03	0.04	0.03	15.29	ppb
Molybdenum	97-1	0.02	0.01	0.01	0.02	31.88	ppb
Molybdenum	98-1	0.02	0.02	0.03	0.03	15.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	16.76	16.68	16.66	16.70	0.33	ppb
Phosphorus	31-2	221.28	233.94	203.31	219.51	7.01	ppb
Potassium	39-2	531.95	551.32	543.94	542.41	1.80	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	0.54	0.88	0.70	0.71	23.84	ppb
Selenium	77-2	2.45	3.30	4.00	3.25	23.98	ppb
Selenium	78-2	0.80	0.52	1.50	0.94	53.29	ppb
Silicon	28-1	30339.66	30575.84	30698.99	30538.16	0.60	ppb
Silver	107-1	0.00	0.00	0.00	0.00		ppb
Silver	109-1	0.00	0.00	0.00	0.00	223.92	ppb
Sodium	23-2	107450.87	108774.74	105457.73	107227.78	1.56	ppb
Strontium	86-1	77.06	76.25	78.63	77.32	1.57	ppb
Strontium	88-1	80.23	80.82	81.21	80.75	0.61	ppb
Sulfur	34-1	28600.01	28927.01	28024.85	28517.29	1.60	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	180.05	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	146.77	ppb
Tin	118-1	0.04	0.02	0.02	0.03	37.13	ppb
Titanium	47-1	2.10	2.21	2.47	2.26	8.40	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	26.69	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.87	1.90	1.84	1.87	1.41	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				104		%
Zinc	66-2	1.72	1.70	1.73	1.72	1.07	ppb
Zirconium	90-1	0.09	0.08	0.08	0.08	5.80	ppb
Zirconium	91-1	0.09	0.06	0.07	0.07	15.61	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	71.56	64.93	65.55	67.35	5.44	ppb
Antimony	121-1	0.17	0.17	0.16	0.16	3.98	ppb
Arsenic	75-2	2.93	2.42	2.62	2.66	9.68	ppb
Barium	135-1	66.21	68.39	68.11	67.57	1.76	ppb
Barium	137-1	66.76	68.45	69.23	68.15	1.85	ppb
Beryllium	9-1	0.36	0.38	0.37	0.37	2.76	ppb
Bismuth	209-1				101		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	0.13	0.13	0.17	0.14	15.57	ppb
Cadmium	106-1	-1.46	-0.80	-0.82	-1.03		ppb
Cadmium	111-1	-0.02	0.04	0.03	0.02	156.94	ppb
Calcium	43-1	20923.42	21202.66	21381.98	21169.35	1.09	ppb
Calcium	44-1	20893.69	21412.37	21472.84	21259.63	1.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.81	0.82	0.83	0.82	1.44	ppb
Cobalt	59-2	8.45	8.31	8.32	8.36	0.93	ppb
Copper	63-2	1.91	1.85	1.88	1.88	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				102		%
Indium	115-1				104		%
Indium	115-2				101		%
Iron	54-2	1794.18	1774.81	1791.95	1786.98	0.59	ppb
Iron	56-2	1813.85	1785.14	1763.55	1787.51	1.41	ppb
Iron	57-2	1778.67	1754.88	1767.50	1767.02	0.67	ppb
Krypton	83-1						cps
Lead	206-1	0.50	0.50	0.52	0.51	1.48	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.50	0.47	0.50	0.49	3.79	ppb
Lead	208-1	0.50	0.48	0.50	0.49	1.94	ppb
Lithium	6-1				102		%
Magnesium	24-2	2031.20	2001.74	2005.91	2012.95	0.79	ppb
Manganese	55-2	494.70	488.68	488.26	490.55	0.73	ppb
Molybdenum	94-1	0.96	1.01	0.99	0.99	2.74	ppb
Molybdenum	95-1	0.97	0.94	0.97	0.96	1.90	ppb
Molybdenum	96-1	0.94	0.93	0.99	0.95	3.34	ppb
Molybdenum	97-1	0.93	0.98	0.98	0.96	3.00	ppb
Molybdenum	98-1	0.91	0.95	0.97	0.94	3.14	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.38	4.39	4.29	4.35	1.31	ppb
Phosphorus	31-2	65.14	43.16	49.01	52.44	21.71	ppb
Potassium	39-2	1012.26	1001.91	999.21	1004.46	0.69	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				104		%
Selenium	82-1	0.45	0.74	0.76	0.65	26.31	ppb
Selenium	77-2	2.41	5.91	4.12	4.15	42.22	ppb
Selenium	78-2	1.58	2.33	1.03	1.65	39.71	ppb
Silicon	28-1	9565.02	9780.41	9877.36	9740.93	1.64	ppb
Silver	107-1	0.00	0.00	0.00	0.00	57.08	ppb
Silver	109-1	0.00	0.00	0.00	0.00	10.65	ppb
Sodium	23-2	12409.89	12385.05	12459.85	12418.26	0.31	ppb
Strontium	86-1	77.78	78.87	79.08	78.58	0.89	ppb
Strontium	88-1	80.24	80.32	82.13	80.89	1.32	ppb
Sulfur	34-1	7046.28	7297.31	7356.56	7233.39	2.28	ppb
Terbium	159-1				104		%
Terbium	159-2				102		%
Thallium	203-1	0.03	0.03	0.03	0.03	10.05	ppb
Thallium	205-1	0.02	0.03	0.02	0.02	1.99	ppb
Tin	118-1	0.05	0.05	0.06	0.05	10.82	ppb
Titanium	47-1	1.21	1.52	1.41	1.38	11.55	ppb
Uranium	238-1	0.16	0.17	0.16	0.16	2.54	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.29	2.20	2.27	2.25	2.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				104		%
Yttrium	89-2				104		%
Zinc	66-2	25.42	24.14	23.57	24.38	3.89	ppb
Zirconium	90-1	0.10	0.17	0.11	0.12	30.14	ppb
Zirconium	91-1	0.10	0.10	0.11	0.11	7.60	ppb

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	46.20	48.57	44.68	46.48	4.22	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	5.80	ppb
Arsenic	75-2	3.70	3.78	4.16	3.88	6.29	ppb
Barium	135-1	52.40	50.59	50.66	51.22	2.01	ppb
Barium	137-1	52.36	51.18	51.50	51.68	1.18	ppb
Beryllium	9-1	0.01	0.01	0.00	0.01	100.32	ppb
Bismuth	209-1				100		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.16	0.09	0.10	60.36	ppb
Cadmium	106-1	-0.51	-0.78	-1.02	-0.77		ppb
Cadmium	111-1	-0.01	-0.06	-0.06	-0.04		ppb
Calcium	43-1	10399.33	10498.62	10364.52	10420.83	0.67	ppb
Calcium	44-1	10583.77	10482.43	10513.00	10526.40	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.18	0.20	0.18	0.18	6.17	ppb
Cobalt	59-2	2.47	2.33	2.45	2.42	3.02	ppb
Copper	63-2	-0.07	-0.12	-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				101		%
Indium	115-2				98		%
Iron	54-2	6036.54	6018.13	6043.18	6032.62	0.22	ppb
Iron	56-2	6141.24	6097.63	6125.02	6121.30	0.36	ppb
Iron	57-2	6019.22	5979.60	6003.96	6000.93	0.33	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.19	0.19	0.18	7.65	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.20	0.16	0.19	0.18	10.14	ppb
Lead	208-1	0.18	0.18	0.19	0.18	1.15	ppb
Lithium	6-1				102		%
Magnesium	24-2	2165.84	2153.60	2169.97	2163.14	0.39	ppb
Manganese	55-2	161.77	161.59	163.09	162.15	0.50	ppb
Molybdenum	94-1	0.19	0.16	0.16	0.17	10.23	ppb
Molybdenum	95-1	0.10	0.10	0.09	0.10	3.09	ppb
Molybdenum	96-1	0.09	0.11	0.11	0.10	7.44	ppb
Molybdenum	97-1	0.08	0.09	0.09	0.09	4.96	ppb
Molybdenum	98-1	0.10	0.10	0.10	0.10	0.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.08	4.13	4.03	4.08	1.21	ppb
Phosphorus	31-2	129.20	142.98	153.73	141.97	8.66	ppb
Potassium	39-2	619.15	624.21	620.28	621.21	0.43	ppb
Rhodium	103-1				101		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	0.09	0.42	0.05	0.19	106.91	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	0.27	0.26	0.28	0.27	4.15	ppb
Silicon	28-1	9100.36	9237.63	8984.01	9107.34	1.39	ppb
Silver	107-1	0.00	0.00	0.00	0.00	542.96	ppb
Silver	109-1	0.00	0.00	0.00	0.00	271.15	ppb
Sodium	23-2	28246.40	27879.74	28170.61	28098.91	0.69	ppb
Strontium	86-1	68.57	68.30	67.76	68.21	0.60	ppb
Strontium	88-1	71.45	72.21	70.73	71.46	1.04	ppb
Sulfur	34-1	6780.69	6871.98	6880.40	6844.36	0.81	ppb
Terbium	159-1				101		%
Terbium	159-2				99		%
Thallium	203-1	0.01	0.01	0.01	0.01	23.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.78	ppb
Tin	118-1	0.11	0.12	0.11	0.11	4.65	ppb
Titanium	47-1	1.76	2.16	2.08	2.00	10.56	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	6.27	ppb

Reviewed By:Mohan
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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.10	0.10	0.14	0.12	19.76	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				100		%
Zinc	66-2	7.33	7.61	7.56	7.50	1.97	ppb
Zirconium	90-1	0.05	0.07	0.09	0.07	23.64	ppb
Zirconium	91-1	0.06	0.05	0.10	0.07	39.61	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	48228.10	48176.27	48594.66	48333.01	0.47	ppb
Antimony	121-1	495.34	506.96	509.56	503.95	1.50	ppb
Arsenic	75-2	484.64	489.55	495.57	489.92	1.12	ppb
Barium	135-1	2514.07	2570.28	2591.64	2558.66	1.57	ppb
Barium	137-1	2539.93	2542.66	2580.28	2554.29	0.88	ppb
Beryllium	9-1	482.68	505.72	504.84	497.75	2.62	ppb
Bismuth	209-1				89		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	493.84	491.64	499.51	495.00	0.82	ppb
Cadmium	106-1	493.51	494.61	499.48	495.87	0.64	ppb
Cadmium	111-1	484.99	497.87	508.58	497.15	2.38	ppb
Calcium	43-1	251160.91	252546.30	252625.13	252110.78	0.33	ppb
Calcium	44-1	248966.63	249481.99	249477.90	249308.84	0.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	481.99	501.77	490.70	491.49	2.02	ppb
Cobalt	59-2	473.03	497.13	493.06	487.74	2.64	ppb
Copper	63-2	4630.98	4731.62	4699.31	4687.30	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				98		%
Holmium	165-2				98		%
Indium	115-1				93		%
Indium	115-2				92		%
Iron	54-2	118703.22	123235.01	122761.59	121566.61	2.05	ppb
Iron	56-2	118476.50	122638.82	120547.71	120554.35	1.73	ppb
Iron	57-2	119336.15	122920.40	123289.28	121848.61	1.79	ppb
Krypton	83-1						cps
Lead	206-1	2556.82	2543.19	2569.10	2556.37	0.51	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2525.69	2536.07	2545.47	2535.74	0.39	ppb
Lead	208-1	2542.66	2545.49	2550.26	2546.14	0.15	ppb
Lithium	6-1				96		%
Magnesium	24-2	240985.98	244224.94	243506.67	242905.86	0.70	ppb
Manganese	55-2	4786.97	4998.16	4874.78	4886.64	2.17	ppb
Molybdenum	94-1	4923.42	5003.97	5029.02	4985.47	1.11	ppb
Molybdenum	95-1	4995.66	4974.11	5044.46	5004.74	0.72	ppb
Molybdenum	96-1	5046.04	4969.07	4998.42	5004.51	0.78	ppb
Molybdenum	97-1	4996.03	5002.27	4980.22	4992.84	0.23	ppb
Molybdenum	98-1	4960.26	5035.90	5006.20	5000.79	0.76	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	441.68	458.39	453.36	451.14	1.90	ppb
Phosphorus	31-2	9766.62	10094.96	9986.34	9949.31	1.68	ppb
Potassium	39-2	119959.02	121223.57	121375.41	120852.67	0.64	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				99		%
Scandium	45-2				101		%
Selenium	82-1	484.84	483.15	487.90	485.30	0.50	ppb
Selenium	77-2	439.57	498.52	523.91	487.33	8.88	ppb
Selenium	78-2	480.41	478.76	490.74	483.30	1.34	ppb
Silicon	28-1	514.50	517.65	510.56	514.23	0.69	ppb
Silver	107-1	490.98	485.60	485.63	487.41	0.64	ppb
Silver	109-1	480.76	479.71	492.45	484.31	1.46	ppb
Sodium	23-2	250912.73	256412.69	252650.40	253325.27	1.11	ppb
Strontium	86-1	507.42	513.79	505.08	508.77	0.89	ppb
Strontium	88-1	505.24	501.89	502.12	503.08	0.37	ppb
Sulfur	34-1	10156.85	10164.35	10013.61	10111.60	0.84	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	519.19	516.79	520.20	518.73	0.34	ppb
Thallium	205-1	510.39	517.01	510.09	512.50	0.76	ppb
Tin	118-1	499.87	504.37	502.81	502.35	0.46	ppb
Titanium	47-1	5015.16	4959.44	4985.82	4986.81	0.56	ppb
Uranium	238-1	505.38	506.28	503.38	505.01	0.29	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	473.24	490.77	490.12	484.71	2.05	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	4617.41	4827.66	4856.28	4767.12	2.74	ppb
Zirconium	90-1	496.78	507.27	503.06	502.37	1.05	ppb
Zirconium	91-1	505.86	504.00	508.45	506.10	0.44	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.13	0.09	0.39	0.20	79.29	ppb
Antimony	121-1	0.10	0.10	0.10	0.10	2.58	ppb
Arsenic	75-2	0.00	-0.03	0.00	-0.01		ppb
Barium	135-1	0.10	0.11	0.06	0.09	27.28	ppb
Barium	137-1	0.10	0.11	0.09	0.10	10.05	ppb
Beryllium	9-1	0.11	0.09	0.08	0.09	14.71	ppb
Bismuth	209-1				101		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.09	-0.01	0.05	0.04	120.03	ppb
Cadmium	106-1	-1.05	-1.71	-1.16	-1.31		ppb
Cadmium	111-1	-0.06	-0.11	-0.08	-0.08		ppb
Calcium	43-1	7.81	6.05	4.64	6.17	25.75	ppb
Calcium	44-1	-0.96	-1.74	-1.58	-1.43		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.04	0.05	0.09	0.06	45.68	ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	18.04	ppb
Copper	63-2	-0.15	-0.10	-0.06	-0.10		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				101		%
Holmium	165-2				97		%
Indium	115-1				104		%
Indium	115-2				97		%
Iron	54-2	2.87	2.80	3.83	3.16	18.18	ppb
Iron	56-2	2.95	2.65	3.21	2.94	9.48	ppb
Iron	57-2	2.95	2.19	3.47	2.87	22.53	ppb
Krypton	83-1						cps
Lead	206-1	0.14	0.13	0.12	0.13	9.06	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.11	0.10	0.12	20.92	ppb
Lead	208-1	0.14	0.13	0.11	0.12	11.93	ppb
Lithium	6-1				106		%
Magnesium	24-2	-3.31	-3.25	-1.49	-2.68		ppb
Manganese	55-2	0.20	0.15	0.22	0.19	19.58	ppb
Molybdenum	94-1	0.20	0.14	0.13	0.15	24.19	ppb
Molybdenum	95-1	0.18	0.13	0.11	0.14	25.01	ppb
Molybdenum	96-1	0.16	0.15	0.12	0.14	15.85	ppb
Molybdenum	97-1	0.16	0.14	0.13	0.14	10.30	ppb
Molybdenum	98-1	0.19	0.15	0.12	0.15	21.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.02	0.01	0.13	0.05	120.69	ppb
Phosphorus	31-2	-25.17	-14.66	-17.64	-19.16		ppb
Potassium	39-2	13.87	12.93	20.76	15.85	26.98	ppb
Rhodium	103-1				104		%
Rhodium	103-2				98		%
Scandium	45-1				104		%
Scandium	45-2				98		%
Selenium	82-1	-0.15	0.14	0.34	0.11	215.56	ppb
Selenium	77-2	-0.31	-0.31	-0.31	-0.31		ppb
Selenium	78-2	1.40	0.26	1.20	0.95	63.92	ppb
Silicon	28-1	2.07	3.07	2.19	2.44	22.37	ppb
Silver	107-1	0.04	0.03	0.03	0.03	13.61	ppb
Silver	109-1	0.04	0.04	0.03	0.04	17.95	ppb
Sodium	23-2	59.71	51.30	72.40	61.14	17.37	ppb
Strontium	86-1	-0.04	-0.01	-0.04	-0.03		ppb
Strontium	88-1	-0.02	-0.02	-0.03	-0.02		ppb
Sulfur	34-1	-744.92	-737.90	-546.12	-676.32		ppb
Terbium	159-1				103		%
Terbium	159-2				95		%
Thallium	203-1	0.03	0.02	0.02	0.02	23.25	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	8.91	ppb
Tin	118-1	0.01	0.02	0.02	0.02	26.78	ppb
Titanium	47-1	0.09	0.09	0.07	0.08	17.35	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	29.04	ppb

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	62.24	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	0.20	0.17	0.28	0.22	26.05	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	9.82	ppb
Zirconium	91-1	0.02	0.01	0.02	0.02	34.85	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

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
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

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
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

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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

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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

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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
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

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

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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
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

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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

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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
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

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
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
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
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
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
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

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
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

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

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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
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

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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

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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

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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

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

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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

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

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
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

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

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

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
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

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
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

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

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

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
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

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
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

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

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
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

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
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

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

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
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

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
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

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

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

Reviewed By:Mohan
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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
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

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
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

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

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
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

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	380	407	453	413	8.98	cps
Antimony	121-1	543	497	610	550	10.36	cps
Arsenic	75-2	1657	1697	1673	1676	1.20	cps
Barium	135-1	155801	154745	158488	156345	1.23	cps
Barium	137-1	265021	271892	271739	269551	1.46	cps
Beryllium	9-1	1031	1002	1009	1014	1.49	cps
Bismuth	209-1	12771309	12646340	12618568	12678739	0.64	cps
Bismuth	209-2	4629712	4689615	4676527	4665285	0.68	cps
Bromine	81-1	211747	257467	284060	251091	14.57	cps
Cadmium	108-1	37	43	53	44	18.87	cps
Cadmium	106-1	7402	7612	7799	7604	2.61	cps
Cadmium	111-1	5202	5338	5465	5335	2.46	cps
Calcium	43-1	576742	582458	589147	582783	1.07	cps
Calcium	44-1	9583001	9507784	9655637	9582140	0.77	cps
Carbon	12-1	10145361	11276422	11851980	11091254	7.83	cps
Carbon	12-2	83046	84065	85470	84194	1.45	cps
Chlorine	35-1	3389329	3751561	3897941	3679610	7.12	cps
Chlorine	35-2	15278	15375	15772	15475	1.69	cps
Chromium	52-2	1887	1777	1890	1851	3.48	cps
Cobalt	59-2	15479	15565	15569	15537	0.33	cps
Copper	63-2	8202	8379	8326	8302	1.09	cps
Dysprosium	156-1	1247	1260	1157	1221	4.60	cps
Dysprosium	156-2	407	440	403	417	4.87	cps
Erbium	164-1	1823	1810	1927	1853	3.45	cps
Erbium	164-2	560	600	607	589	4.29	cps
Gadolinium	160-1	1403	1460	1350	1405	3.92	cps
Gadolinium	160-2	543	513	523	527	2.90	cps
Holmium	165-1	20307527	20244716	20698946	20417063	1.21	cps
Holmium	165-2	6418792	6383843	6416169	6406268	0.30	cps
Indium	115-1	15972608	15813101	15731599	15839103	0.77	cps
Indium	115-2	1316622	1304687	1319696	1313668	0.60	cps
Iron	54-2	1632575	1636464	1660834	1643291	0.93	cps
Iron	56-2	29577056	29773740	29971651	29774149	0.66	cps
Iron	57-2	733443	729502	739805	734250	0.71	cps
Krypton	83-1	270	250	323	281	13.49	cps
Lead	206-1	2894	2900	3067	2954	3.33	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2454	2620	2600	2558	3.56	cps
Lead	208-1	11505	11579	11839	11641	1.51	cps
Lithium	6-1	7368283	7291629	7211656	7290523	1.07	cps
Magnesium	24-2	677222	672682	680216	676707	0.56	cps
Manganese	55-2	851827	855313	868828	858656	1.05	cps
Molybdenum	94-1	1964	2074	1963	2000	3.18	cps
Molybdenum	95-1	2480	2527	2620	2542	2.80	cps
Molybdenum	96-1	3010	3014	2817	2947	3.82	cps
Molybdenum	97-1	1470	1567	1607	1548	4.54	cps
Molybdenum	98-1	4154	4101	3824	4026	4.40	cps
Neodymium	150-1	713	707	697	706	1.19	cps
Neodymium	150-2	157	110	167	144	20.94	cps
Nickel	60-2	7302	7265	7065	7211	1.77	cps
Phosphorus	31-2	1280	1467	1420	1389	6.99	cps
Potassium	39-2	99765	101554	102973	101431	1.58	cps
Rhodium	103-1	14425469	14303607	14354771	14361283	0.43	cps
Rhodium	103-2	5230031	5109576	5172446	5170684	1.17	cps
Scandium	45-1	10153439	10240020	10561443	10318301	2.08	cps
Scandium	45-2	179573	180373	182628	180858	0.88	cps
Selenium	82-1	127	163	50	113	51.03	cps
Selenium	77-2	0	0	7	2	173.21	cps
Selenium	78-2	3	20	3	9	108.30	cps
Silicon	28-1	175583057	175730604	175806004	175706555	0.06	cps
Silver	107-1	260	223	253	246	7.95	cps
Silver	109-1	127	140	190	152	21.93	cps
Sodium	23-2	42756474	42586843	42321127	42554815	0.52	cps
Strontium	86-1	464219	472571	473680	470157	1.10	cps
Strontium	88-1	4195789	4237475	4263257	4232174	0.80	cps
Sulfur	34-1	2599598	2636107	2619310	2618338	0.70	cps
Terbium	159-1	20967423	21015366	20579516	20854101	1.15	cps
Terbium	159-2	6127594	6025238	6052410	6068414	0.87	cps
Thallium	203-1	490	403	407	433	11.33	cps
Thallium	205-1	1257	1047	1163	1156	9.11	cps
Tin	118-1	3144	3374	3237	3252	3.56	cps
Titanium	47-1	3457	3410	3931	3600	8.00	cps
Uranium	238-1	650	597	577	608	6.24	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-12	Instrumnet Name :	P8
Client Sample ID :	MDCZL9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:32:55	DataFile Name :	053AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1583	1523	1480	1529	3.39	cps
Ytterbium	172-1	2320	2104	2234	2219	4.92	cps
Ytterbium	172-2	970	847	813	877	9.41	cps
Ytterbium	176-1	3154	3147	3134	3145	0.32	cps
Ytterbium	176-2	763	813	747	774	4.48	cps
Yttrium	89-1	26911973	27057661	26965278	26978304	0.27	cps
Yttrium	89-2	1667702	1658850	1684333	1670295	0.77	cps
Zinc	66-2	2240	2427	2490	2386	5.45	cps
Zirconium	90-1	1793	1753	1663	1737	3.83	cps
Zirconium	91-1	473	593	360	476	24.55	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2217	2134	2267	2206	3.05	cps
Antimony	121-1	410	390	427	409	4.49	cps
Arsenic	75-2	113	123	110	116	6.01	cps
Barium	135-1	348848	357929	355076	353951	1.31	cps
Barium	137-1	610598	625890	627476	621321	1.50	cps
Beryllium	9-1	2045	2134	2109	2096	2.18	cps
Bismuth	209-1	12808424	13102980	13133314	13014906	1.38	cps
Bismuth	209-2	4820991	4925127	4839481	4861866	1.14	cps
Bromine	81-1	126797	139815	146084	137565	7.15	cps
Cadmium	108-1	83	103	117	101	16.60	cps
Cadmium	106-1	8056	7492	7966	7838	3.86	cps
Cadmium	111-1	6457	6176	6468	6367	2.60	cps
Calcium	43-1	280142	288008	287608	285252	1.55	cps
Calcium	44-1	4703985	4794265	4748864	4749038	0.95	cps
Carbon	12-1	6902109	7692635	8210872	7601872	8.67	cps
Carbon	12-2	58462	59275	60962	59567	2.14	cps
Chlorine	35-1	2210277	2388528	2442865	2347224	5.18	cps
Chlorine	35-2	9430	9403	9230	9354	1.16	cps
Chromium	52-2	4081	4024	3927	4011	1.93	cps
Cobalt	59-2	22561	22658	22868	22696	0.69	cps
Copper	63-2	4357	4721	4771	4616	4.89	cps
Dysprosium	156-1	1440	1513	1590	1515	4.95	cps
Dysprosium	156-2	420	553	483	486	13.74	cps
Erbium	164-1	1373	1477	1430	1427	3.63	cps
Erbium	164-2	443	367	413	408	9.47	cps
Gadolinium	160-1	1520	1700	1690	1637	6.18	cps
Gadolinium	160-2	573	633	593	600	5.09	cps
Holmium	165-1	20247029	20797333	20800014	20614792	1.54	cps
Holmium	165-2	6550494	6543549	6619098	6571047	0.64	cps
Indium	115-1	15992487	16097787	16476108	16188794	1.57	cps
Indium	115-2	1364381	1370228	1367311	1367306	0.21	cps
Iron	54-2	28929	29373	29150	29151	0.76	cps
Iron	56-2	526890	532349	531741	530327	0.56	cps
Iron	57-2	13116	13316	13426	13286	1.18	cps
Krypton	83-1	260	193	247	233	15.12	cps
Lead	206-1	2684	2470	2484	2546	4.69	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2324	2120	2204	2216	4.61	cps
Lead	208-1	10358	10032	10088	10159	1.72	cps
Lithium	6-1	7429987	7527007	7622192	7526395	1.28	cps
Magnesium	24-2	382642	378919	384125	381895	0.70	cps
Manganese	55-2	277500	277482	277915	277632	0.09	cps
Molybdenum	94-1	747	707	727	727	2.75	cps
Molybdenum	95-1	507	530	517	518	2.26	cps
Molybdenum	96-1	660	543	587	597	9.88	cps
Molybdenum	97-1	357	260	307	308	15.71	cps
Molybdenum	98-1	757	787	767	770	1.98	cps
Neodymium	150-1	1380	1463	1467	1437	3.42	cps
Neodymium	150-2	337	357	333	342	3.69	cps
Nickel	60-2	16670	16540	16670	16626	0.45	cps
Phosphorus	31-2	110	147	140	132	14.77	cps
Potassium	39-2	108776	107077	107738	107864	0.79	cps
Rhodium	103-1	14825171	14846876	14875952	14849333	0.17	cps
Rhodium	103-2	5384650	5410642	5327031	5374108	0.80	cps
Scandium	45-1	10386739	10632206	10719431	10579459	1.63	cps
Scandium	45-2	188209	186524	187878	187537	0.48	cps
Selenium	82-1	60	117	120	99	34.10	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	10	10	0.00	cps
Silicon	28-1	132667135	134225338	135234911	134042461	0.97	cps
Silver	107-1	173	237	217	209	15.50	cps
Silver	109-1	120	153	100	124	21.65	cps
Sodium	23-2	12508254	12664564	12473069	12548629	0.81	cps
Strontium	86-1	314094	316433	320700	317075	1.06	cps
Strontium	88-1	2837532	2857508	2826936	2840659	0.55	cps
Sulfur	34-1	1342415	1321801	1322062	1328760	0.89	cps
Terbium	159-1	20894295	21106264	21358196	21119585	1.10	cps
Terbium	159-2	6292506	6363584	6282524	6312871	0.70	cps
Thallium	203-1	587	460	500	516	12.56	cps
Thallium	205-1	1213	1217	1220	1217	0.27	cps
Tin	118-1	4137	3931	3907	3992	3.17	cps
Titanium	47-1	2564	2564	2664	2597	2.22	cps
Uranium	238-1	993	1043	987	1008	3.07	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-13	Instrumnet Name :	P8
Client Sample ID :	MDCZN9	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:36:11	DataFile Name :	054AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	580	547	577	568	3.23	cps
Ytterbium	172-1	563	487	583	544	9.37	cps
Ytterbium	172-2	197	183	180	187	4.72	cps
Ytterbium	176-1	2150	2080	2294	2175	5.00	cps
Ytterbium	176-2	420	363	443	409	10.06	cps
Yttrium	89-1	27284744	27197970	27375105	27285940	0.32	cps
Yttrium	89-2	1715165	1716505	1691162	1707611	0.84	cps
Zinc	66-2	6832	6452	6522	6602	3.07	cps
Zirconium	90-1	1280	1103	1320	1235	9.34	cps
Zirconium	91-1	270	277	257	268	3.80	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	770	760	740	757	2.02	cps
Antimony	121-1	597	577	627	600	4.19	cps
Arsenic	75-2	97	87	150	111	30.64	cps
Barium	135-1	142049	144450	142150	142883	0.95	cps
Barium	137-1	249496	248095	246654	248082	0.57	cps
Beryllium	9-1	1002	949	1064	1005	5.73	cps
Bismuth	209-1	12851344	12967224	12925887	12914818	0.45	cps
Bismuth	209-2	4776582	4814526	4846892	4812667	0.73	cps
Bromine	81-1	338287	374501	402234	371674	8.63	cps
Cadmium	108-1	43	40	50	44	11.46	cps
Cadmium	106-1	7992	8276	7636	7968	4.03	cps
Cadmium	111-1	5608	5798	5347	5584	4.06	cps
Calcium	43-1	379515	381566	385089	382056	0.74	cps
Calcium	44-1	6407036	6410660	6419475	6412390	0.10	cps
Carbon	12-1	17496667	19392775	20139713	19009718	7.17	cps
Carbon	12-2	134835	138367	138956	137386	1.62	cps
Chlorine	35-1	1605662	1698096	1758929	1687563	4.57	cps
Chlorine	35-2	6592	6958	6915	6822	2.94	cps
Chromium	52-2	5735	6065	6141	5980	3.61	cps
Cobalt	59-2	5891	6365	6085	6114	3.89	cps
Copper	63-2	2844	3070	3010	2975	3.95	cps
Dysprosium	156-1	9550	9230	9640	9473	2.28	cps
Dysprosium	156-2	3137	3240	3070	3149	2.72	cps
Erbium	164-1	13267	13437	14091	13598	3.20	cps
Erbium	164-2	4271	4271	4284	4275	0.18	cps
Gadolinium	160-1	10064	10117	10214	10132	0.75	cps
Gadolinium	160-2	4054	3984	3994	4011	0.94	cps
Holmium	165-1	20582027	20736541	20705373	20674647	0.40	cps
Holmium	165-2	6572198	6675141	6688551	6645297	0.96	cps
Indium	115-1	15889331	15854417	15838616	15860788	0.16	cps
Indium	115-2	1336105	1387858	1406458	1376807	2.65	cps
Iron	54-2	262597	271965	270876	268479	1.91	cps
Iron	56-2	4829745	5033295	5110518	4991186	2.91	cps
Iron	57-2	119711	126451	124968	123710	2.86	cps
Krypton	83-1	300	287	307	298	3.42	cps
Lead	206-1	2330	2410	2577	2439	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 :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2074	2117	2194	2128	2.86	cps
Lead	208-1	9575	9792	10292	9886	3.72	cps
Lithium	6-1	7386584	7429173	7614043	7476600	1.62	cps
Magnesium	24-2	842673	869266	864444	858795	1.65	cps
Manganese	55-2	876237	918883	925889	907003	2.96	cps
Molybdenum	94-1	1433	1283	1420	1379	6.02	cps
Molybdenum	95-1	317	350	293	320	8.90	cps
Molybdenum	96-1	553	510	597	553	7.83	cps
Molybdenum	97-1	247	200	197	214	13.04	cps
Molybdenum	98-1	503	547	610	553	9.69	cps
Neodymium	150-1	9260	9500	9824	9528	2.97	cps
Neodymium	150-2	2277	2140	2067	2161	4.93	cps
Nickel	60-2	29851	30449	31017	30439	1.92	cps
Phosphorus	31-2	760	817	740	772	5.15	cps
Potassium	39-2	74588	78897	79487	77657	3.44	cps
Rhodium	103-1	14562503	14283656	14399071	14415077	0.97	cps
Rhodium	103-2	5189302	5337445	5437946	5321565	2.35	cps
Scandium	45-1	10647616	10552040	10690983	10630213	0.67	cps
Scandium	45-2	185706	190380	194083	190057	2.21	cps
Selenium	82-1	100	187	140	142	30.50	cps
Selenium	77-2	10	13	17	13	25.01	cps
Selenium	78-2	13	10	23	16	44.60	cps
Silicon	28-1	389404461	388909141	395615007	391309536	0.95	cps
Silver	107-1	223	220	210	218	3.19	cps
Silver	109-1	47	103	93	81	37.29	cps
Sodium	23-2	47011298	48787519	48221616	48006811	1.89	cps
Strontium	86-1	421305	421295	429744	424115	1.15	cps
Strontium	88-1	3836705	3905725	3882479	3874970	0.91	cps
Sulfur	34-1	2769681	2767499	2740546	2759242	0.59	cps
Terbium	159-1	21301369	20911594	20543759	20918907	1.81	cps
Terbium	159-2	6218307	6344314	6456031	6339551	1.88	cps
Thallium	203-1	357	387	447	397	11.55	cps
Thallium	205-1	913	910	1003	942	5.62	cps
Tin	118-1	3821	3524	3454	3599	5.41	cps
Titanium	47-1	5925	6145	6880	6317	7.92	cps
Uranium	238-1	307	387	417	370	15.37	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-14	Instrumnet Name :	P8
Client Sample ID :	MDCZN2	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:39:31	DataFile Name :	055AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4761	4944	4901	4869	1.97	cps
Ytterbium	172-1	25902	26079	25708	25897	0.72	cps
Ytterbium	172-2	9734	10151	9917	9934	2.10	cps
Ytterbium	176-1	17362	18530	18146	18012	3.31	cps
Ytterbium	176-2	6295	6675	6705	6558	3.49	cps
Yttrium	89-1	27527355	27817742	27517766	27620955	0.62	cps
Yttrium	89-2	1733150	1762745	1846241	1780712	3.29	cps
Zinc	66-2	1077	1090	1130	1099	2.53	cps
Zirconium	90-1	3474	3284	3220	3326	3.97	cps
Zirconium	91-1	757	613	650	673	11.06	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4757	4361	4387	4502	4.93	cps
Antimony	121-1	2960	2957	2724	2880	4.71	cps
Arsenic	75-2	897	757	820	824	8.50	cps
Barium	135-1	279535	282937	279960	280811	0.66	cps
Barium	137-1	486809	489067	491476	489117	0.48	cps
Beryllium	9-1	2394	2454	2457	2435	1.47	cps
Bismuth	209-1	13179205	13393159	13384384	13318916	0.91	cps
Bismuth	209-2	4872655	4870152	4960548	4901118	1.05	cps
Bromine	81-1	70529	65840	63228	66532	5.56	cps
Cadmium	108-1	67	63	77	69	10.08	cps
Cadmium	106-1	7999	8149	8086	8078	0.93	cps
Cadmium	111-1	6033	6133	6076	6081	0.83	cps
Calcium	43-1	1121838	1126232	1136663	1128244	0.67	cps
Calcium	44-1	18287460	18566396	18633658	18495838	0.99	cps
Carbon	12-1	10354250	11605824	12144479	11368185	8.08	cps
Carbon	12-2	83090	84222	84252	83855	0.79	cps
Chlorine	35-1	846882	872100	869342	862775	1.60	cps
Chlorine	35-2	3160	3340	3247	3249	2.77	cps
Chromium	52-2	3520	3567	3614	3567	1.31	cps
Cobalt	59-2	53921	53433	53353	53569	0.57	cps
Copper	63-2	12936	12702	12819	12819	0.91	cps
Dysprosium	156-1	16387	16517	16510	16471	0.44	cps
Dysprosium	156-2	5198	5221	5378	5266	1.86	cps
Erbium	164-1	14855	14858	14758	14824	0.38	cps
Erbium	164-2	4501	4648	4558	4569	1.62	cps
Gadolinium	160-1	16350	16660	16841	16617	1.49	cps
Gadolinium	160-2	6268	6455	6165	6296	2.34	cps
Holmium	165-1	21020150	20965235	20894269	20959885	0.30	cps
Holmium	165-2	6623457	6603766	6682012	6636412	0.61	cps
Indium	115-1	16887491	16711037	16416293	16671607	1.43	cps
Indium	115-2	1387436	1400221	1398808	1395488	0.50	cps
Iron	54-2	239565	238786	240349	239567	0.33	cps
Iron	56-2	4456867	4419808	4353005	4409893	1.19	cps
Iron	57-2	109207	108569	109013	108930	0.30	cps
Krypton	83-1	360	267	287	304	16.14	cps
Lead	206-1	9420	9544	9740	9568	1.69	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7889	7666	8103	7886	2.77	cps
Lead	208-1	36494	36367	37435	36765	1.59	cps
Lithium	6-1	7660441	7497053	7634284	7597259	1.16	cps
Magnesium	24-2	477194	473916	473435	474848	0.43	cps
Manganese	55-2	666538	663451	660835	663608	0.43	cps
Molybdenum	94-1	6258	6548	6378	6395	2.28	cps
Molybdenum	95-1	8766	8476	8676	8639	1.72	cps
Molybdenum	96-1	9377	9233	9693	9434	2.50	cps
Molybdenum	97-1	5238	5484	5424	5382	2.39	cps
Molybdenum	98-1	13296	13874	13874	13681	2.44	cps
Neodymium	150-1	23965	23871	25264	24367	3.19	cps
Neodymium	150-2	5174	5358	4904	5145	4.43	cps
Nickel	60-2	8699	8789	8576	8688	1.23	cps
Phosphorus	31-2	317	253	270	280	11.72	cps
Potassium	39-2	136929	136660	135899	136496	0.39	cps
Rhodium	103-1	15302278	15219241	14991523	15171014	1.06	cps
Rhodium	103-2	5518670	5413495	5571300	5501155	1.46	cps
Scandium	45-1	11021543	10919047	10927791	10956127	0.52	cps
Scandium	45-2	190614	192065	191475	191384	0.38	cps
Selenium	82-1	80	153	157	130	33.34	cps
Selenium	77-2	10	23	17	17	39.99	cps
Selenium	78-2	23	33	17	24	34.31	cps
Silicon	28-1	127446861	129092928	130471571	129003787	1.17	cps
Silver	107-1	260	300	283	281	7.15	cps
Silver	109-1	163	143	147	151	7.09	cps
Sodium	23-2	5624820	5656419	5672738	5651326	0.43	cps
Strontium	86-1	439440	443489	439500	440810	0.53	cps
Strontium	88-1	3965183	3950481	3992784	3969483	0.54	cps
Sulfur	34-1	1305575	1311450	1316755	1311260	0.43	cps
Terbium	159-1	21747174	21310091	21172701	21409988	1.40	cps
Terbium	159-2	6390154	6438859	6436323	6421779	0.43	cps
Thallium	203-1	930	850	937	906	5.33	cps
Thallium	205-1	1940	2014	1994	1982	1.91	cps
Tin	118-1	4027	3961	4057	4015	1.23	cps
Titanium	47-1	3807	4579	4304	4230	9.25	cps
Uranium	238-1	9280	9911	9714	9635	3.35	cps

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Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-15	Instrumnet Name :	P8
Client Sample ID :	MDCZN7	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:42:47	DataFile Name :	056AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5971	5778	5951	5900	1.80	cps
Ytterbium	172-1	4164	4317	4447	4310	3.29	cps
Ytterbium	172-2	1650	1737	1697	1695	2.56	cps
Ytterbium	176-1	4554	4621	4718	4631	1.77	cps
Ytterbium	176-2	1327	1250	1203	1260	4.94	cps
Yttrium	89-1	28446183	28312043	27983644	28247290	0.84	cps
Yttrium	89-2	1757936	1791617	1795673	1781742	1.16	cps
Zinc	66-2	13533	12959	12619	13037	3.54	cps
Zirconium	90-1	3944	6011	4154	4703	24.18	cps
Zirconium	91-1	870	890	960	907	5.21	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3050	3240	2947	3079	4.83	cps
Antimony	121-1	227	253	253	244	6.30	cps
Arsenic	75-2	1103	1147	1210	1153	4.65	cps
Barium	135-1	208178	208313	206884	207792	0.38	cps
Barium	137-1	359207	363956	363187	362117	0.70	cps
Beryllium	9-1	426	416	362	402	8.54	cps
Bismuth	209-1	13089866	13130675	13129072	13116538	0.18	cps
Bismuth	209-2	4819020	4867372	4801142	4829178	0.71	cps
Bromine	81-1	93990	107253	116401	105881	10.64	cps
Cadmium	108-1	33	73	50	52	38.48	cps
Cadmium	106-1	7956	8116	7939	8004	1.22	cps
Cadmium	111-1	5682	5710	5646	5679	0.57	cps
Calcium	43-1	544858	545981	550198	547012	0.51	cps
Calcium	44-1	9063563	8910548	9121897	9032002	1.21	cps
Carbon	12-1	8343832	9122382	9431978	8966064	6.25	cps
Carbon	12-2	65378	65298	65050	65242	0.26	cps
Chlorine	35-1	2159847	2462337	2584687	2402290	9.10	cps
Chlorine	35-2	9727	10160	10150	10012	2.47	cps
Chromium	52-2	1337	1423	1343	1368	3.53	cps
Cobalt	59-2	15552	14895	15402	15283	2.25	cps
Copper	63-2	3107	2890	3037	3011	3.67	cps
Dysprosium	156-1	837	917	880	878	4.56	cps
Dysprosium	156-2	140	190	197	176	17.64	cps
Erbium	164-1	540	453	427	473	12.52	cps
Erbium	164-2	187	157	143	162	13.68	cps
Gadolinium	160-1	587	653	637	626	5.55	cps
Gadolinium	160-2	183	253	133	190	31.72	cps
Holmium	165-1	20782070	20303376	20975521	20686989	1.67	cps
Holmium	165-2	6570148	6611968	6544528	6575548	0.52	cps
Indium	115-1	16099729	16251919	16283963	16211871	0.61	cps
Indium	115-2	1364289	1373116	1355405	1364270	0.65	cps
Iron	54-2	789040	796287	788007	791111	0.57	cps
Iron	56-2	14773784	14848904	14699333	14774007	0.51	cps
Iron	57-2	361852	363882	360067	361933	0.53	cps
Krypton	83-1	357	247	283	296	18.95	cps
Lead	206-1	4504	4874	4851	4743	4.37	cps

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4131	3714	4057	3967	5.61	cps
Lead	208-1	18475	18502	18722	18566	0.73	cps
Lithium	6-1	7514769	7599551	7530909	7548410	0.60	cps
Magnesium	24-2	498381	501669	498122	499391	0.40	cps
Manganese	55-2	213722	216105	214940	214922	0.55	cps
Molybdenum	94-1	1550	1387	1380	1439	6.69	cps
Molybdenum	95-1	1000	1033	990	1008	2.25	cps
Molybdenum	96-1	1143	1267	1297	1236	6.58	cps
Molybdenum	97-1	570	620	607	599	4.32	cps
Molybdenum	98-1	1583	1607	1600	1597	0.75	cps
Neodymium	150-1	813	720	873	802	9.63	cps
Neodymium	150-2	143	200	177	173	16.43	cps
Nickel	60-2	8012	8189	7899	8033	1.82	cps
Phosphorus	31-2	497	543	567	536	6.66	cps
Potassium	39-2	85770	87453	85702	86308	1.15	cps
Rhodium	103-1	14703708	14919973	14988794	14870825	1.00	cps
Rhodium	103-2	5412620	5406617	5337060	5385432	0.78	cps
Scandium	45-1	10765900	10686127	10907890	10786639	1.04	cps
Scandium	45-2	186804	189096	186355	187418	0.78	cps
Selenium	82-1	-13	70	-23	11	461.08	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	7	7	7	0.00	cps
Silicon	28-1	118468855	119356858	118503515	118776409	0.42	cps
Silver	107-1	223	233	257	238	7.19	cps
Silver	109-1	63	63	97	74	25.86	cps
Sodium	23-2	12473601	12463498	12410352	12449151	0.27	cps
Strontium	86-1	377871	378670	379201	378580	0.18	cps
Strontium	88-1	3443678	3501751	3461633	3469021	0.86	cps
Sulfur	34-1	1256499	1253601	1280219	1263440	1.16	cps
Terbium	159-1	20456468	21202728	21029454	20896217	1.87	cps
Terbium	159-2	6217486	6309806	6204074	6243788	0.92	cps
Thallium	203-1	523	470	517	503	5.77	cps
Thallium	205-1	1260	1197	1210	1222	2.73	cps
Tin	118-1	4557	4864	4764	4729	3.31	cps
Titanium	47-1	5125	6086	6028	5746	9.37	cps
Uranium	238-1	270	280	267	272	2.55	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	Q1255-16	Instrumnet Name :	P8
Client Sample ID :	MDCZP4	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:46:06	DataFile Name :	057AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	283	283	383	317	18.23	cps
Ytterbium	172-1	287	287	320	298	6.46	cps
Ytterbium	172-2	60	100	103	88	27.47	cps
Ytterbium	176-1	2137	2177	2164	2159	0.94	cps
Ytterbium	176-2	343	293	290	309	9.67	cps
Yttrium	89-1	27741017	27909582	28169132	27939910	0.77	cps
Yttrium	89-2	1717138	1750030	1678965	1715378	2.07	cps
Zinc	66-2	3967	4161	4074	4067	2.38	cps
Zirconium	90-1	2564	3181	3638	3127	17.23	cps
Zirconium	91-1	573	527	887	662	29.57	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3113594	3028922	3059334	3067283	1.40	cps
Antimony	121-1	8126368	8271996	8209409	8202591	0.89	cps
Arsenic	75-2	143465	141488	142239	142397	0.70	cps
Barium	135-1	9986350	10154290	10109347	10083329	0.86	cps
Barium	137-1	17427925	17352114	17386467	17388835	0.22	cps
Beryllium	9-1	2562722	2654214	2646973	2621303	1.94	cps
Bismuth	209-1	11800860	11702961	11699384	11734402	0.49	cps
Bismuth	209-2	4510202	4278219	4357656	4382025	2.69	cps
Bromine	81-1	25219	23373	22468	23687	5.92	cps
Cadmium	108-1	160367	158789	159292	159483	0.51	cps
Cadmium	106-1	232246	231483	230733	231487	0.33	cps
Cadmium	111-1	1955611	1996546	2013599	1988585	1.50	cps
Calcium	43-1	12772862	12709320	12761114	12747765	0.27	cps
Calcium	44-1	206444857	204713837	205480610	205546435	0.42	cps
Carbon	12-1	5150344	5063958	5147081	5120461	0.96	cps
Carbon	12-2	38146	37915	37371	37811	1.05	cps
Chlorine	35-1	512623	490439	471749	491604	4.16	cps
Chlorine	35-2	1600	1693	1497	1597	6.16	cps
Chromium	52-2	1626906	1649364	1615159	1630476	1.07	cps
Cobalt	59-2	2995969	3066238	3045243	3035816	1.19	cps
Copper	63-2	22690656	22577505	22453513	22573891	0.53	cps
Dysprosium	156-1	607	660	597	621	5.48	cps
Dysprosium	156-2	97	153	90	113	30.71	cps
Erbium	164-1	450	453	493	466	5.18	cps
Erbium	164-2	160	150	143	151	5.55	cps
Gadolinium	160-1	390	490	327	402	20.47	cps
Gadolinium	160-2	177	137	157	157	12.77	cps
Holmium	165-1	20350265	19996589	19996516	20114457	1.02	cps
Holmium	165-2	6610933	6301091	6307426	6406484	2.76	cps
Indium	115-1	15127684	14801375	14887989	14939016	1.13	cps
Indium	115-2	1298987	1253890	1257069	1269982	1.98	cps
Iron	54-2	15754452	15928236	15888380	15857023	0.57	cps
Iron	56-2	289415209	291749389	287160416	289441671	0.79	cps
Iron	57-2	7284942	7307536	7339319	7310599	0.37	cps
Krypton	83-1	340	310	273	308	10.85	cps
Lead	206-1	33018840	32570361	32892126	32827109	0.70	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28071650	27953171	28048230	28024350	0.22	cps
Lead	208-1	130290640	129353343	129556081	129733355	0.38	cps
Lithium	6-1	7206794	7124099	7117150	7149348	0.70	cps
Magnesium	24-2	55863364	55133816	55045581	55347587	0.81	cps
Manganese	55-2	6419494	6527447	6374878	6440606	1.22	cps
Molybdenum	94-1	27964462	28550885	28648700	28388016	1.30	cps
Molybdenum	95-1	41380048	41388469	41907854	41558790	0.73	cps
Molybdenum	96-1	45602524	45110618	45305724	45339622	0.55	cps
Molybdenum	97-1	25494850	25642467	25489325	25542214	0.34	cps
Molybdenum	98-1	66384232	67702166	67197089	67094496	0.99	cps
Neodymium	150-1	760	800	807	789	3.20	cps
Neodymium	150-2	53	57	40	50	17.64	cps
Nickel	60-2	780027	788332	780749	783036	0.59	cps
Phosphorus	31-2	28982	29169	28896	29016	0.48	cps
Potassium	39-2	15019870	14781230	14819629	14873576	0.86	cps
Rhodium	103-1	13443987	13260186	13317606	13340593	0.70	cps
Rhodium	103-2	4973177	4840768	4763931	4859292	2.18	cps
Scandium	45-1	10457740	10348635	10387567	10397981	0.53	cps
Scandium	45-2	189762	184800	185048	186537	1.50	cps
Selenium	82-1	116810	116931	117896	117213	0.51	cps
Selenium	77-2	1587	1757	1833	1726	7.32	cps
Selenium	78-2	5921	5761	5865	5849	1.39	cps
Silicon	28-1	6990013	6956278	6893828	6946706	0.70	cps
Silver	107-1	9941639	9779513	9656521	9792558	1.46	cps
Silver	109-1	9282300	9211741	9337072	9277038	0.68	cps
Sodium	23-2	112097235	111557825	110069568	111241543	0.94	cps
Strontium	86-1	2662614	2708236	2658180	2676343	1.04	cps
Strontium	88-1	23212787	23163241	23137610	23171213	0.16	cps
Sulfur	34-1	1452595	1437950	1433068	1441204	0.71	cps
Terbium	159-1	20478971	20368001	20110737	20319236	0.93	cps
Terbium	159-2	6194730	5963211	6000438	6052793	2.05	cps
Thallium	203-1	8132514	8027670	8078157	8079447	0.65	cps
Thallium	205-1	19170322	19257806	18994439	19140855	0.70	cps
Tin	118-1	6551491	6574687	6471629	6532602	0.83	cps
Titanium	47-1	12366779	12101791	12211920	12226830	1.09	cps
Uranium	238-1	26139847	25969045	25812584	25973825	0.63	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCV024	Instrumnet Name :	P8
Client Sample ID :	CCV024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:49:22	DataFile Name :	058CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1225602	1237767	1237772	1233714	0.57	cps
Ytterbium	172-1	487	417	507	470	10.05	cps
Ytterbium	172-2	173	187	177	179	3.88	cps
Ytterbium	176-1	40742	41455	41164	41120	0.87	cps
Ytterbium	176-2	12599	12846	12509	12652	1.38	cps
Yttrium	89-1	26462360	26582375	26540582	26528439	0.23	cps
Yttrium	89-2	1722412	1681623	1670032	1691356	1.63	cps
Zinc	66-2	2410860	2454723	2472592	2446058	1.30	cps
Zirconium	90-1	14191819	14557134	14413658	14387537	1.28	cps
Zirconium	91-1	3249040	3251802	3275344	3258729	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 :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	120	123	127	123	2.70	cps
Antimony	121-1	1827	1723	1787	1779	2.93	cps
Arsenic	75-2	10	3	10	8	49.52	cps
Barium	135-1	680	720	533	644	15.25	cps
Barium	137-1	1073	1117	993	1061	5.90	cps
Beryllium	9-1	1006	927	840	925	8.99	cps
Bismuth	209-1	13471377	13319946	13135425	13308916	1.26	cps
Bismuth	209-2	4669076	4973341	4459189	4700535	5.50	cps
Bromine	81-1	12125	11632	11215	11657	3.91	cps
Cadmium	108-1	50	17	37	34	48.70	cps
Cadmium	106-1	8006	7626	8022	7885	2.85	cps
Cadmium	111-1	5706	5436	5690	5611	2.70	cps
Calcium	43-1	857	757	670	761	12.27	cps
Calcium	44-1	29864	28939	28582	29128	2.27	cps
Carbon	12-1	3902411	3893466	3892599	3896159	0.14	cps
Carbon	12-2	26037	25365	25218	25540	1.71	cps
Chlorine	35-1	315375	308477	304232	309361	1.82	cps
Chlorine	35-2	1040	1113	1030	1061	4.29	cps
Chromium	52-2	860	953	963	926	6.16	cps
Cobalt	59-2	210	233	210	218	6.19	cps
Copper	63-2	2657	3020	2870	2849	6.41	cps
Dysprosium	156-1	83	103	113	100	15.28	cps
Dysprosium	156-2	3	3	3	3	0.00	cps
Erbium	164-1	140	110	77	109	29.09	cps
Erbium	164-2	20	30	30	27	21.65	cps
Gadolinium	160-1	130	110	110	117	9.90	cps
Gadolinium	160-2	7	13	20	13	49.99	cps
Holmium	165-1	20924021	20842769	20618483	20795091	0.76	cps
Holmium	165-2	6377969	6673257	5969784	6340337	5.57	cps
Indium	115-1	16475365	16920879	16450656	16615633	1.59	cps
Indium	115-2	1328270	1445178	1252417	1341955	7.24	cps
Iron	54-2	727	750	790	756	4.24	cps
Iron	56-2	12869	12719	12542	12710	1.29	cps
Iron	57-2	310	277	317	301	7.12	cps
Krypton	83-1	323	313	227	288	18.47	cps
Lead	206-1	4241	4134	3817	4064	5.42	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3721	3177	3027	3308	11.03	cps
Lead	208-1	16498	15501	14387	15462	6.83	cps
Lithium	6-1	7858541	7866230	7799832	7841534	0.46	cps
Magnesium	24-2	3350	3514	3494	3453	2.58	cps
Manganese	55-2	427	373	420	407	7.15	cps
Molybdenum	94-1	1573	1243	1160	1326	16.49	cps
Molybdenum	95-1	1707	1280	1130	1372	21.80	cps
Molybdenum	96-1	1810	1677	1393	1627	13.08	cps
Molybdenum	97-1	973	903	820	899	8.54	cps
Molybdenum	98-1	2817	2257	1917	2330	19.51	cps
Neodymium	150-1	37	17	20	24	43.83	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	933	967	1040	980	5.57	cps
Phosphorus	31-2	47	80	63	63	26.31	cps
Potassium	39-2	10981	11351	10984	11105	1.92	cps
Rhodium	103-1	15339208	15386479	15209908	15311865	0.60	cps
Rhodium	103-2	5340176	5593336	4958125	5297212	6.04	cps
Scandium	45-1	10980084	10889757	10701860	10857234	1.31	cps
Scandium	45-2	182943	191088	170119	181383	5.83	cps
Selenium	82-1	-73	0	50	-8	-797.39	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	7	17	14	48.02	cps
Silicon	28-1	565911	574406	553172	564496	1.89	cps
Silver	107-1	990	903	817	903	9.59	cps
Silver	109-1	843	843	633	773	15.68	cps
Sodium	23-2	81958	81827	81295	81693	0.43	cps
Strontium	86-1	557	743	580	627	16.23	cps
Strontium	88-1	2027	1980	1653	1887	10.78	cps
Sulfur	34-1	738385	732813	733659	734952	0.41	cps
Terbium	159-1	21240661	21052846	21426791	21240099	0.88	cps
Terbium	159-2	6020584	6350992	5739848	6037142	5.07	cps
Thallium	203-1	933	727	780	813	13.19	cps
Thallium	205-1	1997	1880	1780	1886	5.75	cps
Tin	118-1	3490	3594	3561	3548	1.49	cps
Titanium	47-1	903	907	823	878	5.37	cps
Uranium	238-1	753	580	487	607	22.31	cps

Reviewed By:Mohan
On:2/12/2025 11:10:40 AM
Inst Id :P8

LB Number :	LB134674	Operator :	Jaswal
Lab Sample ID :	CCB024	Instrumnet Name :	P8
Client Sample ID :	CCB024	Dilution Factor :	1
Date & Time Acquired :	2025-02-11 16:52:57	DataFile Name :	059CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	30	33	28	24.98	cps
Ytterbium	172-1	140	107	143	130	15.60	cps
Ytterbium	172-2	37	57	33	42	29.89	cps
Ytterbium	176-1	1977	1907	1690	1858	8.05	cps
Ytterbium	176-2	240	227	250	239	4.90	cps
Yttrium	89-1	27814964	27928578	27994695	27912746	0.33	cps
Yttrium	89-2	1674491	1757563	1588162	1673405	5.06	cps
Zinc	66-2	297	290	310	299	3.41	cps
Zirconium	90-1	1477	1450	1390	1439	3.09	cps
Zirconium	91-1	293	260	343	299	14.03	cps

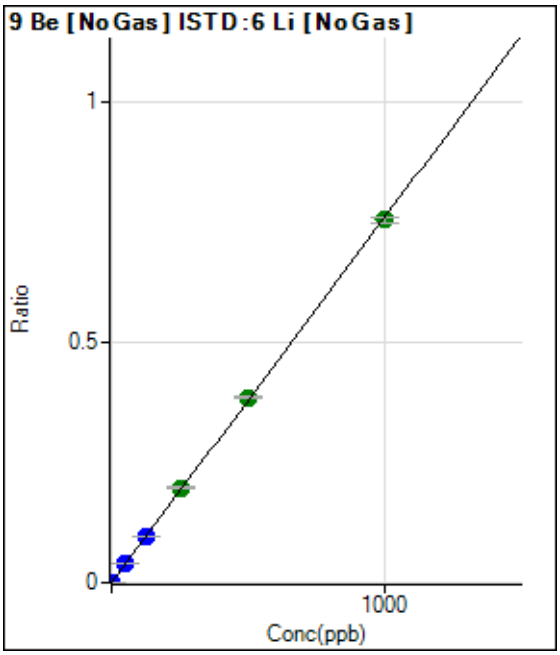
Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021325MS.b\
Analysis File: P8021325MS.batch.bin
DA Date-Time: 2025-02-13 15:32:18
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-02-13 11:45:07
2	005CALS.d	S02	2025-02-13 11:48:29
3	006CALB.d	S03	2025-02-13 11:51:52
4	007CALS.d	S04	2025-02-13 11:54:56
5	008CALS.d	S05	2025-02-13 11:57:55
6	009CALS.d	S06	2025-02-13 12:00:43
7	010CALS.d	S07	2025-02-13 12:03:30
8	011CALS.d	S08	2025-02-13 12:06:15

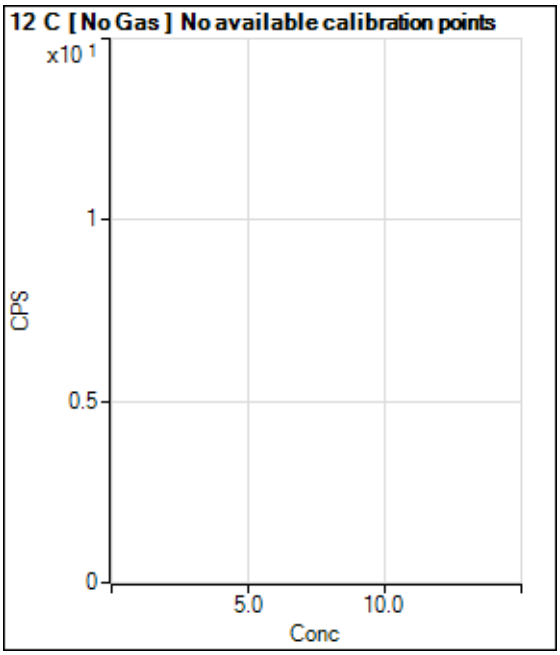
Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	467.87	0.0001	P	10.1
2	☐	1.000	1.083	7495.98	0.0009	P	1.9
3	☐	50.000	52.166	340332.13	0.0397	P	1.2
4	☐	125.000	125.533	825399.27	0.0955	P	0.3
5	☐	250.000	258.680	1700586.97	0.1967	A	2.0
6	☐	500.000	507.491	3280808.81	0.3859	A	0.5
7	☐	1000.000	993.909	6411033.53	0.7557	A	1.9
8	☐			2299.07	0.0003	P	9.7

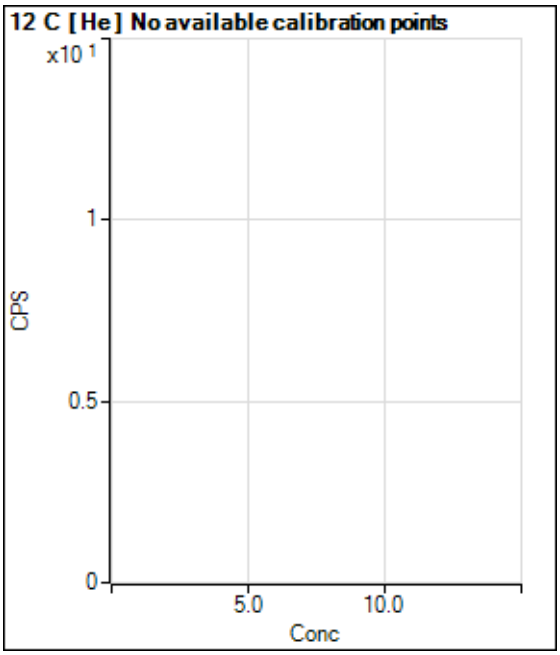
y = 7.6031E-004 * x + 5.5312E-005
R = 0.9999
DL = 0.022
BEC = 0.07275

Weight: <None>
Min Conc: 0

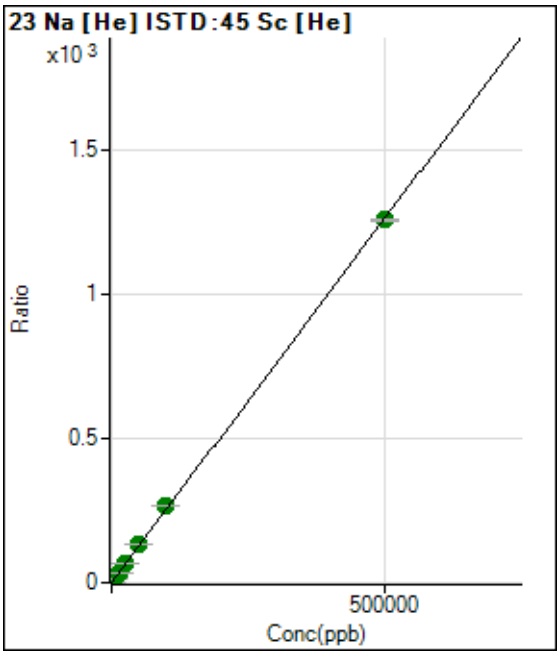


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4258293.24		A	7.2
2	☐			4316811.18		A	6.2
3	☐			4431942.05		A	4.7
4	☐			4764631.52		A	3.1
5	☐			5086718.67		A	3.0
6	☐			5660189.57		A	1.4
7	☐			6557476.50		A	1.3
8	☐			5885192.62		A	0.8

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25377.55		P	1.7
2	☐			25886.17		P	1.0
3	☐			26734.39		P	0.9
4	☐			29802.40		P	0.6
5	☐			32246.46		P	1.3
6	☐			36435.00		P	0.7
7	☐			45224.86		P	0.6
8	☐			49907.70		P	1.0

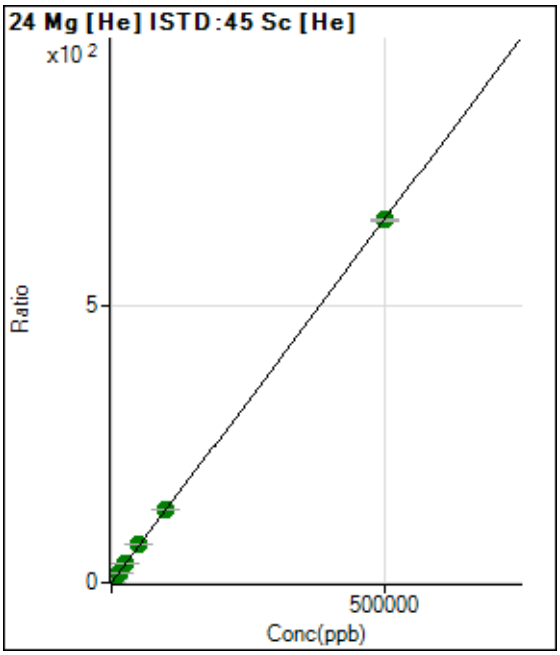


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43774.25	0.2272	P	0.9
2	☐	500.000	553.704	314158.15	1.6251	P	1.2
3	☐	5000.000	5677.015	2843880.89	14.5600	A	0.7
4	☐	12500.000	13666.469	6774806.50	34.7311	A	1.5
5	☐	25000.000	27323.974	13738882.85	69.2124	A	0.9
6	☐	50000.000	53298.913	26845444.60	134.7916	A	0.5
7	☐	100000.00	104788.99	53571101.98	264.7893	A	0.7
8	☐	500000.00	498560.12	243384963.0	1,258.948	A	0.8

y = 0.0025 * x + 0.2272
R = 0.9999
DL = 2.364
BEC = 89.97

Weight: <None>
Min Conc: 0

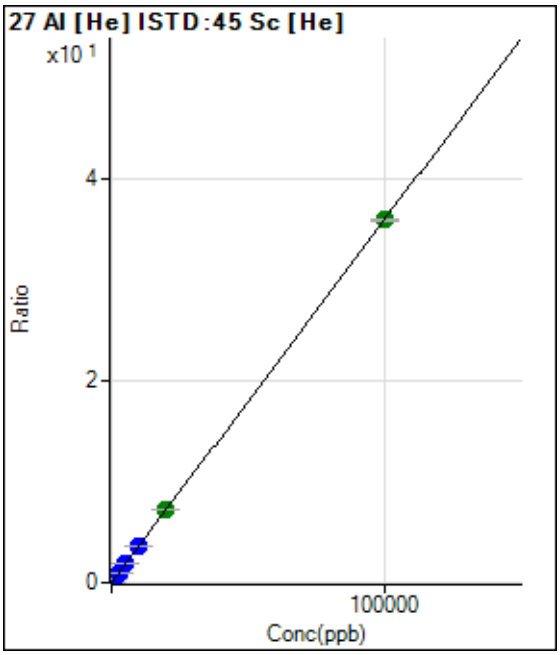
Reviewed By:kareem
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Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5233.22	0.0272	P	0.7
2	☐	500.000	547.024	144109.75	0.7455	P	1.6
3	☐	5000.000	5595.979	1440571.61	7.3756	A	1.1
4	☐	12500.000	13513.818	3466972.17	17.7729	A	1.0
5	☐	25000.000	26466.717	6904211.49	34.7822	A	2.0
6	☐	50000.000	51938.464	13588428.83	68.2306	A	0.3
7	☐	100000.00	101539.07	26983536.82	133.3641	A	0.6
8	☐	500000.00	499393.65	126788454.7	655.8103	A	0.4

y = 0.0013 * x + 0.0272
R = 1.0000
DL = 0.437
BEC = 20.68

Weight: <None>
Min Conc: 0

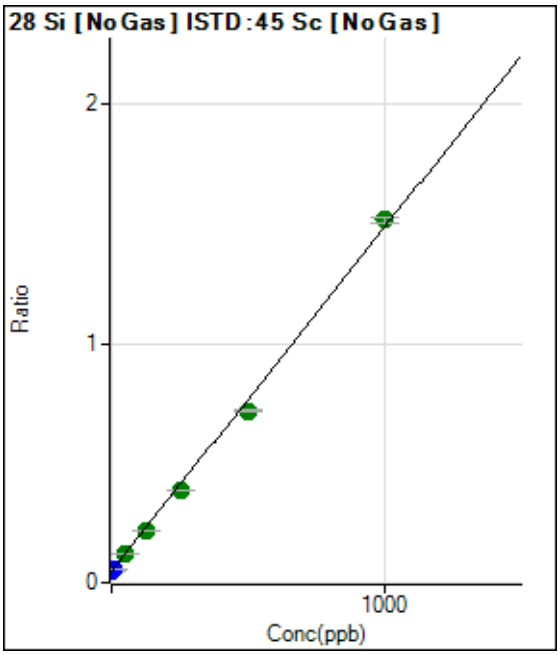


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0004	P	35.5
2	☐	20.000	21.840	1588.99	0.0082	P	7.3
3	☐	1000.000	1043.991	73399.42	0.3758	P	1.3
4	☐	2500.000	2558.257	179521.69	0.9204	P	2.0
5	☐	5000.000	5057.295	361092.74	1.8191	P	0.9
6	☐	10000.000	9833.030	704306.93	3.5365	P	0.5
7	☐	20000.000	20203.969	1470049.32	7.2661	A	0.9
8	☐	100000.00	99971.142	6950438.51	35.9520	A	0.7

y = 3.5962E-004 * x + 3.6927E-004
R = 1.0000
DL = 1.092
BEC = 1.027

Weight: <None>
Min Conc: 0

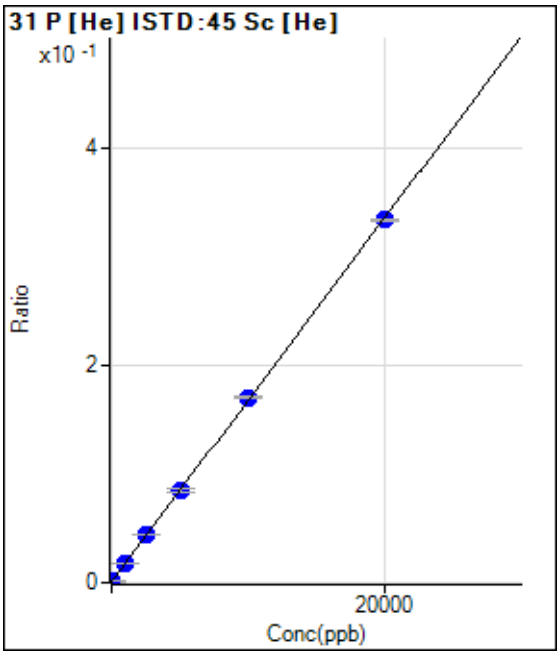
Reviewed By:kareem
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Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	540549.12	0.0491	P	0.7
2	☐	10.000	4.837	623218.36	0.0560	P	1.3
3	☐	50.000	47.615	1318389.43	0.1175	A	1.4
4	☐	125.000	118.299	2472493.09	0.2190	A	0.8
5	☐	250.000	234.092	4358986.15	0.3853	A	1.0
6	☐	500.000	466.382	8055985.78	0.7190	A	1.1
7	☐	1000.000	1021.795	17257298.08	1.5168	A	1.9
8	☐			742583.48	0.0708	P	2.2

y = 0.0014 * x + 0.0491
R = 0.9991
DL = 0.7419
BEC = 34.17

Weight: <None>
Min Conc: 0

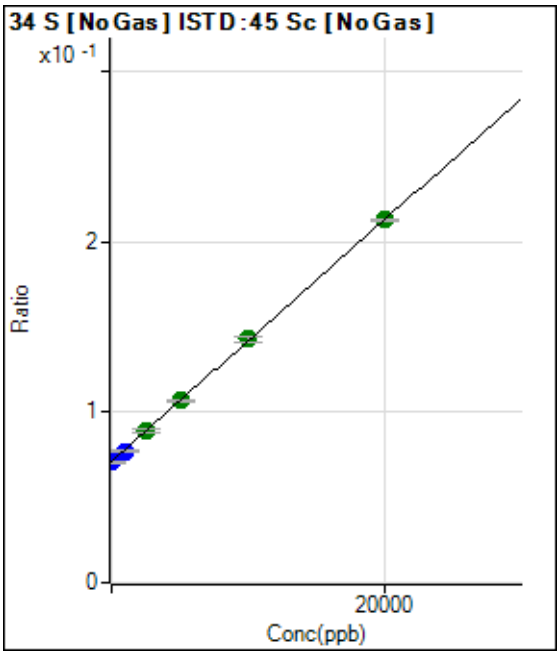


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.419	108.89	0.0006	P	12.6
2	☐	0.000	11.419	183.34	0.0009	P	10.2
3	☐	1000.000	1031.081	3521.57	0.0180	P	1.2
4	☐	2500.000	2588.002	8607.06	0.0441	P	2.4
5	☐	5000.000	5029.899	16876.62	0.0850	P	2.8
6	☐	10000.000	10139.780	33978.65	0.1706	P	1.5
7	☐	20000.000	19910.081	67638.80	0.3343	P	0.8
8	☐			113.33	0.0006	P	2.8

y = 1.6753E-005 * x + 7.5646E-004
R = 1.0000
DL = 15
BEC = 45.15

Weight: <None>
Min Conc: 0

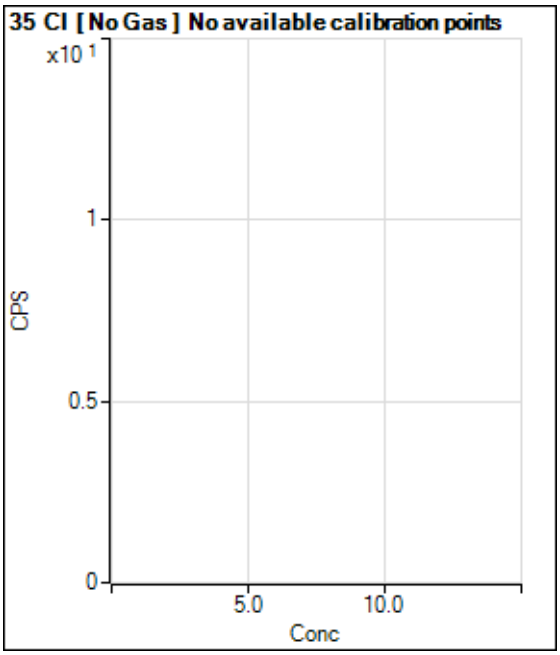
Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	89.125	791648.30	0.0719	P	0.9
2	☐	0.000	-89.125	785479.09	0.0706	P	0.9
3	☐	1000.000	852.737	867563.30	0.0773	P	0.3
4	☐	2500.000	2505.892	1004948.64	0.0890	A	2.4
5	☐	5000.000	4997.646	1207108.60	0.1067	A	1.2
6	☐	10000.000	10079.878	1599414.75	0.1428	A	1.9
7	☐	20000.000	19967.276	2422473.92	0.2129	A	0.3
8	☐			700195.55	0.0668	P	1.2

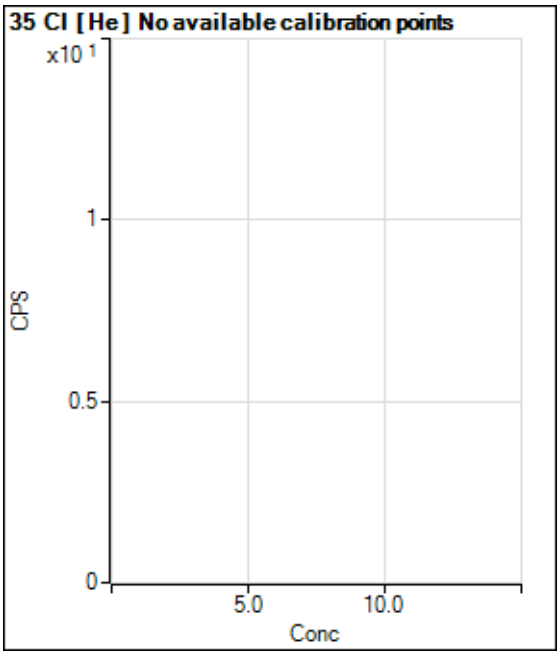
y = 7.0947E-006 * x + 0.0712
R = 0.9999
DL = 281
BEC = 1.004E+04

Weight: <None>
Min Conc: 0

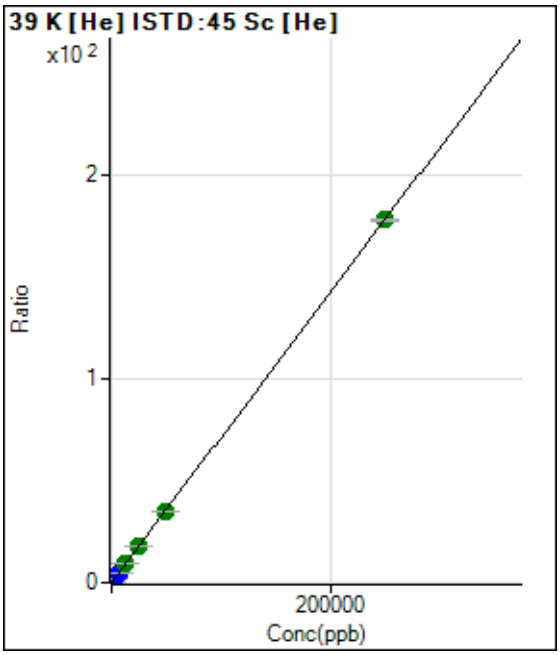


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			141635.75		P	1.2
2	☐			139963.95		P	0.3
3	☐			138255.65		P	0.5
4	☐			142829.50		P	0.4
5	☐			146119.46		P	0.6
6	☐			158251.75		P	0.6
7	☐			185136.81		P	1.5
8	☐			132023.12		P	2.2

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			478.90		P	3.4
2	☐			453.35		P	4.8
3	☐			468.90		P	14.7
4	☐			440.01		P	6.5
5	☐			550.02		P	12.6
6	☐			543.35		P	9.6
7	☐			685.58		P	12.2
8	☐			442.24		P	5.3

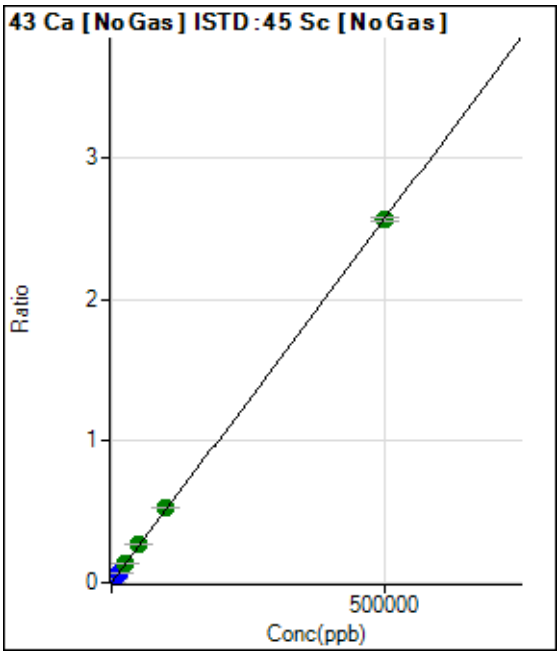


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8861.69	0.0460	P	1.1
2	☐	500.000	504.118	78011.65	0.4035	P	0.8
3	☐	2500.000	2497.318	354922.69	1.8172	P	0.3
4	☐	6250.000	6117.055	855242.55	4.3844	P	1.3
5	☐	12500.000	12739.500	1802749.59	9.0812	A	1.7
6	☐	25000.000	24654.945	3491372.83	17.5320	A	1.4
7	☐	50000.000	48564.121	6977995.52	34.4891	A	0.2
8	☐	250000.00	250313.04	34330501.44	177.5755	A	0.4

y = 7.0923E-004 * x + 0.0460
R = 1.0000
DL = 2.064
BEC = 64.84

Weight: <None>
Min Conc: 0

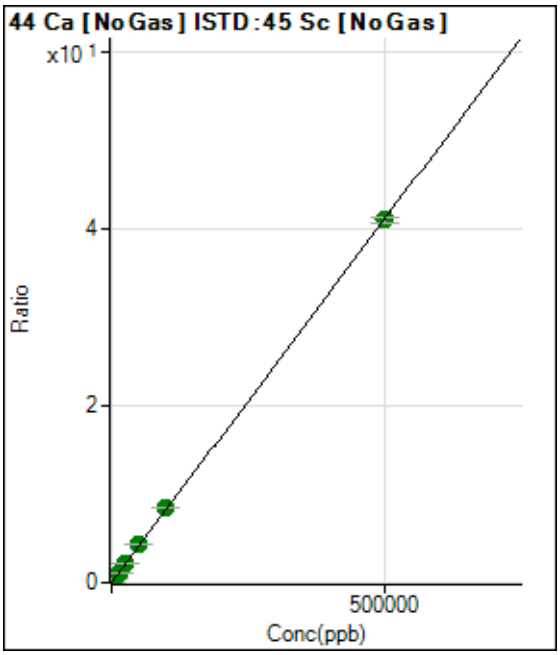
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	540.02	0.0000	P	7.7
2	☐	500.000	541.453	31477.75	0.0028	P	1.0
3	☐	5000.000	5276.266	304669.13	0.0271	P	1.3
4	☐	12500.000	12858.600	746090.15	0.0661	P	1.1
5	☐	25000.000	26807.410	1558085.64	0.1377	A	0.9
6	☐	50000.000	52345.357	3012906.28	0.2689	A	0.3
7	☐	100000.00	103662.18	6057967.69	0.5325	A	0.9
8	☐	500000.00	498930.88	26860437.10	2.5626	A	1.1

y = 5.1360E-006 * x + 4.9007E-005
R = 1.0000
DL = 2.217
BEC = 9.542

Weight: <None>
Min Conc: 0

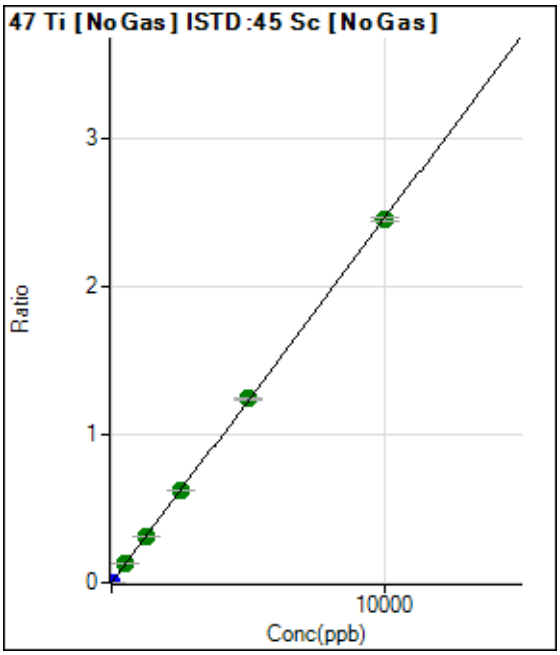


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27309.31	0.0025	P	0.2
2	☐	500.000	545.654	527188.03	0.0474	P	0.1
3	☐	5000.000	5410.040	5025721.70	0.4478	A	0.6
4	☐	12500.000	13170.686	12266574.40	1.0866	A	1.2
5	☐	25000.000	26344.589	24558607.69	2.1710	A	0.7
6	☐	50000.000	51873.319	47870903.17	4.2724	A	0.8
7	☐	100000.00	102965.51	96456457.45	8.4779	A	1.2
8	☐	500000.00	499131.42	430653242.4	41.0878	A	1.9

y = 8.2314E-005 * x + 0.0025
R = 1.0000
DL = 0.219
BEC = 30.12

Weight: <None>
Min Conc: 0

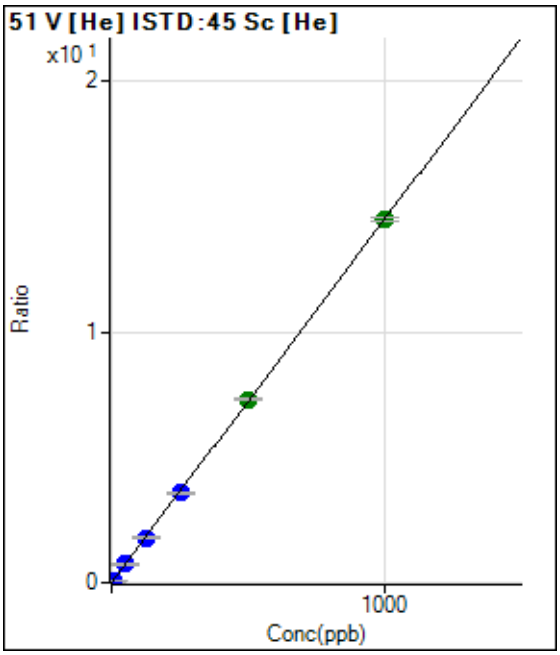
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0000	P	9.8
2	☐	5.000	5.122	14274.99	0.0013	P	0.7
3	☐	500.000	522.248	1439492.91	0.1283	A	1.6
4	☐	1250.000	1265.233	3507383.04	0.3107	A	1.5
5	☐	2500.000	2517.858	6994198.44	0.6183	A	0.5
6	☐	5000.000	5064.942	13934860.49	1.2437	A	1.0
7	☐	10000.000	9960.048	27826272.36	2.4457	A	1.0
8	☐			6750.56	0.0006	P	4.8

y = 2.4555E-004 * x + 2.5709E-005
R = 1.0000
DL = 0.03085
BEC = 0.1047

Weight: <None>
Min Conc: 0

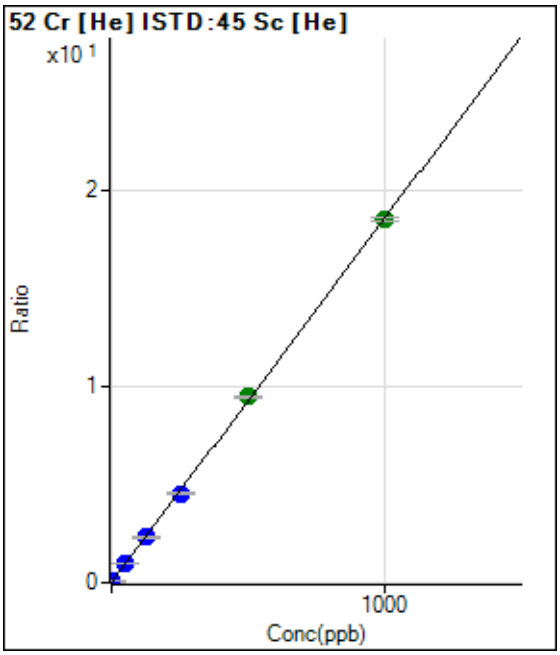


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.44	0.0001	P	41.6
2	☐	5.000	5.234	14687.64	0.0760	P	2.8
3	☐	50.000	50.307	142424.55	0.7292	P	1.5
4	☐	125.000	124.201	351135.56	1.8002	P	1.8
5	☐	250.000	246.584	709434.85	3.5739	P	0.6
6	☐	500.000	504.028	1454811.99	7.3050	A	0.9
7	☐	1000.000	998.924	2928988.40	14.4776	A	1.0
8	☐			761.14	0.0039	P	1.2

y = 0.0145 * x + 1.2683E-004
R = 1.0000
DL = 0.01091
BEC = 0.008751

Weight: <None>
Min Conc: 0

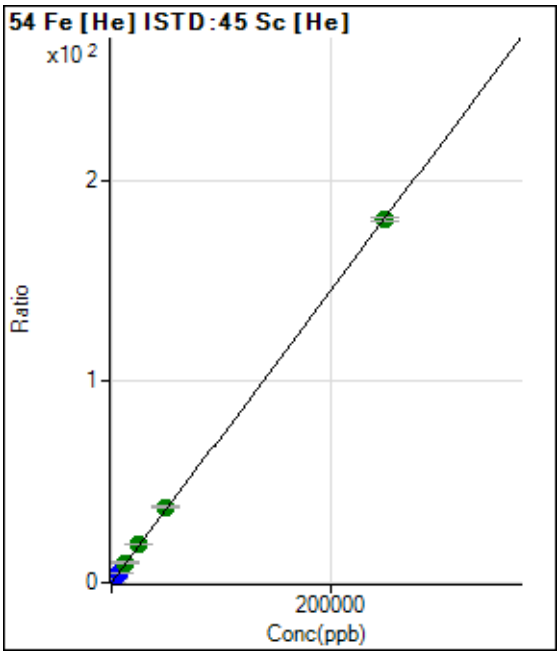
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2411.34	0.0125	P	2.3
2	☐	2.000	2.083	9902.40	0.0512	P	0.7
3	☐	50.000	50.379	185321.44	0.9489	P	1.2
4	☐	125.000	123.540	450326.15	2.3086	P	1.4
5	☐	250.000	244.942	906163.98	4.5649	P	0.5
6	☐	500.000	510.039	1890477.87	9.4920	A	0.8
7	☐	1000.000	996.409	3749578.25	18.5315	A	1.0
8	☐			11841.64	0.0612	P	0.8

y = 0.0186 * x + 0.0125
R = 0.9999
DL = 0.04656
BEC = 0.6733

Weight: <None>
Min Conc: 0

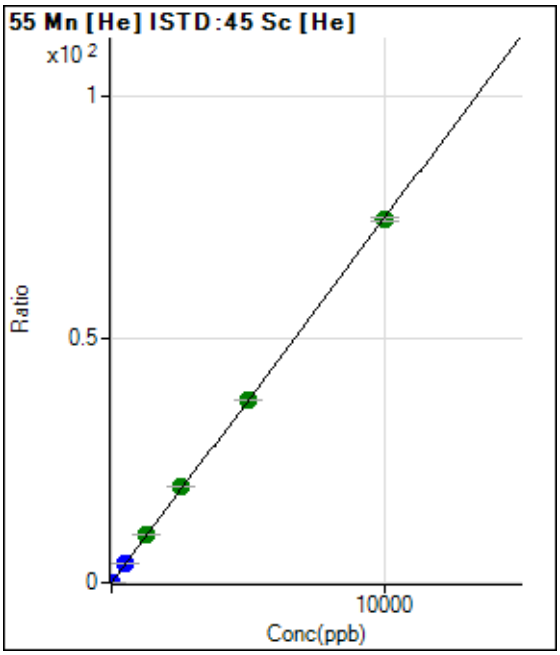


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	940.04	0.0049	P	1.8
2	☐	50.000	57.140	8930.62	0.0462	P	2.4
3	☐	2500.000	2729.489	386469.47	1.9787	P	0.4
4	☐	6250.000	6673.696	942344.96	4.8309	P	1.1
5	☐	12500.000	13834.041	1986773.67	10.0088	A	1.3
6	☐	25000.000	26738.502	3851433.17	19.3405	A	1.6
7	☐	50000.000	52169.886	7633327.18	37.7309	A	1.3
8	☐	250000.00	249312.58	34854722.26	180.2922	A	1.1

y = 7.2314E-004 * x + 0.0049
R = 0.9999
DL = 0.3726
BEC = 6.745

Weight: <None>
Min Conc: 0

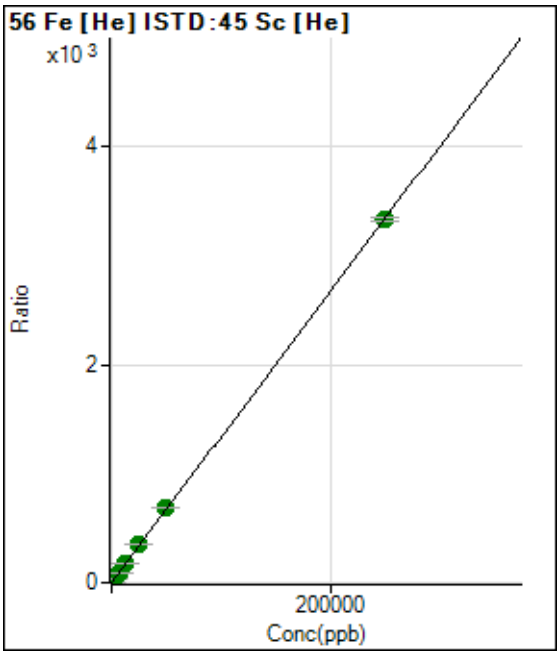
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.78	0.0015	P	9.8
2	☐	1.000	1.118	1916.82	0.0099	P	6.8
3	☐	500.000	515.267	753937.92	3.8601	P	0.7
4	☐	1250.000	1325.080	1936045.06	9.9243	A	2.8
5	☐	2500.000	2629.265	3908697.23	19.6906	A	0.5
6	☐	5000.000	5019.532	7486531.55	37.5900	A	0.6
7	☐	10000.000	9947.769	15071215.61	74.4948	A	1.1
8	☐			7003.99	0.0362	P	3.7

y = 0.0075 * x + 0.0015
R = 0.9999
DL = 0.06076
BEC = 0.2064

Weight: <None>
Min Conc: 0

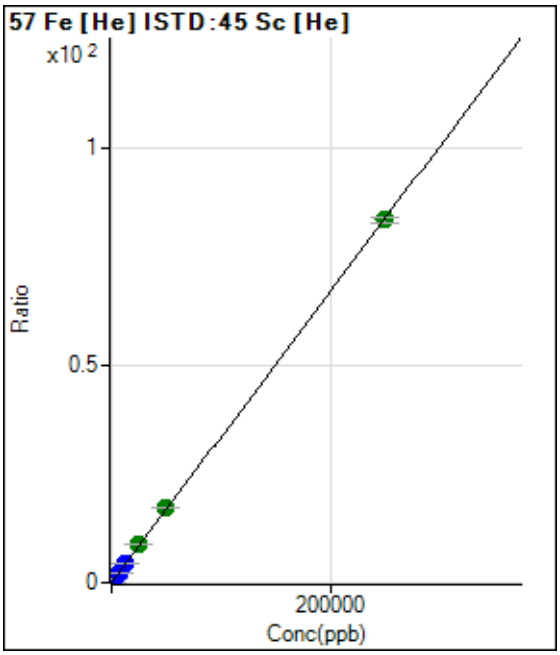


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13704.43	0.0711	P	0.8
2	☐	50.000	55.492	156918.78	0.8117	P	1.0
3	☐	2500.000	2781.141	7263276.49	37.1883	A	1.3
4	☐	6250.000	6752.603	17593125.15	90.1916	A	1.3
5	☐	12500.000	13439.839	35619474.47	179.4397	A	0.8
6	☐	25000.000	26163.877	69560257.30	349.2552	A	0.8
7	☐	50000.000	51386.944	138761192.3	685.8832	A	1.5
8	☐	250000.00	249543.85	643852408.1	3,330.492	A	1.1

y = 0.0133 * x + 0.0711
R = 1.0000
DL = 0.1342
BEC = 5.329

Weight: <None>
Min Conc: 0

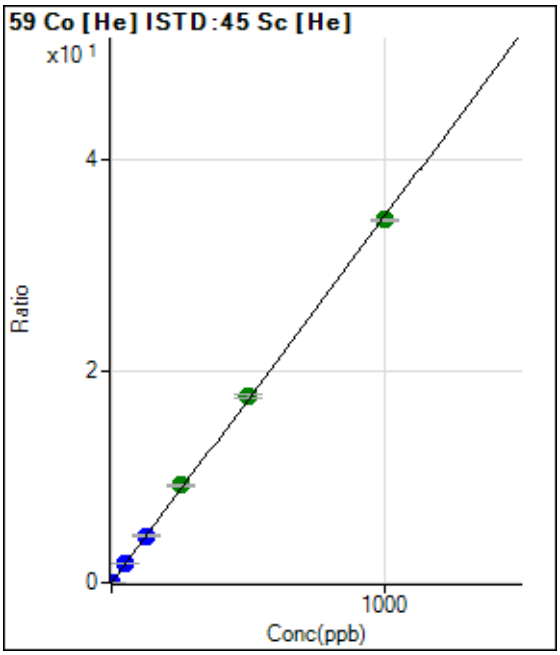
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310.01	0.0016	P	6.3
2	☐	50.000	59.124	4135.08	0.0214	P	0.7
3	☐	2500.000	2693.497	176306.03	0.9027	P	0.5
4	☐	6250.000	6548.399	427636.97	2.1922	P	1.0
5	☐	12500.000	12871.041	855038.51	4.3074	P	0.5
6	☐	25000.000	26480.742	1764547.65	8.8602	A	0.9
7	☐	50000.000	51424.323	3480784.60	17.2046	A	0.7
8	☐	250000.00	249539.11	16137824.90	83.4799	A	1.7

y = 3.3453E-004 * x + 0.0016
R = 1.0000
DL = 0.9042
BEC = 4.808

Weight: <None>
Min Conc: 0

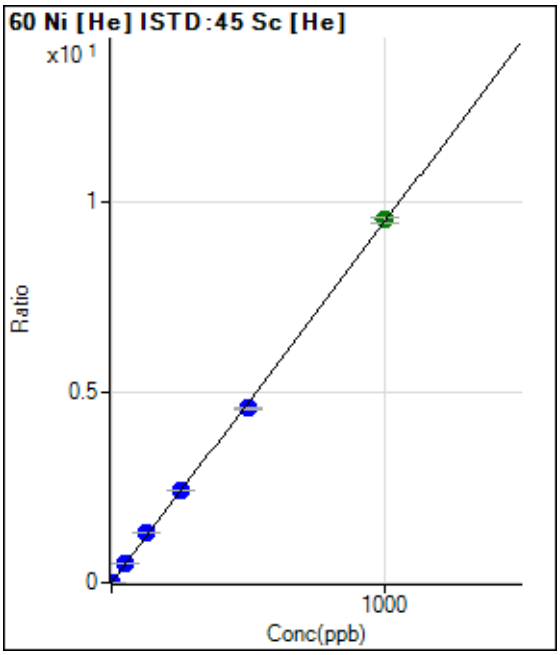


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.12	0.0015	P	5.6
2	☐	1.000	1.162	8085.72	0.0418	P	0.3
3	☐	50.000	52.694	357271.98	1.8292	P	0.0
4	☐	125.000	128.543	870000.01	4.4600	P	1.0
5	☐	250.000	265.566	1828731.34	9.2125	A	0.6
6	☐	500.000	509.470	3519226.41	17.6722	A	1.5
7	☐	1000.000	990.796	6953019.69	34.3667	A	0.7
8	☐			14055.91	0.0727	P	1.0

y = 0.0347 * x + 0.0015
R = 0.9998
DL = 0.007295
BEC = 0.04356

Weight: <None>
Min Conc: 0

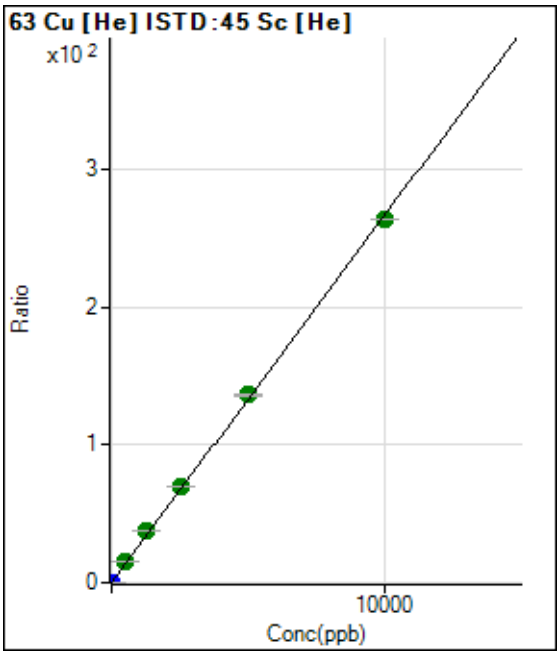
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1582.33	0.0082	P	5.2
2	☐	1.000	0.997	3413.78	0.0177	P	4.3
3	☐	50.000	53.542	100720.90	0.5157	P	1.2
4	☐	125.000	137.681	256156.81	1.3132	P	1.3
5	☐	250.000	253.762	479075.15	2.4134	P	0.7
6	☐	500.000	482.492	912373.04	4.5814	P	0.9
7	☐	1000.000	1006.051	1930846.88	9.5438	A	1.3
8	☐			6960.66	0.0360	P	3.4

y = 0.0095 * x + 0.0082
R = 0.9997
DL = 0.1343
BEC = 0.8663

Weight: <None>
Min Conc: 0

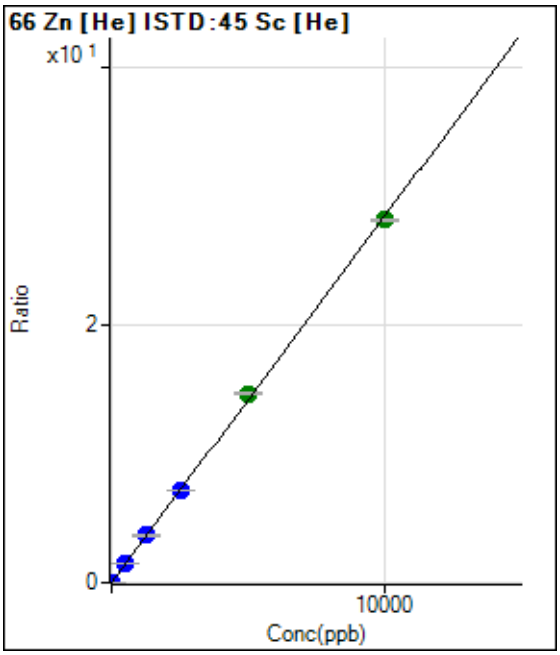


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3182.61	0.0165	P	4.8
2	☐	2.000	2.199	14541.99	0.0752	P	1.3
3	☐	500.000	566.051	2954698.53	15.1280	A	0.9
4	☐	1250.000	1423.897	7418343.92	38.0293	A	1.0
5	☐	2500.000	2640.562	13996619.37	70.5098	A	0.2
6	☐	5000.000	5119.581	27221595.15	136.6904	A	1.2
7	☐	10000.000	9880.030	53368512.54	263.7767	A	0.1
8	☐			13270.72	0.0687	P	2.7

y = 0.0267 * x + 0.0165
R = 0.9997
DL = 0.08985
BEC = 0.6187

Weight: <None>
Min Conc: 0

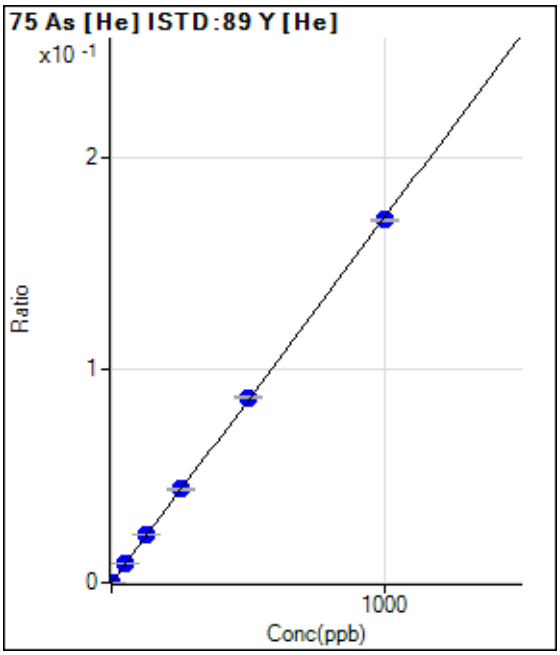
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0009	P	13.3
2	☐	2.000	5.574	3244.85	0.0168	P	3.8
3	☐	500.000	528.713	294121.75	1.5059	P	0.6
4	☐	1250.000	1291.270	717172.07	3.6765	P	0.8
5	☐	2500.000	2521.283	1424799.16	7.1776	P	0.3
6	☐	5000.000	5159.377	2924903.36	14.6868	A	1.2
7	☐	10000.000	9908.395	5706257.83	28.2046	A	0.7
8	☐			3107.04	0.0161	P	4.1

y = 0.0028 * x + 9.2263E-004
R = 0.9998
DL = 0.129
BEC = 0.3241

Weight: <None>
Min Conc: 0

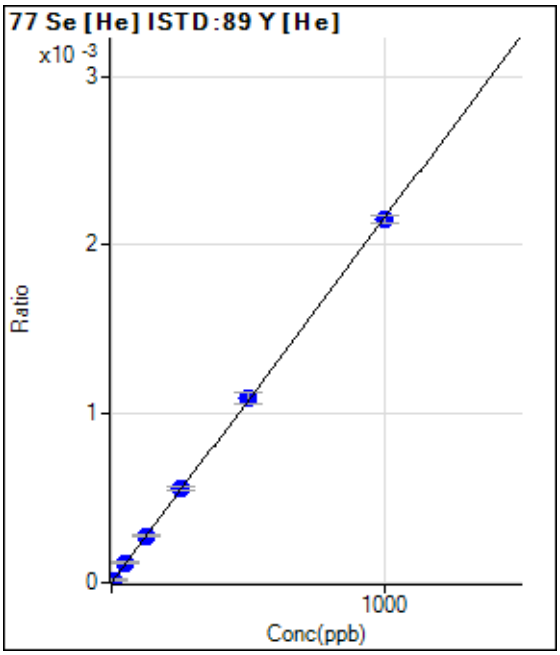


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.66	0.0000	P	87.7
2	☐	1.000	1.117	354.45	0.0002	P	6.6
3	☐	50.000	52.212	16152.68	0.0090	P	1.4
4	☐	125.000	129.606	40567.09	0.0223	P	0.4
5	☐	250.000	256.749	81845.65	0.0441	P	1.2
6	☐	500.000	507.472	160165.29	0.0871	P	0.7
7	☐	1000.000	993.890	318860.84	0.1707	P	0.5
8	☐			158.89	0.0001	P	15.6

y = 1.7171E-004 * x + 3.6894E-006
R = 0.9999
DL = 0.05655
BEC = 0.02149

Weight: <None>
Min Conc: 0

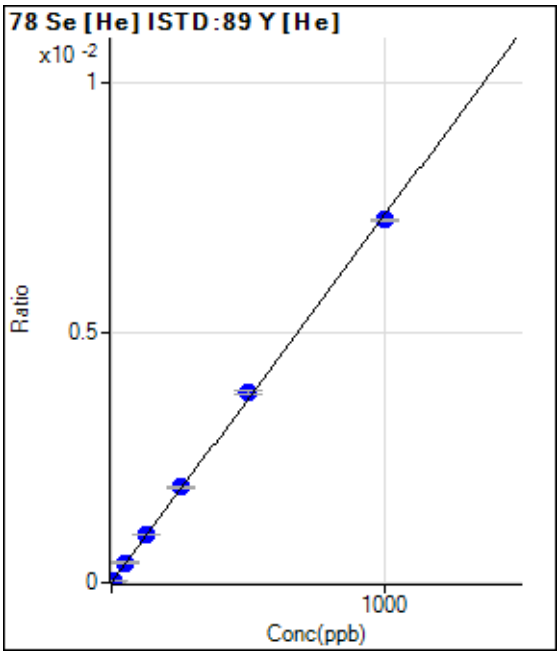
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.372	28.89	0.0000	P	23.7
3	☐	50.000	54.276	211.12	0.0001	P	5.3
4	☐	125.000	128.160	504.46	0.0003	P	4.9
5	☐	250.000	257.213	1031.16	0.0006	P	4.6
6	☐	500.000	505.671	2007.94	0.0011	P	6.0
7	☐	1000.000	994.741	4013.94	0.0021	P	2.2
8	☐			4.44	0.0000	P	43.6

y = 2.1599E-006 * x + 0.0000E+000
R = 1.0000
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

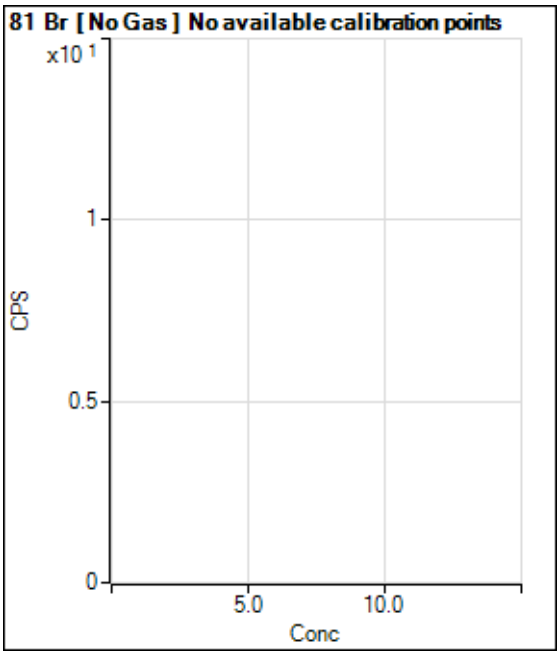


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	86.6
2	☐	5.000	5.837	84.44	0.0000	P	12.7
3	☐	50.000	53.876	720.03	0.0004	P	9.0
4	☐	125.000	131.773	1772.36	0.0010	P	0.5
5	☐	250.000	259.531	3548.26	0.0019	P	2.9
6	☐	500.000	518.620	7015.14	0.0038	P	1.9
7	☐	1000.000	987.263	13567.73	0.0073	P	0.5
8	☐			16.66	0.0000	P	34.9

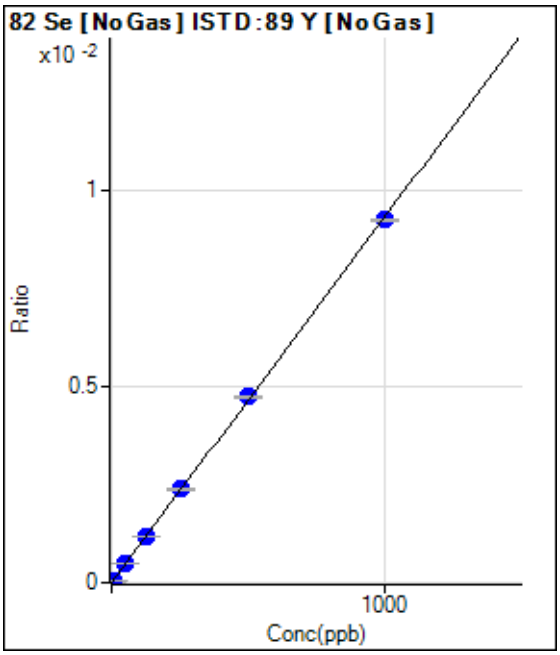
y = 7.3517E-006 * x + 3.6831E-006
R = 0.9997
DL = 1.302
BEC = 0.501

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4248.47		P	3.2
2	☐			4062.86		P	7.2
3	☐			4245.13		P	2.4
4	☐			4021.73		P	4.8
5	☐			4286.26		P	1.2
6	☐			4410.74		P	2.5
7	☐			4522.99		P	0.5
8	☐			4737.51		P	0.7

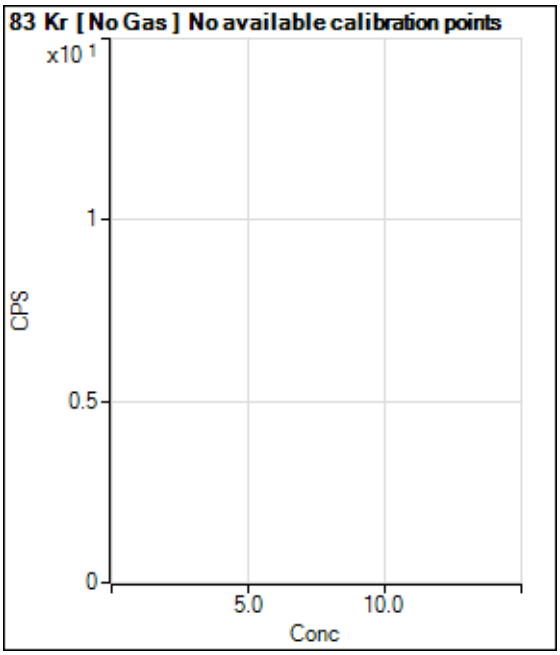


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-10.00	0.0000	P	-326.
2	☐	5.000	5.430	1429.00	0.0001	P	8.0
3	☐	50.000	53.598	14237.63	0.0005	P	2.6
4	☐	125.000	127.196	34454.16	0.0012	P	0.6
5	☐	250.000	257.137	68978.97	0.0024	P	1.7
6	☐	500.000	509.196	135678.18	0.0047	P	1.3
7	☐	1000.000	993.161	267436.29	0.0092	P	0.6
8	☐			-35.56	0.0000	P	-82.2

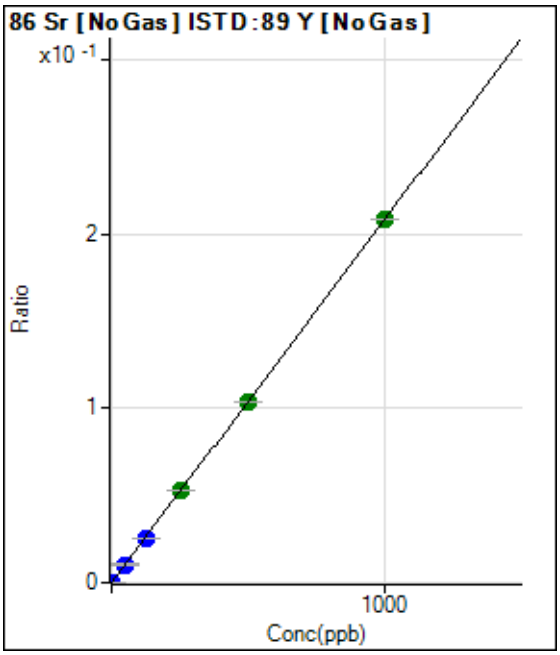
y = 9.2912E-006 * x - 3.5107E-007
R = 0.9999
DL = 0.3698
BEC = -0.03779

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			302.23		P	14.0
2	☐			277.78		P	4.2
3	☐			301.12		P	14.6
4	☐			323.34		P	11.9
5	☐			320.01		P	13.8
6	☐			307.78		P	3.1
7	☐			392.23		P	12.2
8	☐			454.46		P	6.7

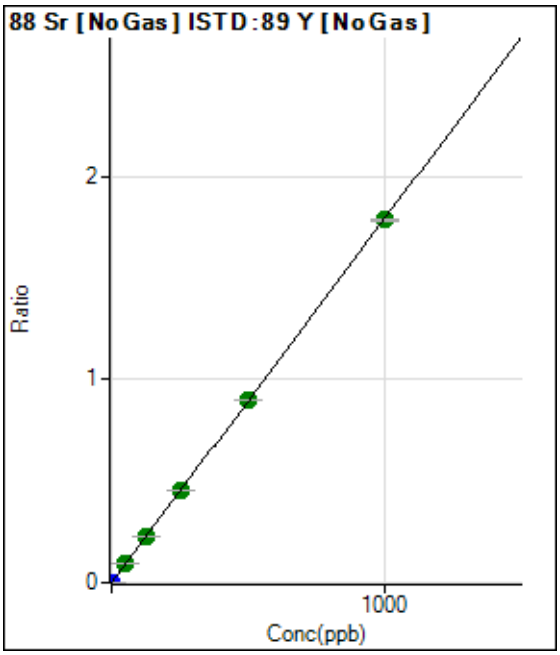


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	760.03	0.0000	P	8.6
2	☐	1.000	1.040	6924.01	0.0002	P	1.6
3	☐	50.000	50.112	298985.81	0.0105	P	1.1
4	☐	125.000	119.820	727600.10	0.0250	P	0.7
5	☐	250.000	255.034	1532833.28	0.0531	A	1.3
6	☐	500.000	498.992	2977806.41	0.1038	A	0.7
7	☐	1000.000	999.887	6029046.58	0.2080	A	0.2
8	☐			17527.74	0.0007	P	2.4

y = 2.0801E-004 * x + 2.6575E-005
R = 1.0000
DL = 0.03303
BEC = 0.1278

Weight: <None>
Min Conc: 0

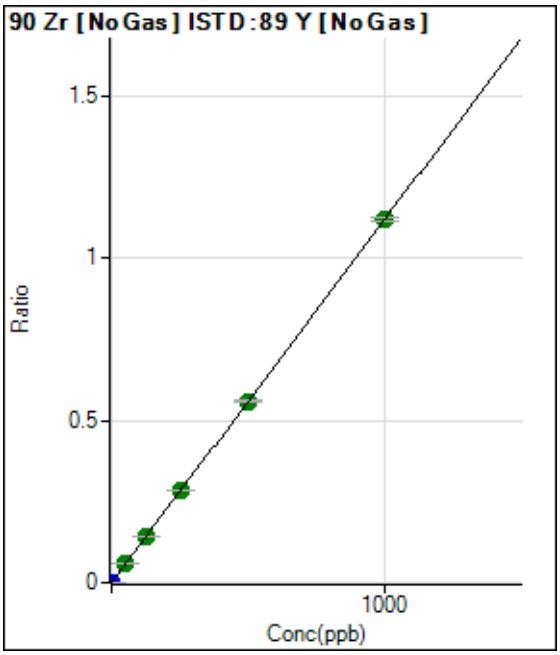
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2519.14	0.0001	P	3.8
2	☐	1.000	1.034	55269.88	0.0019	P	1.0
3	☐	50.000	53.039	2717709.68	0.0950	A	0.5
4	☐	125.000	126.647	6611146.92	0.2267	A	0.6
5	☐	250.000	253.943	13124014.67	0.4545	A	1.7
6	☐	500.000	502.630	25797808.23	0.8995	A	0.8
7	☐	1000.000	997.341	51726355.89	1.7847	A	0.3
8	☐			147615.04	0.0055	P	0.5

y = 0.0018 * x + 8.8084E-005
R = 1.0000
DL = 0.00558
BEC = 0.04923

Weight: <None>
Min Conc: 0

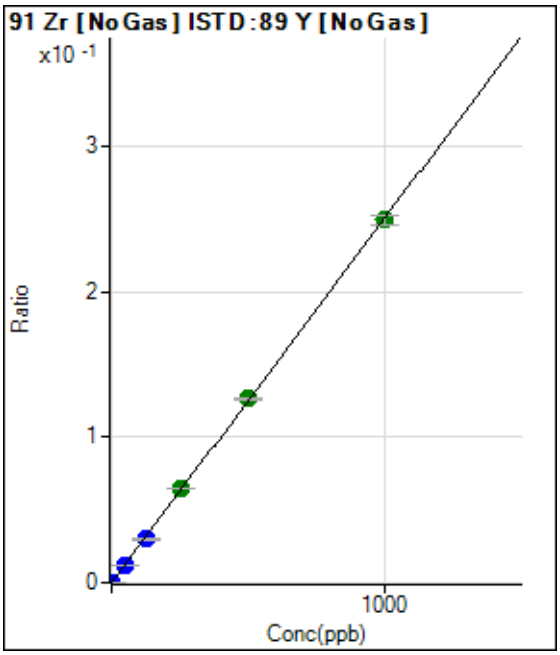


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	965.60	0.0000	P	5.1
2	☐	1.000	1.011	33222.83	0.0012	P	0.3
3	☐	50.000	52.764	1690984.39	0.0591	A	1.3
4	☐	125.000	125.857	4109488.03	0.1409	A	2.0
5	☐	250.000	253.096	8183881.68	0.2834	A	0.7
6	☐	500.000	498.384	16003637.82	0.5580	A	1.0
7	☐	1000.000	999.789	32441605.90	1.1193	A	1.0
8	☐			50619.19	0.0019	P	0.2

y = 0.0011 * x + 3.3753E-005
R = 1.0000
DL = 0.004572
BEC = 0.03015

Weight: <None>
Min Conc: 0

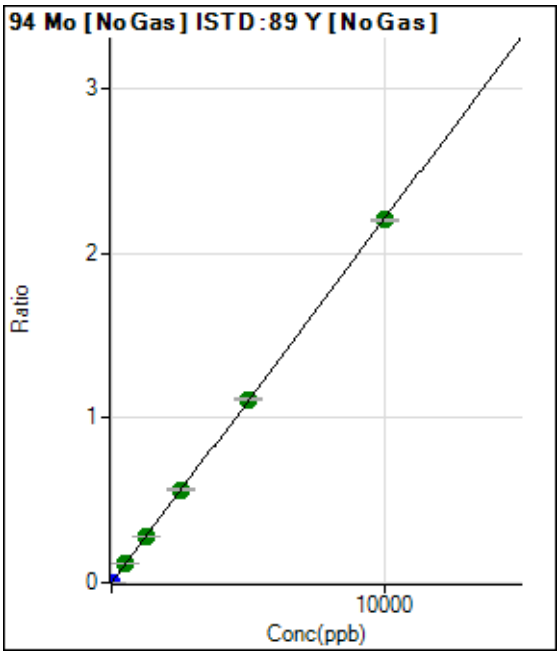
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0000	P	2.6
2	☐	1.000	0.995	7257.51	0.0003	P	2.5
3	☐	50.000	49.156	351847.29	0.0123	P	1.0
4	☐	125.000	118.951	867541.09	0.0298	P	1.6
5	☐	250.000	258.803	1869052.66	0.0647	A	1.3
6	☐	500.000	504.570	3619160.19	0.1262	A	0.3
7	☐	1000.000	996.313	7220876.01	0.2492	A	2.3
8	☐			11103.40	0.0004	P	2.1

y = 2.5007E-004 * x + 5.7111E-006
R = 0.9999
DL = 0.001756
BEC = 0.02284

Weight: <None>
Min Conc: 0

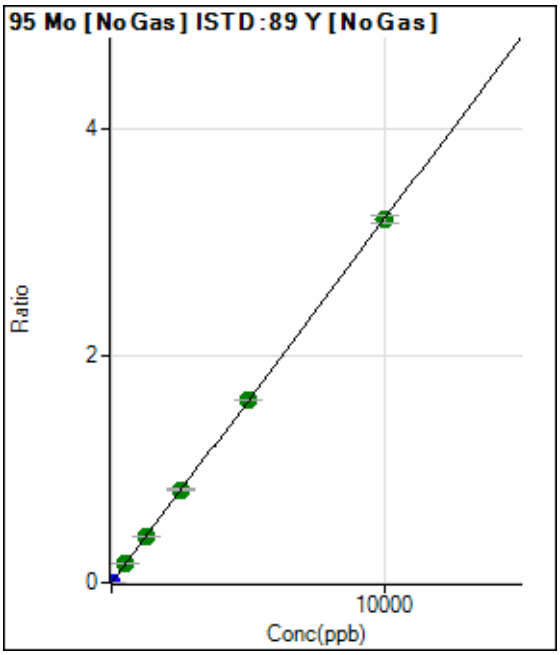


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	635.58	0.0000	P	0.8
2	☐	5.000	6.082	38950.00	0.0014	P	1.4
3	☐	500.000	525.941	3325209.15	0.1162	A	0.7
4	☐	1250.000	1255.324	8088192.45	0.2774	A	2.1
5	☐	2500.000	2557.772	16320761.56	0.5652	A	0.9
6	☐	5000.000	5024.081	31837496.75	1.1101	A	1.0
7	☐	10000.000	9971.553	63855563.49	2.2032	A	0.7
8	☐			44728.46	0.0017	P	1.8

y = 2.2095E-004 * x + 2.2220E-005
R = 1.0000
DL = 0.002436
BEC = 0.1006

Weight: <None>
Min Conc: 0

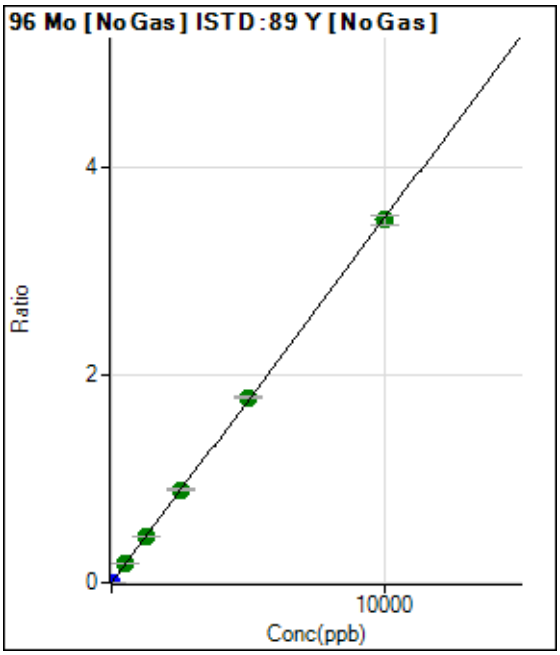
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.35	0.0000	P	4.4
2	☐	5.000	5.055	46720.54	0.0016	P	1.3
3	☐	500.000	524.431	4805117.43	0.1680	A	1.1
4	☐	1250.000	1264.363	11807110.24	0.4049	A	1.1
5	☐	2500.000	2557.750	23651638.26	0.8191	A	1.7
6	☐	5000.000	5017.180	46080458.76	1.6066	A	0.6
7	☐	10000.000	9973.956	92565740.84	3.1939	A	2.2
8	☐			46685.98	0.0017	P	1.3

y = 3.2022E-004 * x + 1.9699E-005
R = 1.0000
DL = 0.008057
BEC = 0.06152

Weight: <None>
Min Conc: 0

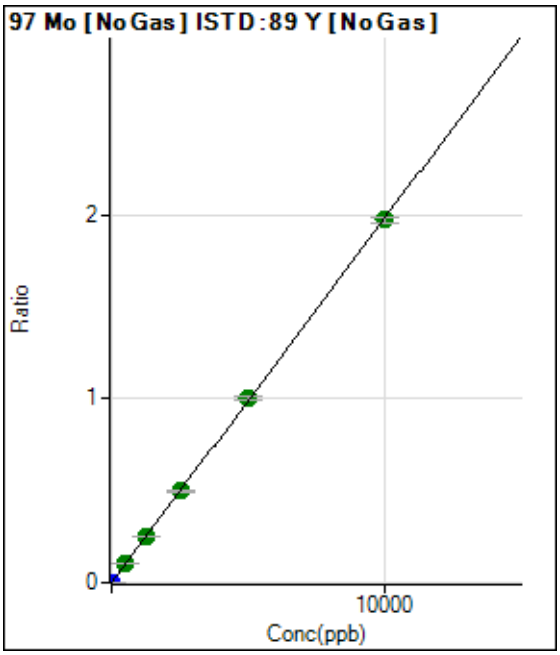


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	678.91	0.0000	P	6.2
2	☐	5.000	5.123	51936.49	0.0018	P	1.3
3	☐	500.000	527.831	5299606.69	0.1852	A	0.4
4	☐	1250.000	1263.631	12930351.61	0.4434	A	1.4
5	☐	2500.000	2548.486	25821340.45	0.8943	A	2.5
6	☐	5000.000	5068.475	51012053.68	1.7785	A	0.9
7	☐	10000.000	9950.546	101193576.2	3.4916	A	2.4
8	☐			52954.93	0.0020	P	1.0

y = 3.5090E-004 * x + 2.3741E-005
R = 1.0000
DL = 0.01251
BEC = 0.06766

Weight: <None>
Min Conc: 0

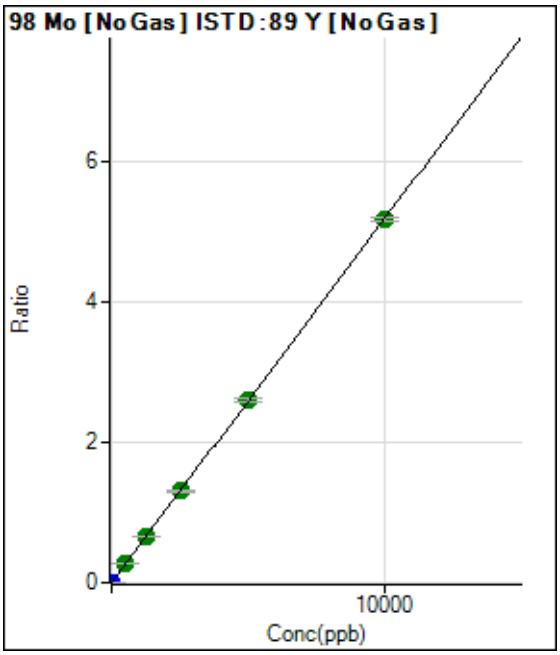
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	375.57	0.0000	P	9.5
2	☐	5.000	5.057	28924.57	0.0010	P	1.3
3	☐	500.000	531.192	3009434.68	0.1052	A	0.5
4	☐	1250.000	1252.798	7233380.24	0.2481	A	1.8
5	☐	2500.000	2533.277	14483760.34	0.5016	A	2.2
6	☐	5000.000	5055.891	28709459.57	1.0011	A	1.9
7	☐	10000.000	9961.826	57166441.92	1.9724	A	1.3
8	☐			27688.79	0.0010	P	2.6

y = 1.9800E-004 * x + 1.3129E-005
R = 1.0000
DL = 0.01891
BEC = 0.06631

Weight: <None>
Min Conc: 0

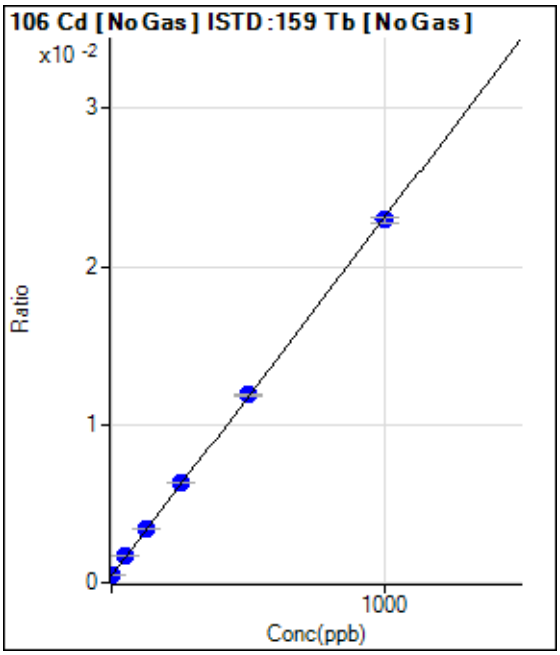


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	911.15	0.0000	P	4.2
2	☐	5.000	5.045	75457.98	0.0026	P	1.1
3	☐	500.000	523.988	7768947.59	0.2715	A	0.6
4	☐	1250.000	1256.603	18987132.91	0.6512	A	2.1
5	☐	2500.000	2533.761	37913013.32	1.3130	A	1.9
6	☐	5000.000	5029.896	74745072.77	2.6064	A	2.4
7	☐	10000.000	9974.587	149801503.3	5.1686	A	1.0
8	☐			71449.53	0.0027	P	1.2

y = 5.1818E-004 * x + 3.1860E-005
R = 1.0000
DL = 0.007771
BEC = 0.06148

Weight: <None>
Min Conc: 0

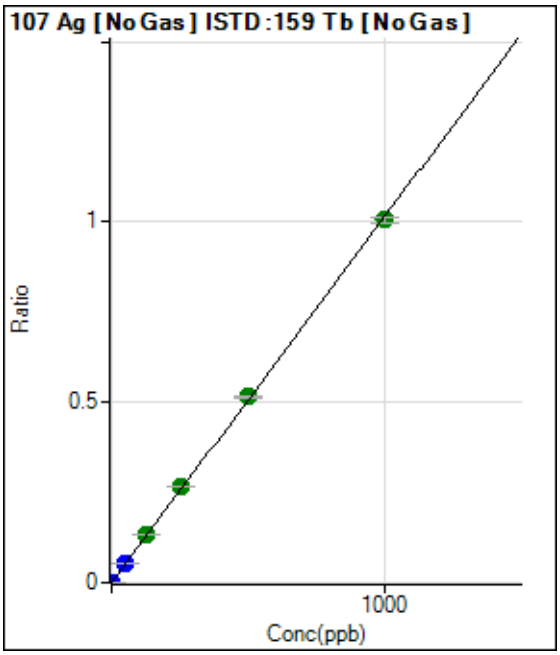
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9663.49	0.0004	P	1.3
2	☐	1.000	0.521	9875.85	0.0004	P	2.1
3	☐	50.000	54.097	36940.52	0.0017	P	1.0
4	☐	125.000	129.854	76428.85	0.0034	P	1.5
5	☐	250.000	259.922	142870.45	0.0063	P	0.1
6	☐	500.000	506.184	266382.51	0.0119	P	0.9
7	☐	1000.000	993.617	515991.81	0.0229	P	1.6
8	☐			8886.27	0.0004	P	0.5

y = 2.2657E-005 * x + 4.3249E-004
R = 0.9999
DL = 0.7371
BEC = 19.09

Weight: <None>
Min Conc: 0

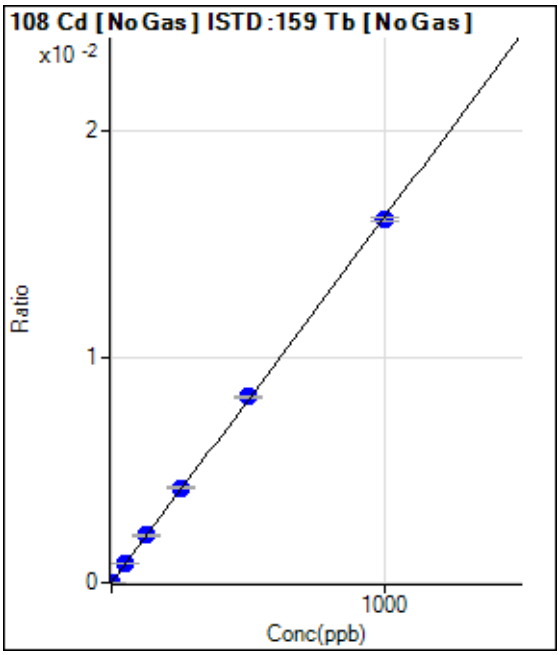


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.12	0.0000	P	17.9
2	☐	1.000	1.030	23431.12	0.0011	P	1.5
3	☐	50.000	52.372	1182757.49	0.0531	P	0.8
4	☐	125.000	132.794	3048447.00	0.1346	A	0.3
5	☐	250.000	262.527	6013577.06	0.2661	A	1.4
6	☐	500.000	507.672	11516918.58	0.5145	A	1.1
7	☐	1000.000	991.940	22609496.05	1.0054	A	1.2
8	☐			3906.15	0.0002	P	4.7

y = 0.0010 * x + 1.0349E-005
R = 0.9999
DL = 0.005469
BEC = 0.01021

Weight: <None>
Min Conc: 0

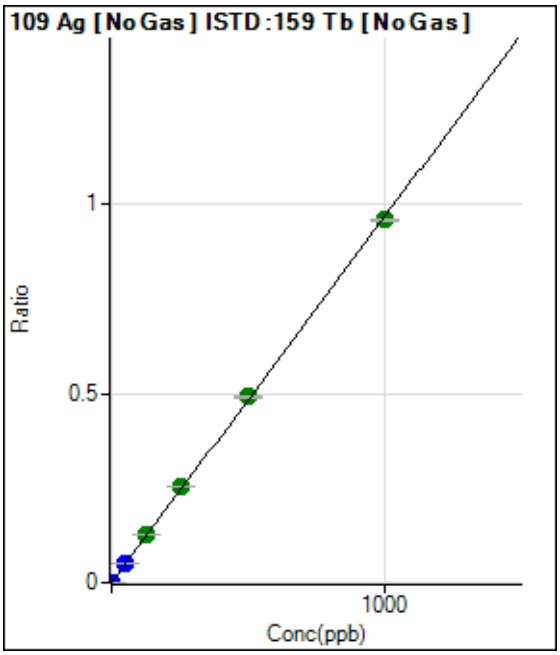
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.55	0.0000	P	41.9
2	☐	1.000	1.110	424.45	0.0000	P	16.0
3	☐	50.000	54.618	19708.65	0.0009	P	1.7
4	☐	125.000	128.967	47274.06	0.0021	P	0.8
5	☐	250.000	258.843	94653.05	0.0042	P	1.4
6	☐	500.000	508.375	184089.89	0.0082	P	0.6
7	☐	1000.000	992.875	361208.50	0.0161	P	1.1
8	☐			282.23	0.0000	P	6.8

y = 1.6176E-005 * x + 1.1437E-006
R = 0.9999
DL = 0.08884
BEC = 0.0707

Weight: <None>
Min Conc: 0

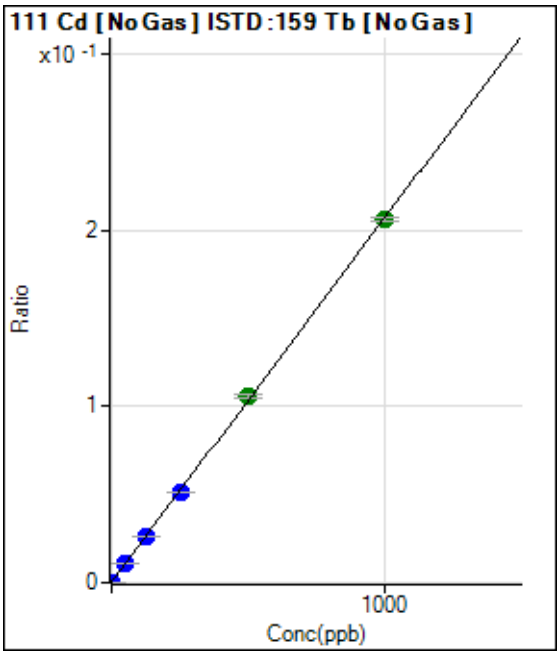


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.89	0.0000	P	15.3
2	☐	1.000	1.034	22313.70	0.0010	P	0.6
3	☐	50.000	52.502	1130740.35	0.0508	P	1.1
4	☐	125.000	132.617	2903513.88	0.1282	A	0.8
5	☐	250.000	262.121	5726750.75	0.2534	A	1.3
6	☐	500.000	507.529	10981570.32	0.4906	A	0.7
7	☐	1000.000	992.128	21569063.99	0.9591	A	0.6
8	☐			3597.18	0.0002	P	2.2

y = 9.6667E-004 * x + 4.8711E-006
R = 0.9999
DL = 0.002314
BEC = 0.005039

Weight: <None>
Min Conc: 0

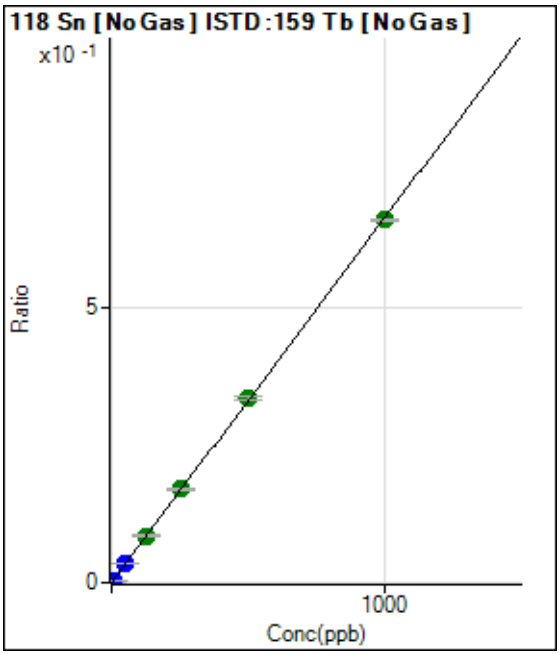
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6776.56	0.0003	P	1.2
2	☐	1.000	1.032	11481.32	0.0005	P	2.1
3	☐	50.000	51.819	245204.72	0.0110	P	1.6
4	☐	125.000	123.440	584347.45	0.0258	P	1.0
5	☐	250.000	245.641	1153619.21	0.0510	P	0.7
6	☐	500.000	511.663	2372546.08	0.1060	A	1.4
7	☐	1000.000	995.362	4630678.07	0.2059	A	1.0
8	☐			7069.55	0.0003	P	1.3

y = 2.0656E-004 * x + 3.0328E-004
R = 0.9999
DL = 0.05212
BEC = 1.468

Weight: <None>
Min Conc: 0

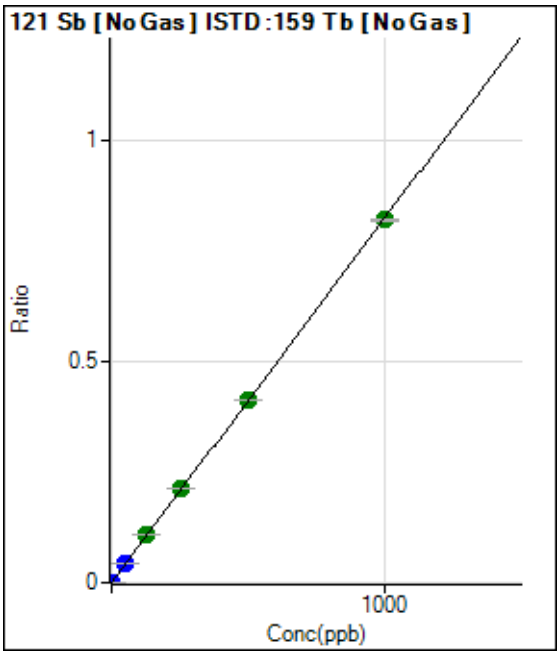


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2545.82	0.0001	P	4.5
2	☐	5.000	5.282	80462.18	0.0036	P	1.1
3	☐	50.000	51.040	757387.27	0.0340	P	1.2
4	☐	125.000	129.001	1942159.66	0.0858	A	0.6
5	☐	250.000	255.920	3842346.09	0.1700	A	0.8
6	☐	500.000	504.868	7504292.67	0.3353	A	2.2
7	☐	1000.000	995.533	14865999.08	0.6610	A	0.7
8	☐			4287.39	0.0002	P	4.7

y = 6.6387E-004 * x + 1.1394E-004
R = 1.0000
DL = 0.02334
BEC = 0.1716

Weight: <None>
Min Conc: 0

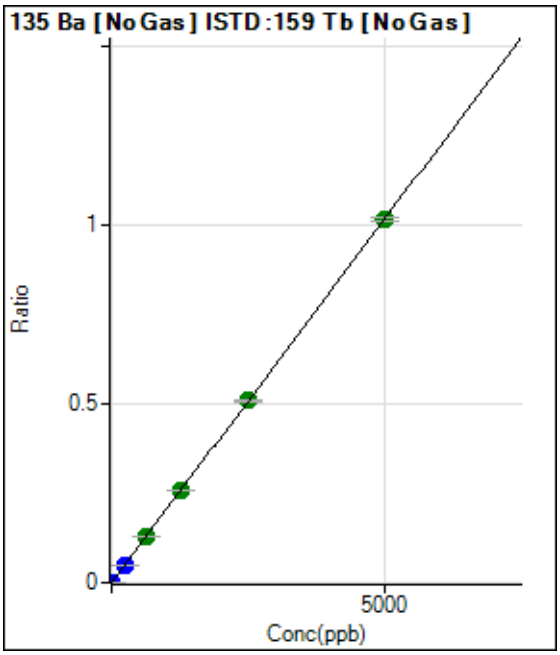
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0000	P	15.6
2	☐	2.000	2.077	38149.80	0.0017	P	1.3
3	☐	50.000	50.804	934041.99	0.0419	P	1.3
4	☐	125.000	130.240	2434251.56	0.1075	A	0.6
5	☐	250.000	258.140	4814561.91	0.2130	A	1.1
6	☐	500.000	502.441	9280938.75	0.4146	A	0.4
7	☐	1000.000	996.049	18486348.06	0.8220	A	0.7
8	☐			12985.16	0.0006	P	1.0

y = 8.2524E-004 * x + 2.1372E-006
R = 1.0000
DL = 0.001215
BEC = 0.00259

Weight: <None>
Min Conc: 0

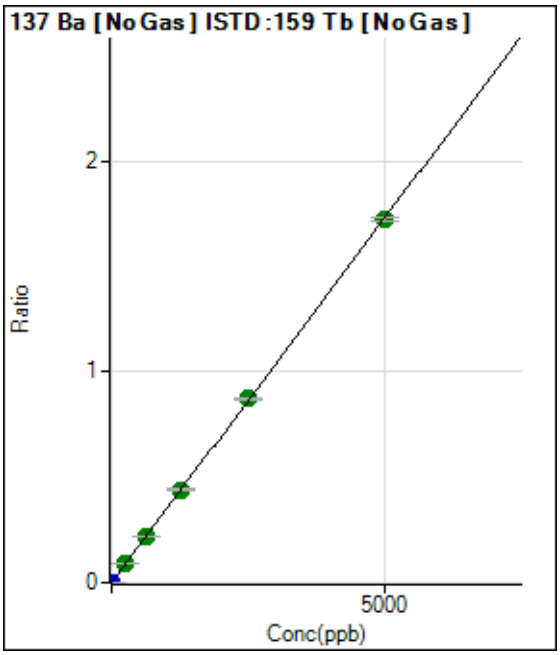


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	475.57	0.0000	P	8.0
2	☐	10.000	10.100	46160.48	0.0021	P	2.0
3	☐	250.000	249.005	1129521.36	0.0507	P	0.7
4	☐	625.000	645.688	2976813.08	0.1314	A	0.4
5	☐	1250.000	1274.333	5862127.27	0.2594	A	1.2
6	☐	2500.000	2500.524	11391818.30	0.5089	A	0.3
7	☐	5000.000	4991.119	22845508.27	1.0158	A	1.0
8	☐			8426.04	0.0004	P	3.1

y = 2.0353E-004 * x + 2.1282E-005
R = 1.0000
DL = 0.02507
BEC = 0.1046

Weight: <None>
Min Conc: 0

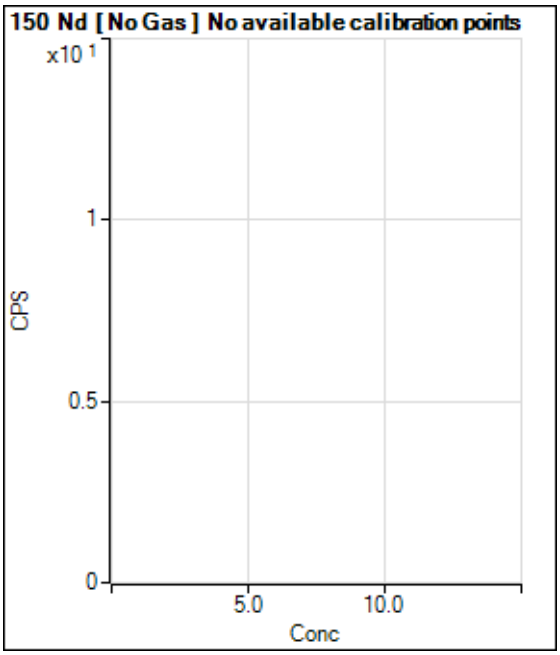
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	791.14	0.0000	P	5.3
2	☐	10.000	10.301	79966.69	0.0036	P	0.4
3	☐	250.000	263.543	2031270.60	0.0912	A	1.5
4	☐	625.000	641.998	5029201.80	0.2221	A	1.1
5	☐	1250.000	1275.916	9973356.03	0.4413	A	0.7
6	☐	2500.000	2523.737	19535843.60	0.8728	A	1.4
7	☐	5000.000	4978.850	38724544.15	1.7219	A	0.9
8	☐			14325.49	0.0007	P	3.5

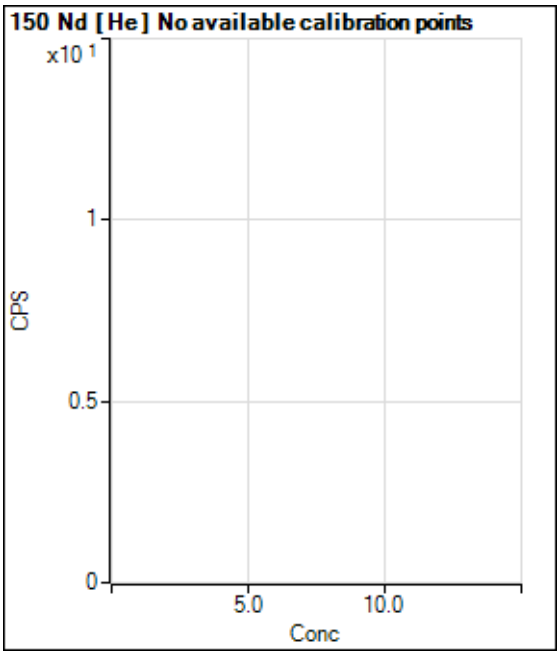
y = 3.4583E-004 * x + 3.5414E-005
R = 1.0000
DL = 0.01625
BEC = 0.1024

Weight: <None>
Min Conc: 0

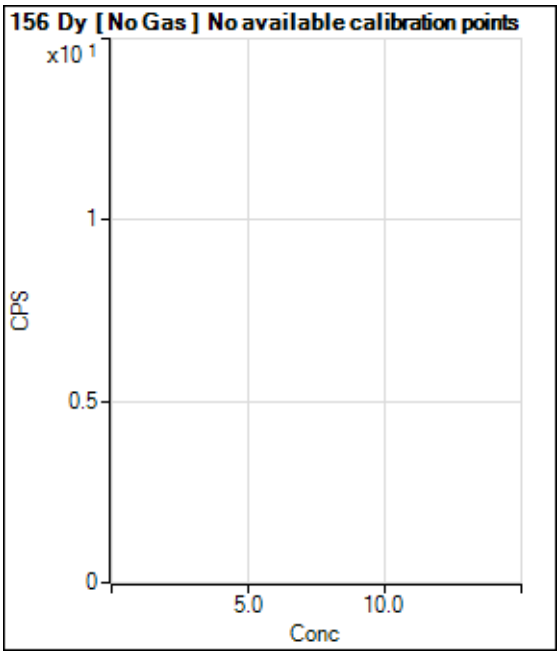


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21.11		P	39.7
2	☐			27.78		P	42.1
3	☐			112.22		P	30.5
4	☐			238.90		P	17.4
5	☐			436.68		P	11.6
6	☐			836.70		P	6.7
7	☐			1645.68		P	7.2
8	☐			350.01		P	7.8

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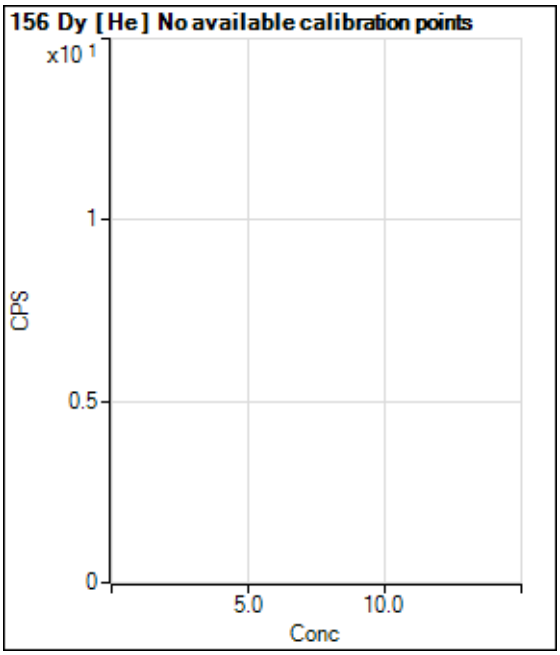


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			5.56		P	34.7
2	☐			3.33		P	100.1
3	☐			3.33		P	100.1
4	☐			6.67		P	50.0
5	☐			17.78		P	28.6
6	☐			13.33		P	25.0
7	☐			47.78		P	21.3
8	☐			86.67		P	16.8

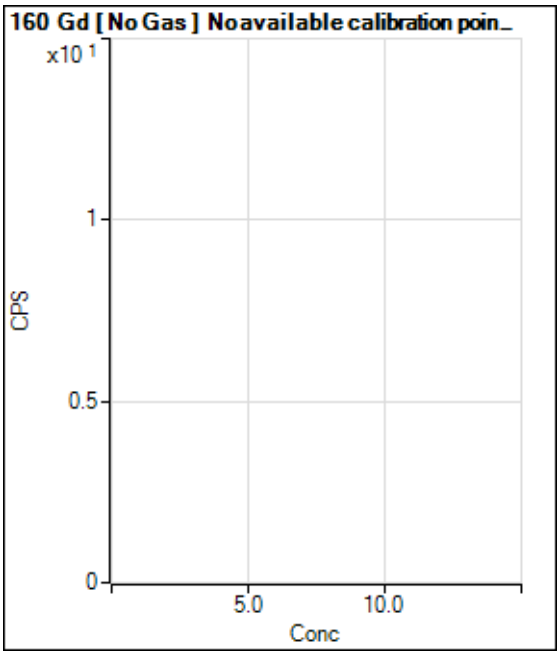


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			104.45		P	28.6
2	☐			70.00		P	4.8
3	☐			114.45		P	6.7
4	☐			121.11		P	19.5
5	☐			162.23		P	7.8
6	☐			284.45		P	8.0
7	☐			507.79		P	10.6
8	☐			670.02		P	1.8

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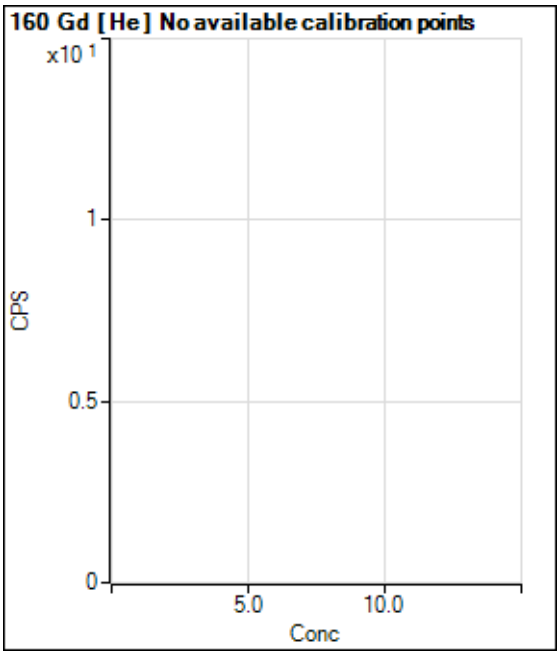


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.2
2	☐			12.22		P	87.7
3	☐			10.00		P	88.2
4	☐			16.67		P	52.9
5	☐			18.89		P	27.0
6	☐			32.22		P	41.8
7	☐			44.44		P	33.8
8	☐			221.11		P	28.9

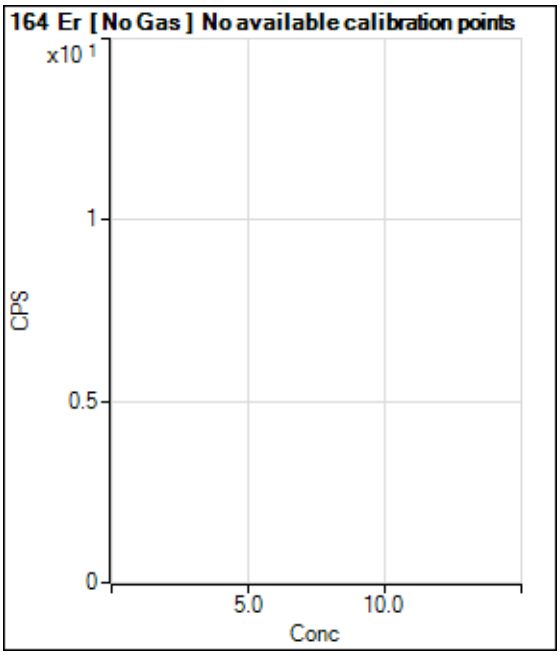


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			123.33		P	25.8
2	☐			150.00		P	13.3
3	☐			140.00		P	16.5
4	☐			128.89		P	25.9
5	☐			163.34		P	4.1
6	☐			226.67		P	7.4
7	☐			282.23		P	8.3
8	☐			683.36		P	2.6

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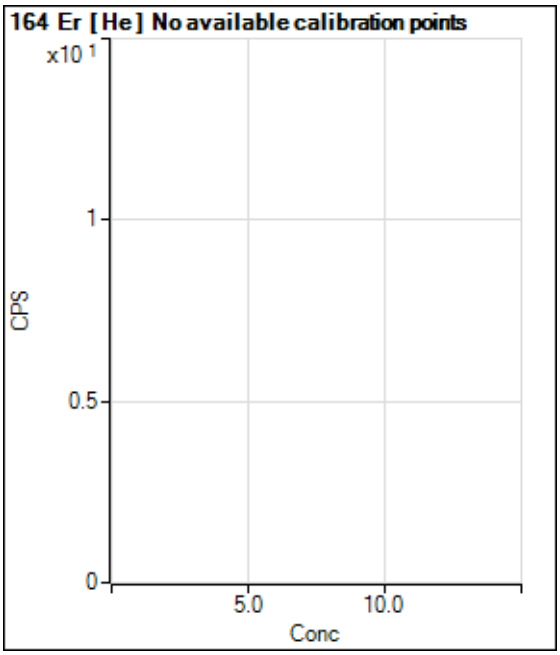


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21.11		P	32.9
2	☐			20.00		P	57.7
3	☐			24.45		P	15.8
4	☐			31.11		P	27.0
5	☐			31.11		P	83.2
6	☐			46.67		P	18.9
7	☐			91.11		P	11.8
8	☐			230.00		P	2.5

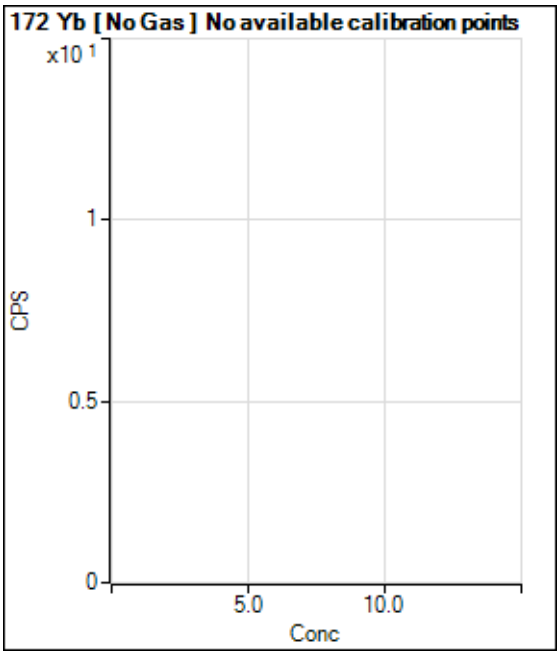


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			98.89		P	7.0
2	☐			102.22		P	16.1
3	☐			125.56		P	9.3
4	☐			125.56		P	12.5
5	☐			160.01		P	9.5
6	☐			190.00		P	7.6
7	☐			287.78		P	11.0
8	☐			824.48		P	11.6

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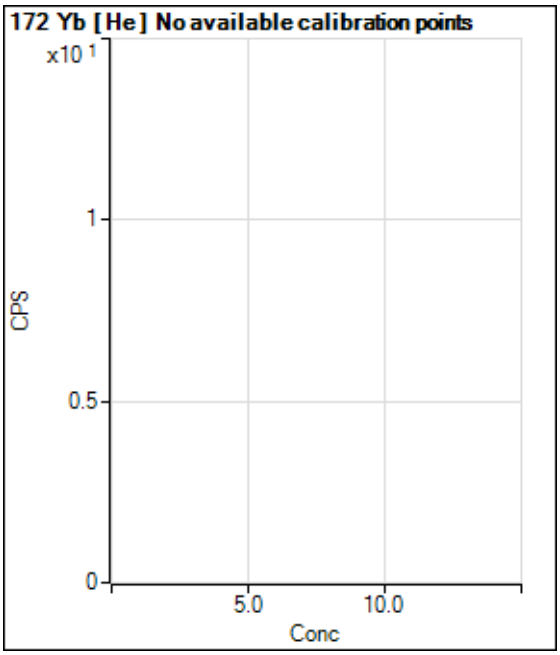


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			21.11		P	24.1
2	☐			28.89		P	24.0
3	☐			37.78		P	18.4
4	☐			27.78		P	36.7
5	☐			64.44		P	3.0
6	☐			47.78		P	28.2
7	☐			94.45		P	20.7
8	☐			232.22		P	12.0

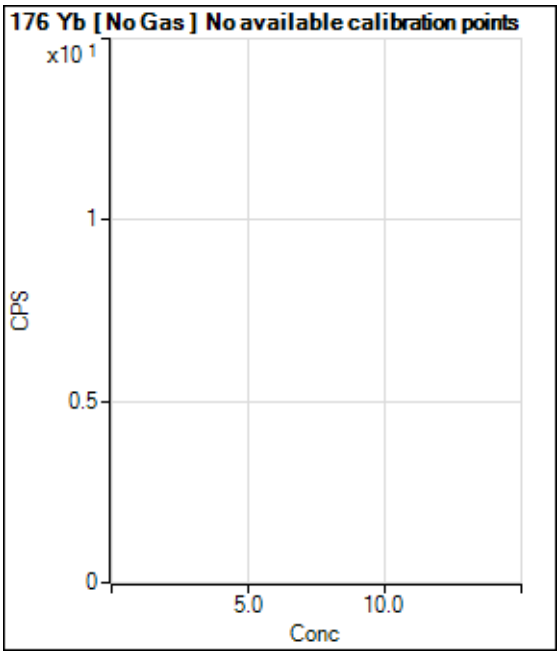


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			97.78		P	7.9
2	☐			111.11		P	13.5
3	☐			130.00		P	9.2
4	☐			163.34		P	19.5
5	☐			166.67		P	12.5
6	☐			210.00		P	18.7
7	☐			270.01		P	17.3
8	☐			855.59		P	6.2

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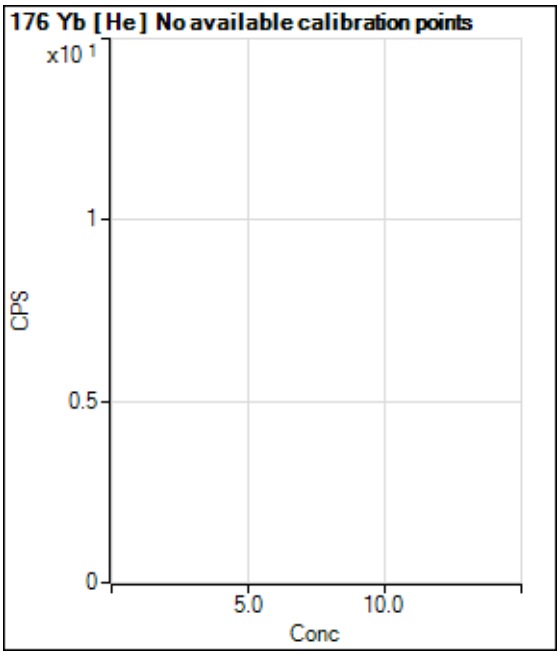


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			54.44		P	15.4
2	☐			51.11		P	19.9
3	☐			42.22		P	12.1
4	☐			47.78		P	28.2
5	☐			72.22		P	18.7
6	☐			68.89		P	10.1
7	☐			133.33		P	11.5
8	☐			336.67		P	9.4

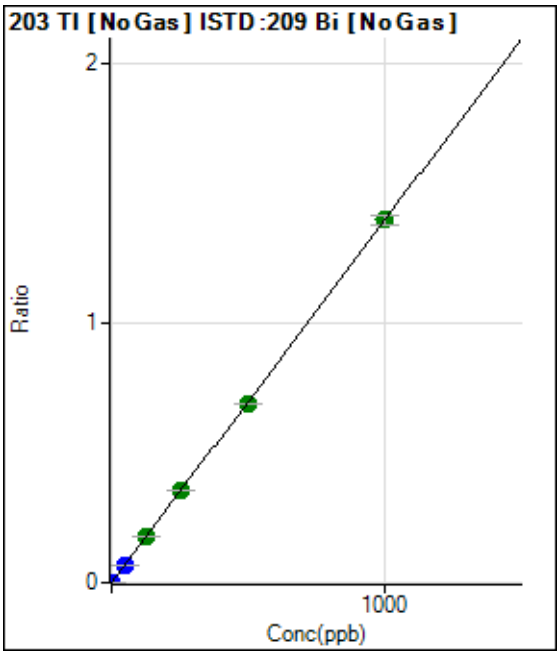


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2582.50		P	4.0
2	☐			2490.26		P	1.6
3	☐			7010.82		P	3.2
4	☐			13372.44		P	1.2
5	☐			23610.07		P	1.7
6	☐			44868.05		P	1.3
7	☐			86846.23		P	1.0
8	☐			2937.03		P	3.0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			377.79		P	4.9
2	☐			405.57		P	4.5
3	☐			1792.36		P	1.9
4	☐			3695.00		P	1.4
5	☐			7183.11		P	1.1
6	☐			13565.96		P	1.2
7	☐			26659.16		P	1.4
8	☐			583.35		P	8.4

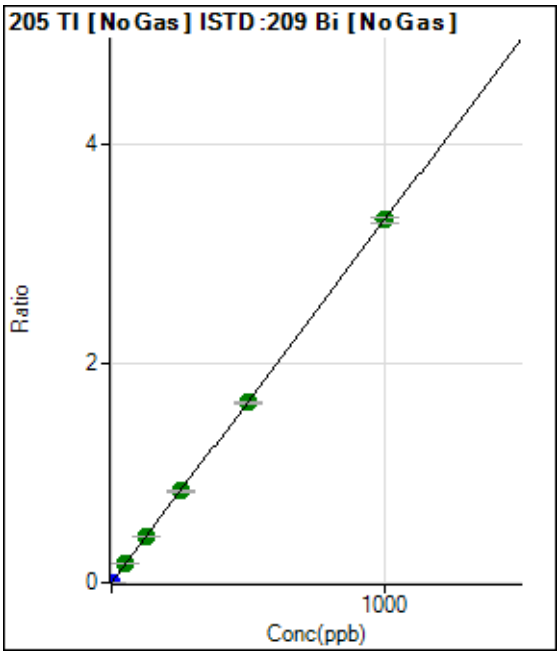


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	360.01	0.0000	P	6.7
2	☐	1.000	0.974	19583.78	0.0014	P	2.4
3	☐	50.000	49.138	959486.71	0.0687	P	1.7
4	☐	125.000	126.632	2472915.31	0.1769	A	0.6
5	☐	250.000	254.341	4898405.48	0.3553	A	1.3
6	☐	500.000	494.220	9353887.08	0.6905	A	0.5
7	☐	1000.000	1001.644	18661958.75	1.3993	A	2.6
8	☐			1905.72	0.0002	P	18.1

y = 0.0014 * x + 2.5448E-005
R = 1.0000
DL = 0.00366
BEC = 0.01822

Weight: <None>
Min Conc: 0

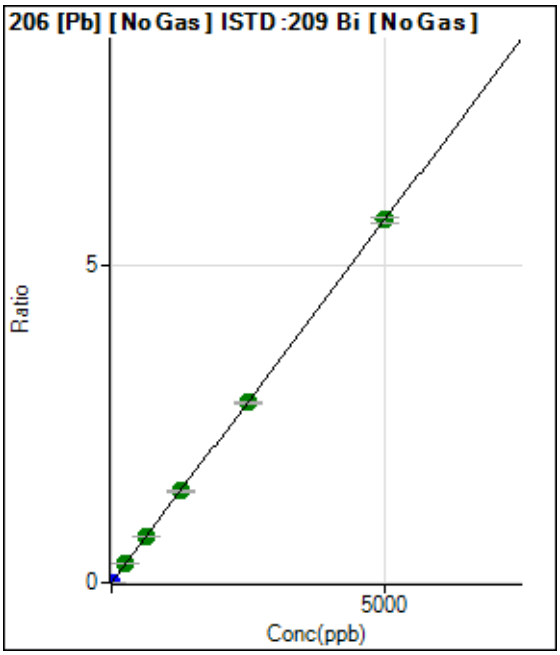
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	942.27	0.0001	P	1.7
2	☐	1.000	0.988	47234.47	0.0033	P	0.4
3	☐	50.000	52.225	2420211.61	0.1732	A	0.8
4	☐	125.000	125.474	5814337.27	0.4160	A	0.1
5	☐	250.000	253.087	11566000.38	0.8390	A	1.7
6	☐	500.000	496.807	22311967.72	1.6470	A	0.5
7	☐	1000.000	1000.654	44243566.57	3.3172	A	1.4
8	☐			4861.03	0.0004	P	16.1

y = 0.0033 * x + 6.6599E-005
R = 1.0000
DL = 0.001016
BEC = 0.02009

Weight: <None>
Min Conc: 0

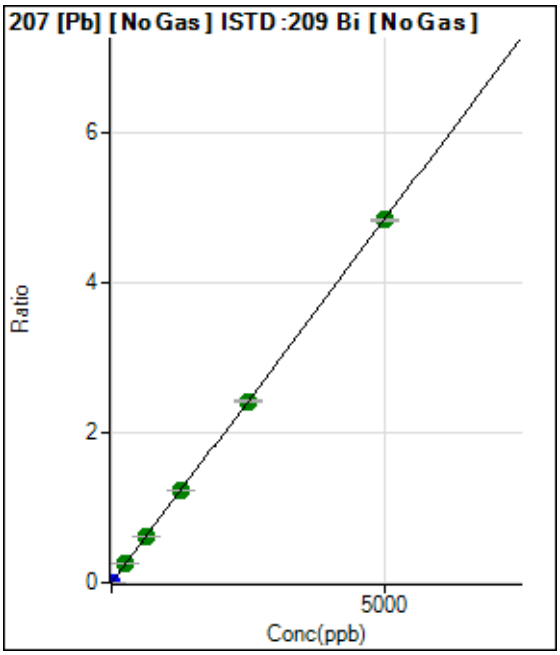


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1536.78	0.0001	P	8.0
2	☐	1.000	0.983	17362.83	0.0012	P	2.9
3	☐	250.000	262.492	4181875.53	0.2993	A	0.6
4	☐	625.000	626.595	9982149.58	0.7142	A	0.7
5	☐	1250.000	1260.798	19808897.48	1.4370	A	1.3
6	☐	2500.000	2481.981	38321944.70	2.8288	A	1.3
7	☐	5000.000	5005.486	76086671.09	5.7047	A	1.6
8	☐			19604.98	0.0017	P	3.3

y = 0.0011 * x + 1.0862E-004
R = 1.0000
DL = 0.02294
BEC = 0.09531

Weight: <None>
Min Conc: 0

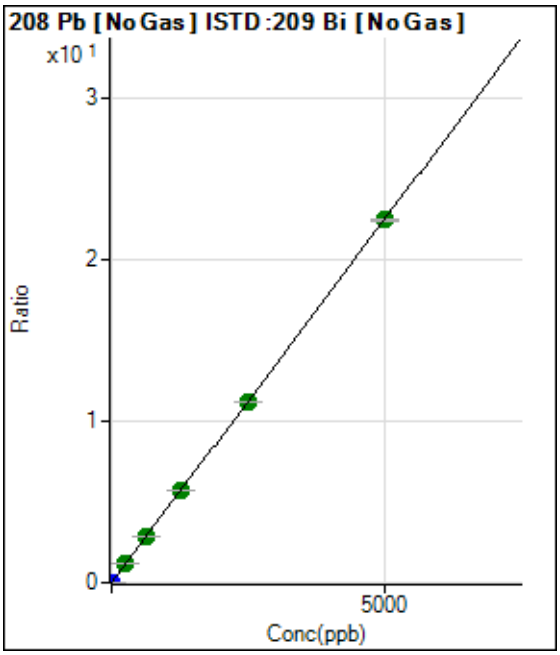
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1366.75	0.0001	P	0.3
2	☐	1.000	1.002	15117.80	0.0011	P	0.8
3	☐	250.000	265.497	3603353.52	0.2579	A	0.8
4	☐	625.000	636.083	8632811.33	0.6177	A	0.9
5	☐	1250.000	1273.193	17042213.91	1.2363	A	0.2
6	☐	2500.000	2498.090	32859653.12	2.4255	A	0.5
7	☐	5000.000	4992.997	64661607.37	4.8479	A	0.7
8	☐			16786.56	0.0015	P	6.1

y = 9.7092E-004 * x + 9.6602E-005
R = 1.0000
DL = 0.0008174
BEC = 0.0995

Weight: <None>
Min Conc: 0

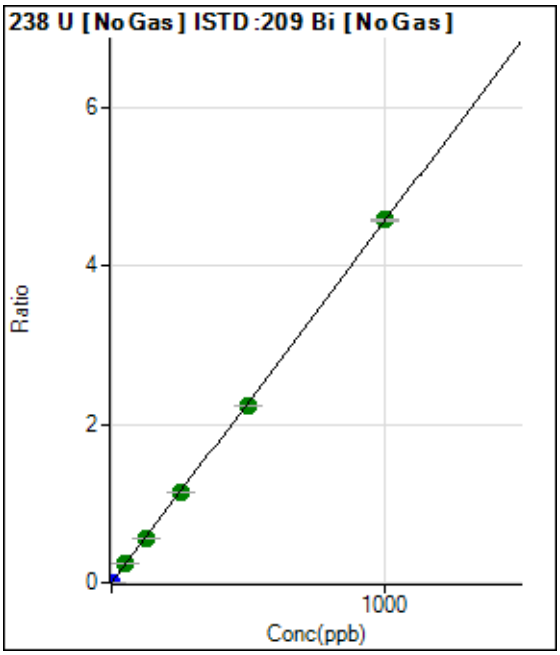


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6189.54	0.0004	P	1.6
2	☐	1.000	0.994	69298.43	0.0049	P	1.1
3	☐	250.000	262.378	16482717.53	1.1796	A	0.6
4	☐	625.000	634.531	39861235.17	2.8521	A	0.9
5	☐	1250.000	1270.246	78700425.22	5.7091	A	0.4
6	☐	2500.000	2495.977	151969126.0	11.2177	A	0.5
7	☐	5000.000	4995.140	299436140.5	22.4492	A	0.4
8	☐			77686.53	0.0068	P	4.4

y = 0.0045 * x + 4.3748E-004
R = 1.0000
DL = 0.004712
BEC = 0.09734

Weight: <None>
Min Conc: 0

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215.56	0.0000	P	20.9
2	☐	1.000	0.943	60917.59	0.0043	P	1.6
3	☐	50.000	51.856	3302146.48	0.2363	A	1.5
4	☐	125.000	123.517	7867269.05	0.5629	A	1.3
5	☐	250.000	249.902	15699992.68	1.1389	A	0.7
6	☐	500.000	490.384	30275906.77	2.2348	A	0.7
7	☐	1000.000	1004.925	61086659.64	4.5797	A	0.3
8	☐			3725.10	0.0003	P	6.6

y = 0.0046 * x + 1.5238E-005

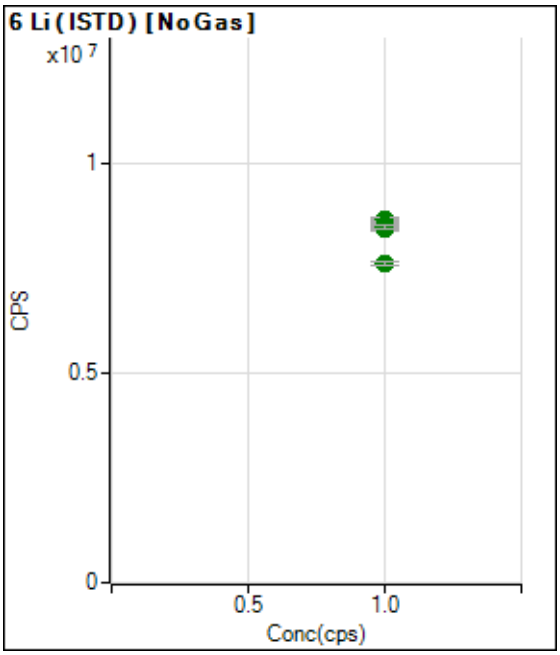
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DL = 0.002095

BEC = 0.003344

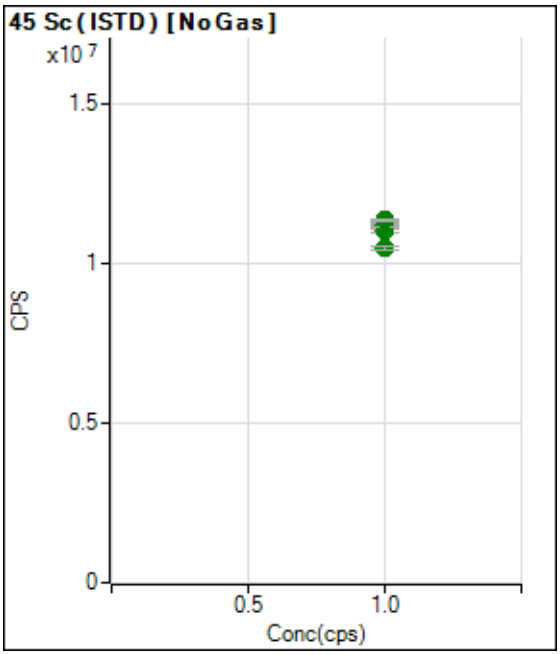
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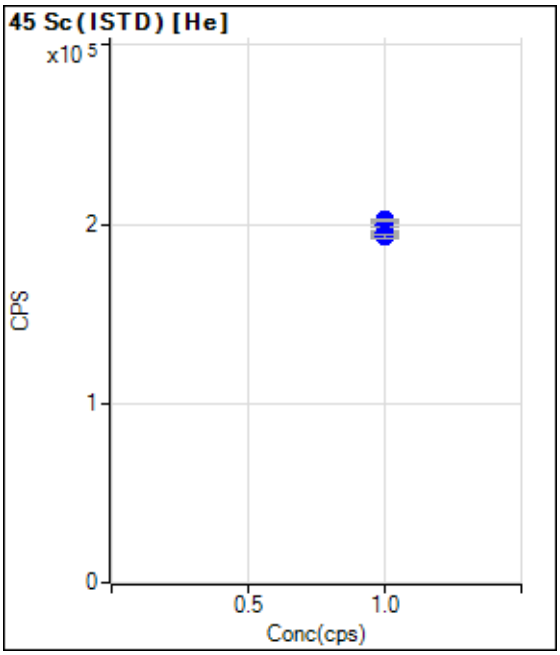


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8450103.75		A	1.7
2	☐	1.000		8532625.41		A	0.8
3	☐	1.000		8569750.98		A	1.4
4	☐	1.000		8643188.68		A	0.9
5	☐	1.000		8644757.23		A	1.2
6	☐	1.000		8501516.39		A	0.4
7	☐	1.000		8484064.61		A	1.0
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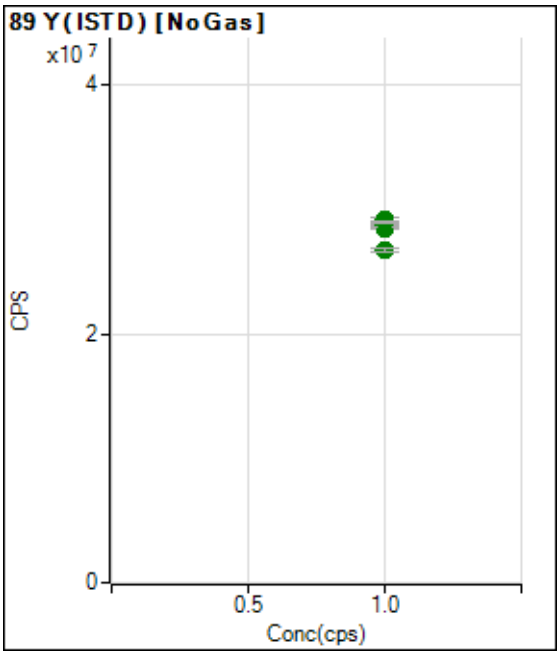


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1	☐	1.000		11013833.03		A	1.0
2	☐	1.000		11123467.61		A	0.6
3	☐	1.000		11223553.58		A	1.1
4	☐	1.000		11289914.28		A	1.2
5	☐	1.000		11312332.61		A	0.5
6	☐	1.000		11205046.50		A	1.2
7	☐	1.000		11377776.50		A	0.5
8	☐	1.000		10482385.19		A	0.8

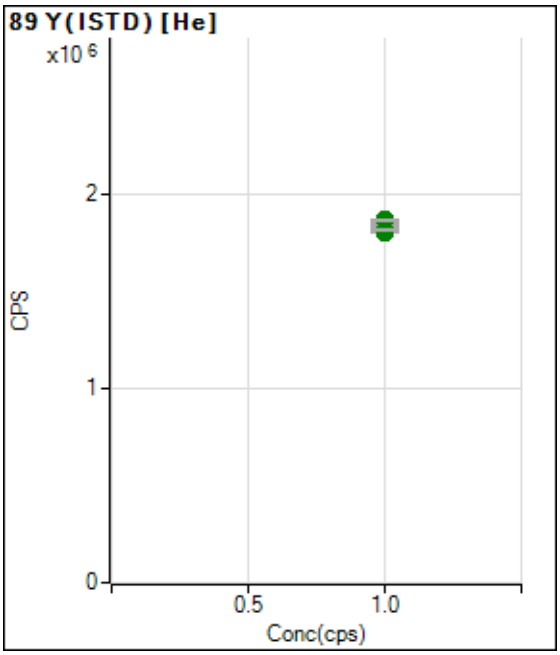


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		192709.90		P	0.3
2	☐	1.000		193333.97		P	1.1
3	☐	1.000		195319.51		P	0.6
4	☐	1.000		195082.98		P	1.1
5	☐	1.000		198506.95		P	0.3
6	☐	1.000		199158.09		P	0.9
7	☐	1.000		202324.01		P	0.8
8	☐	1.000		193334.07		P	1.0

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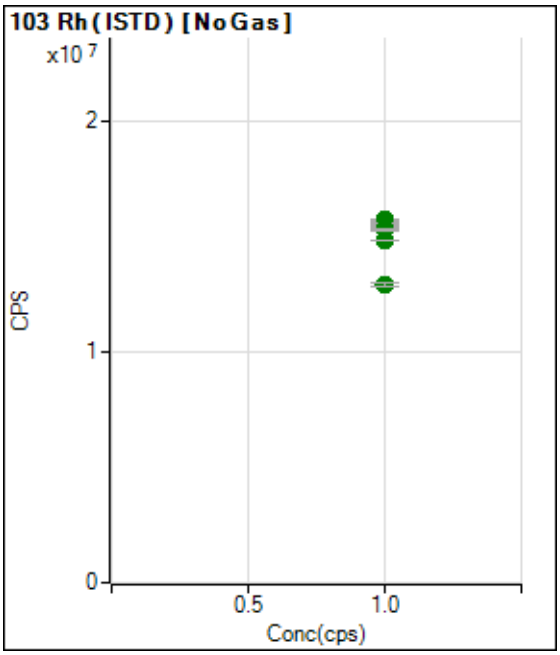


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1	☐	1.000		28602582.35		A	0.6
2	☐	1.000		28514832.63		A	0.6
3	☐	1.000		28609853.46		A	0.2
4	☐	1.000		29163102.62		A	1.1
5	☐	1.000		28880747.90		A	1.4
6	☐	1.000		28682594.02		A	1.1
7	☐	1.000		28983667.35		A	0.4
8	☐	1.000		26762436.83		A	0.9

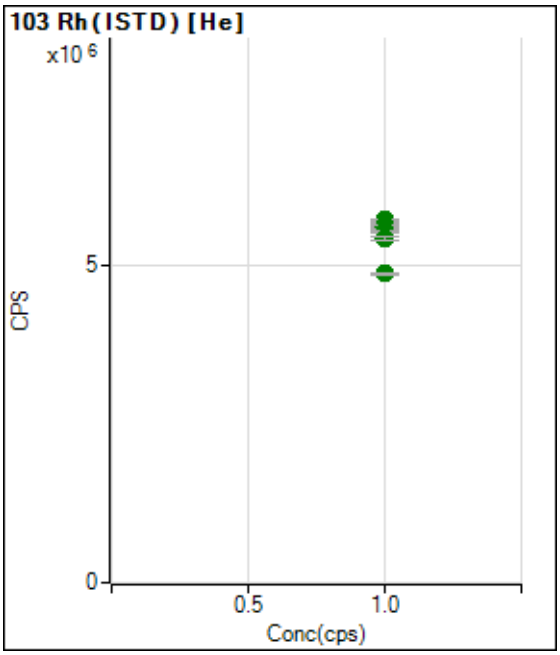


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1817584.02		A	1.1
2	☐	1.000		1813327.28		A	1.2
3	☐	1.000		1800966.60		A	0.2
4	☐	1.000		1822571.36		A	0.9
5	☐	1.000		1856417.96		A	1.0
6	☐	1.000		1837984.90		A	0.7
7	☐	1.000		1868376.27		A	0.6
8	☐	1.000		1815722.82		A	0.6

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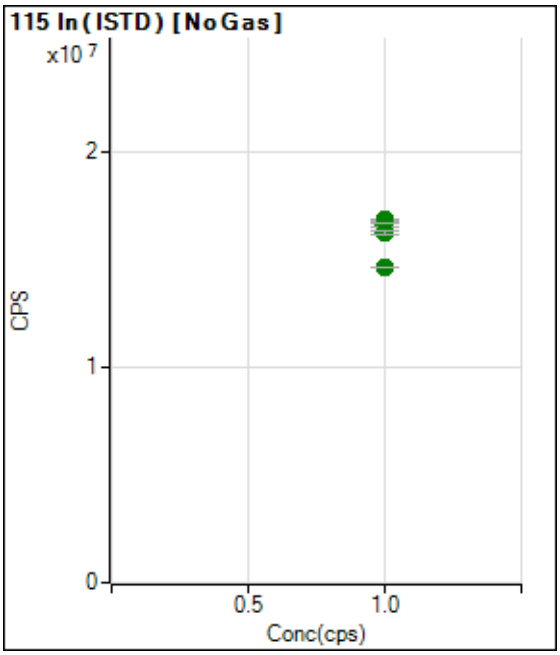


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1	☐	1.000		15731100.04		A	0.5
2	☐	1.000		15699342.68		A	1.2
3	☐	1.000		15648196.16		A	0.4
4	☐	1.000		15583812.41		A	0.6
5	☐	1.000		15380205.19		A	0.8
6	☐	1.000		15311934.63		A	0.7
7	☐	1.000		14832243.67		A	0.3
8	☐	1.000		12934589.53		A	1.3

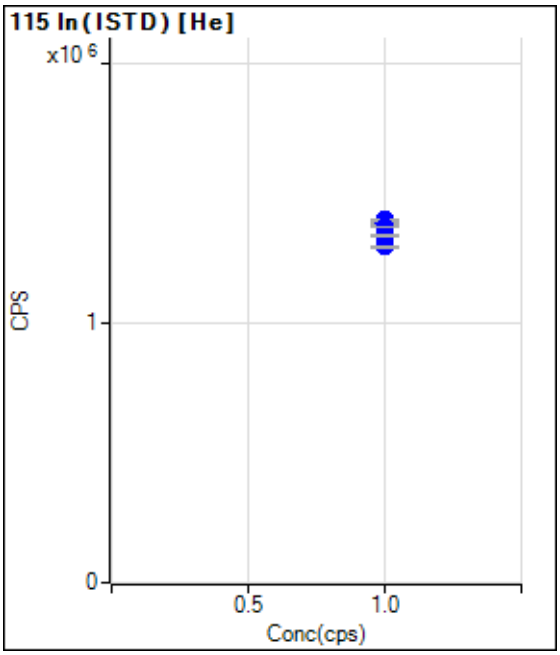


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5651177.28		A	1.0
2	☐	1.000		5716433.59		A	0.4
3	☐	1.000		5624800.54		A	1.0
4	☐	1.000		5603523.04		A	1.2
5	☐	1.000		5598622.21		A	0.9
6	☐	1.000		5530810.47		A	0.7
7	☐	1.000		5429965.20		A	1.0
8	☐	1.000		4865791.46		A	0.2

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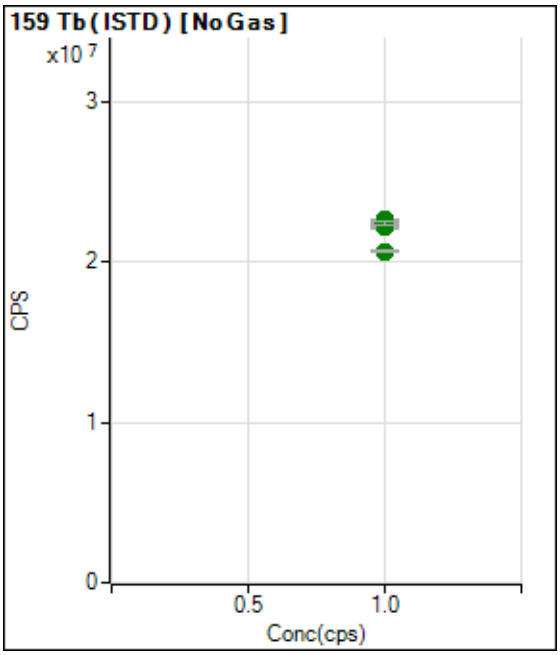


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1	☐	1.000		16790609.72		A	0.9
2	☐	1.000		16788579.04		A	0.9
3	☐	1.000		16841994.14		A	0.6
4	☐	1.000		16746707.57		A	0.6
5	☐	1.000		16765884.01		A	0.3
6	☐	1.000		16566118.66		A	1.0
7	☐	1.000		16230067.72		A	0.9
8	☐	1.000		14644802.76		A	0.3

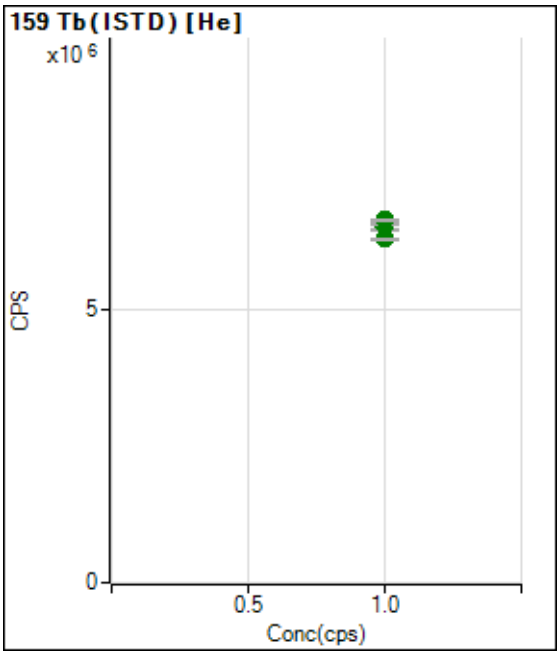


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1	☐	1.000		1378037.77		P	0.2
2	☐	1.000		1391630.68		P	0.8
3	☐	1.000		1395616.37		P	0.2
4	☐	1.000		1383778.43		P	1.9
5	☐	1.000		1394312.82		P	0.4
6	☐	1.000		1367002.72		P	0.3
7	☐	1.000		1331672.68		P	0.5
8	☐	1.000		1293848.04		P	0.7

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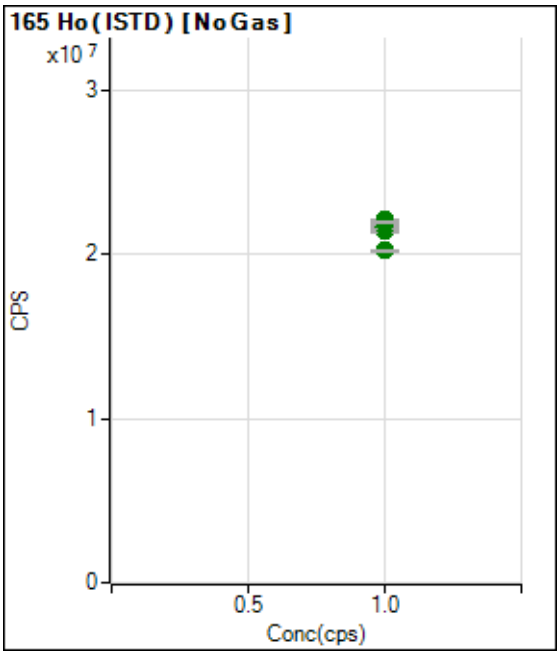


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		22344657.17		A	0.6
2	☐	1.000		22225810.50		A	0.6
3	☐	1.000		22279730.22		A	1.3
4	☐	1.000		22648460.50		A	0.3
5	☐	1.000		22600856.61		A	0.3
6	☐	1.000		22383158.00		A	0.3
7	☐	1.000		22490563.00		A	1.0
8	☐	1.000		20693133.72		A	0.7

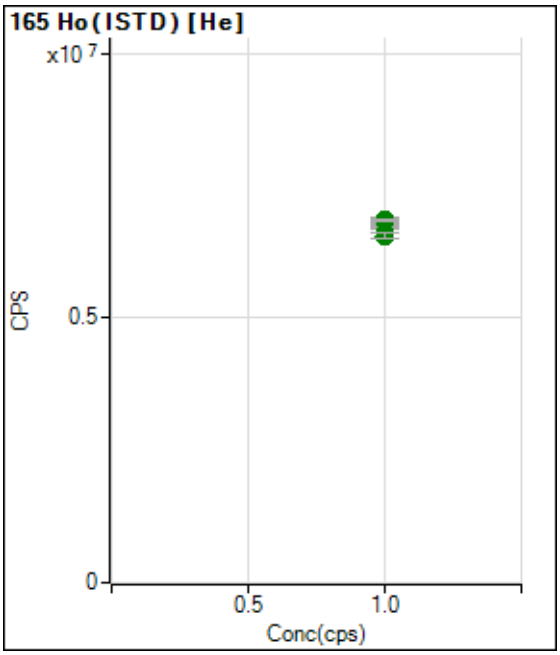


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6505630.88		A	0.6
2	☐	1.000		6513301.36		A	0.9
3	☐	1.000		6503666.22		A	0.9
4	☐	1.000		6518410.94		A	2.4
5	☐	1.000		6580979.28		A	0.3
6	☐	1.000		6548423.86		A	0.1
7	☐	1.000		6636035.25		A	0.7
8	☐	1.000		6280023.79		A	0.8

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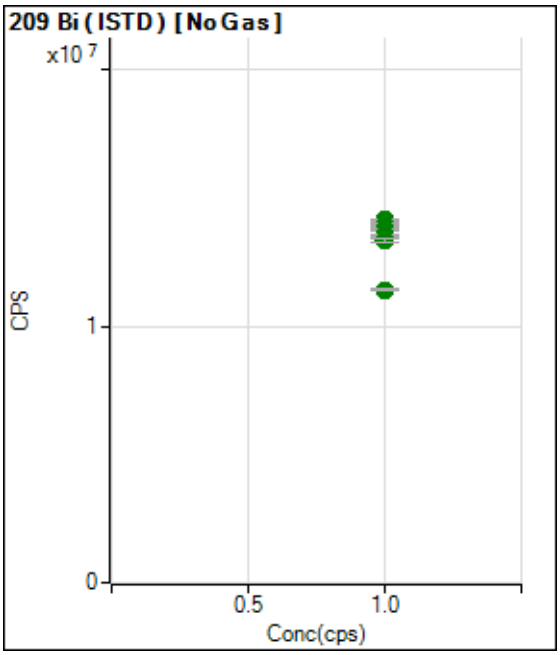


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2	☐	1.000		21537810.23		A	1.6
3	☐	1.000		21688718.01		A	0.7
4	☐	1.000		22112049.95		A	0.3
5	☐	1.000		21952748.84		A	0.2
6	☐	1.000		21899377.45		A	1.1
7	☐	1.000		21960811.34		A	0.6
8	☐	1.000		20236554.84		A	0.8

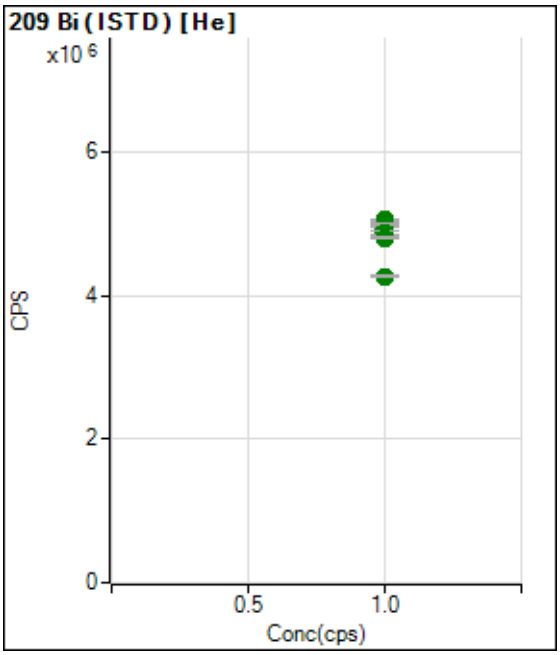


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2	☐	1.000		6781660.11		A	0.7
3	☐	1.000		6741152.05		A	0.2
4	☐	1.000		6772596.70		A	1.7
5	☐	1.000		6846797.26		A	1.1
6	☐	1.000		6827611.50		A	0.7
7	☐	1.000		6849746.63		A	0.4
8	☐	1.000		6551602.47		A	1.2

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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14148382.43		A	0.4
2	☐	1.000		14130844.51		A	0.8
3	☐	1.000		13973751.46		A	1.1
4	☐	1.000		13976455.35		A	0.4
5	☐	1.000		13785250.21		A	0.4
6	☐	1.000		13547236.19		A	0.2
7	☐	1.000		13338779.66		A	1.2
8	☐	1.000		11427968.16		A	1.0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5063835.76		A	0.6
2	☐	1.000		5037343.61		A	0.3
3	☐	1.000		5020700.66		A	0.5
4	☐	1.000		4946697.50		A	1.2
5	☐	1.000		5013236.59		A	0.7
6	☐	1.000		4884008.71		A	0.6
7	☐	1.000		4813021.42		A	0.4
8	☐	1.000		4269512.82		A	0.7

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8
ClientSampleId :TUNE007

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8021325MS.b
Acq. Date-Time	2025-02-13 11:12:41
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		38305	383054.75			0.476	5.000
24		365201	3652007.51			0.475	5.000
25		48051	480514.05			0.205	5.000
26		54753	547527.68			0.191	5.000
59		204003	2040034.67			0.311	5.000
113		23566	235658.76			0.331	5.000
115		317976	3179764.45			0.301	5.000
206		75631	756312.95			0.441	5.000
207		65988	659883.98			0.466	5.000
208		165839	1658390.01			0.775	5.000
220		0	4.00			44.194	

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	38486	38380	38040	38420	38201
24	364575	367369	366491	364585	362983
25	48193	48055	48016	48072	47921
26	54581	54850	54772	54817	54744
59	204488	203561	203557	204876	203535
113	23634	23596	23507	23631	23461
115	316367	318364	318757	318518	317876
206	75097	75941	75643	75595	75881
207	65482	66120	66302	65969	66069
208	164805	165190	166954	167486	164760

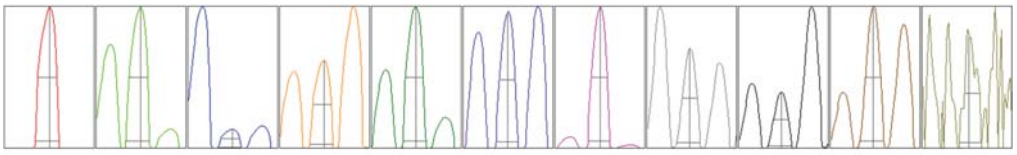
Reviewed By:kareem
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Inst Id :P8
ClientSampleId :TUNE007

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	65292.39	9.05	8.90 - 9.10	
24	621277.19	24.00	23.90 - 24.10	
25	82577.53	25.00	24.90 - 25.10	
26	94537.41	26.00	25.90 - 26.10	
59	368945.23	59.00	58.90 - 59.10	
113	46652.25	113.00	112.90 - 113.10	
115	625617.72	115.05	114.90 - 115.10	
206	151416.29	205.95	205.90 - 206.10	
207	129560.42	206.95	206.90 - 207.10	
208	327143.20	207.95	207.90 - 208.10	
220	0.70	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.788	0.900	
24	0.63	0.788	0.900	
25	0.63	0.779	0.900	
26	0.62	0.782	0.900	
59	0.58	0.776	0.900	
113	0.52	0.731	0.900	
115	0.53	0.733	0.900	
206	0.50	0.781	0.900	
207	0.50	0.788	0.900	
208	0.51	0.799	0.900	
220	0.53	0.738		

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:2/18/2025 11:55:14 AM
Inst Id :P8
ClientSampleId :TUNE007

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	8.4 V	Deflect	14.2 V
Extract 2	-200.0 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	0.9960	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	1.5 mm		

EM

Discriminator	4.2 mV	Analog HV	2182 V	Pulse HV	1093 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		35660	356599.48			0.302	
89		34221	342209.61			0.645	
205		38840	388402.88			0.580	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	35815	35557	35672	35698	35558
89	34465	34303	34348	34066	33923
205	38771	39053	39048	38820	38509

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	8.4 V	Deflect	3.0 V

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8
ClientSampleId :TUNE007

US EPA Tune Check Report

Extract 2	-200.0 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	0.9960	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	1.5 mm

EM

Discriminator	4.2 mV	Analog HV	2182 V	Pulse HV	1093 V

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.02	-0.36	0.37	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	-0.01	0.02	-0.01	0.00	N/A	ppb
Barium	135-1	0.00	0.01	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.01	0.00	N/A	ppb
Beryllium	9-1	0.00	0.01	-0.01	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.02	-0.03	0.01	0.00	N/A	ppb
Cadmium	106-1	-0.28	0.16	0.13	0.00	N/A	ppb
Cadmium	111-1	-0.02	0.01	0.01	0.00	N/A	ppb
Calcium	43-1	0.79	-0.67	-0.13	0.00	N/A	ppb
Calcium	44-1	0.08	-0.05	-0.03	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	-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	0.02	-0.03	0.01	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	0.00	0.13	-0.12	0.00	N/A	ppb
Iron	56-2	-0.03	-0.02	0.05	0.00	N/A	ppb
Iron	57-2	0.15	0.19	-0.35	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	-0.01	0.01	0.00	0.00	N/A	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	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	0.02	0.14	-0.15	0.00	N/A	ppb
Manganese	55-2	0.00	-0.02	0.02	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	97-1	0.00	0.01	-0.01	0.00	N/A	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.02	0.03	0.00	N/A	ppb
Phosphorus	31-2	-9.04	-16.32	-8.90	-11.42		ppb
Potassium	39-2	-0.59	-0.16	0.75	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.04	0.14	-0.10	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.50	0.26	0.24	0.00	N/A	ppb
Silicon	28-1	-0.16	0.29	-0.13	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-0.22	-0.65	0.87	0.00	N/A	ppb
Strontium	86-1	0.00	-0.01	0.01	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	50.51	198.12	18.75	89.12	107.40	ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	0.01	0.00	0.00	N/A	ppb
Titanium	47-1	0.01	-0.01	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:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	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	0.04	-0.05	0.01	0.00	N/A	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	23.73	21.15	20.63	21.84	7.60	ppb
Antimony	121-1	2.07	2.06	2.11	2.08	1.29	ppb
Arsenic	75-2	1.08	1.07	1.20	1.12	6.68	ppb
Barium	135-1	10.09	9.90	10.31	10.10	2.04	ppb
Barium	137-1	10.29	10.27	10.35	10.30	0.41	ppb
Beryllium	9-1	1.06	1.09	1.10	1.08	1.98	ppb
Bismuth	209-1				100		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.29	1.13	0.91	1.11	17.07	ppb
Cadmium	106-1	0.22	0.98	0.37	0.52	77.20	ppb
Cadmium	111-1	1.04	1.08	0.98	1.03	5.15	ppb
Calcium	43-1	546.64	536.02	541.70	541.45	0.98	ppb
Calcium	44-1	545.98	545.16	545.82	545.65	0.08	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.08	2.06	2.10	2.08	0.92	ppb
Cobalt	59-2	1.16	1.17	1.16	1.16	0.28	ppb
Copper	63-2	2.24	2.19	2.17	2.20	1.69	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	54-2	58.53	55.52	57.36	57.14	2.65	ppb
Iron	56-2	56.15	55.44	54.89	55.49	1.14	ppb
Iron	57-2	58.66	59.17	59.54	59.12	0.75	ppb
Krypton	83-1						cps
Lead	206-1	0.95	1.01	0.99	0.98	3.15	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.00	1.01	1.00	1.00	0.83	ppb
Lead	208-1	0.98	1.00	1.00	0.99	1.24	ppb
Lithium	6-1				101		%
Magnesium	24-2	557.56	543.87	539.64	547.02	1.71	ppb
Manganese	55-2	1.16	1.18	1.01	1.12	8.07	ppb
Molybdenum	94-1	6.07	6.00	6.17	6.08	1.40	ppb
Molybdenum	95-1	5.10	4.98	5.09	5.06	1.31	ppb
Molybdenum	96-1	5.10	5.08	5.20	5.12	1.28	ppb
Molybdenum	97-1	5.07	4.99	5.12	5.06	1.32	ppb
Molybdenum	98-1	5.10	5.03	5.00	5.05	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.01	1.07	0.91	1.00	7.98	ppb
Phosphorus	31-2	7.99	8.20	18.06	11.42	50.41	ppb
Potassium	39-2	505.78	507.47	499.11	504.12	0.88	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				101		%
Scandium	45-2				100		%
Selenium	82-1	4.98	5.84	5.48	5.43	7.95	ppb
Selenium	77-2	9.35	6.74	6.03	7.37	23.69	ppb
Selenium	78-2	6.49	4.94	6.08	5.84	13.74	ppb
Silicon	28-1	5.24	4.98	4.29	4.84	10.15	ppb
Silver	107-1	1.01	1.04	1.03	1.03	1.48	ppb
Silver	109-1	1.03	1.03	1.04	1.03	0.61	ppb
Sodium	23-2	562.22	552.25	546.64	553.70	1.42	ppb
Strontium	86-1	1.06	1.03	1.03	1.04	1.83	ppb
Strontium	88-1	1.05	1.03	1.03	1.03	1.04	ppb
Sulfur	34-1	-22.15	-51.65	-193.57	-89.12		ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.95	1.00	0.98	0.97	2.40	ppb
Thallium	205-1	0.99	0.99	0.99	0.99	0.37	ppb
Tin	118-1	5.35	5.23	5.27	5.28	1.19	ppb
Titanium	47-1	5.14	5.08	5.14	5.12	0.71	ppb
Uranium	238-1	0.93	0.94	0.96	0.94	1.64	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.38	5.23	5.09	5.23	2.76	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	5.82	5.39	5.50	5.57	3.99	ppb
Zirconium	90-1	1.01	1.01	1.01	1.01	0.35	ppb
Zirconium	91-1	0.98	0.98	1.02	1.00	2.59	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1028.51	1051.36	1052.10	1043.99	1.28	ppb
Antimony	121-1	51.20	51.15	50.07	50.80	1.25	ppb
Arsenic	75-2	51.59	52.05	52.99	52.21	1.36	ppb
Barium	135-1	250.63	249.26	247.13	249.01	0.71	ppb
Barium	137-1	262.93	267.67	260.03	263.54	1.46	ppb
Beryllium	9-1	51.50	52.70	52.30	52.17	1.17	ppb
Bismuth	209-1				99		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	54.27	55.64	53.94	54.62	1.65	ppb
Cadmium	106-1	54.40	54.64	53.26	54.10	1.37	ppb
Cadmium	111-1	52.57	51.98	50.91	51.82	1.62	ppb
Calcium	43-1	5209.50	5273.55	5345.75	5276.27	1.29	ppb
Calcium	44-1	5383.37	5399.89	5446.86	5410.04	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.70	50.82	50.62	50.38	1.19	ppb
Cobalt	59-2	52.71	52.68	52.69	52.69	0.03	ppb
Copper	63-2	561.48	564.81	571.86	566.05	0.94	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				101		%
Holmium	165-2				101		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	54-2	2718.99	2741.31	2728.17	2729.49	0.41	ppb
Iron	56-2	2739.96	2813.25	2790.21	2781.14	1.35	ppb
Iron	57-2	2687.04	2684.58	2708.87	2693.50	0.50	ppb
Krypton	83-1						cps
Lead	206-1	264.05	260.83	262.59	262.49	0.61	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	263.10	267.03	266.36	265.50	0.79	ppb
Lead	208-1	260.61	262.68	263.85	262.38	0.63	ppb
Lithium	6-1				101		%
Magnesium	24-2	5585.03	5538.42	5664.49	5595.98	1.14	ppb
Manganese	55-2	512.19	518.86	514.75	515.27	0.65	ppb
Molybdenum	94-1	525.09	529.91	522.81	525.94	0.69	ppb
Molybdenum	95-1	521.75	530.97	520.57	524.43	1.09	ppb
Molybdenum	96-1	527.25	529.99	526.26	527.83	0.37	ppb
Molybdenum	97-1	528.42	531.75	533.40	531.19	0.48	ppb
Molybdenum	98-1	524.77	526.52	520.67	523.99	0.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	53.00	53.35	54.27	53.54	1.23	ppb
Phosphorus	31-2	1028.87	1019.85	1044.53	1031.08	1.21	ppb
Potassium	39-2	2488.89	2502.62	2500.45	2497.32	0.30	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	52.42	53.26	55.11	53.60	2.57	ppb
Selenium	77-2	52.13	57.51	53.19	54.28	5.25	ppb
Selenium	78-2	57.75	55.49	48.39	53.88	9.06	ppb
Silicon	28-1	46.32	48.16	48.36	47.61	2.37	ppb
Silver	107-1	52.82	52.25	52.05	52.37	0.76	ppb
Silver	109-1	53.06	52.55	51.90	52.50	1.11	ppb
Sodium	23-2	5688.03	5710.61	5632.40	5677.01	0.71	ppb
Strontium	86-1	49.55	50.18	50.61	50.11	1.06	ppb
Strontium	88-1	53.14	53.25	52.73	53.04	0.52	ppb
Sulfur	34-1	830.90	891.94	835.38	852.74	3.99	ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	48.45	48.88	50.08	49.14	1.72	ppb
Thallium	205-1	52.19	52.67	51.81	52.22	0.83	ppb
Tin	118-1	51.49	51.30	50.34	51.04	1.21	ppb
Titanium	47-1	519.51	515.53	531.70	522.25	1.61	ppb
Uranium	238-1	51.27	51.59	52.71	51.86	1.46	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	49.50	50.38	51.04	50.31	1.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				99		%
Zinc	66-2	526.20	527.44	532.50	528.71	0.63	ppb
Zirconium	90-1	52.08	53.44	52.77	52.76	1.28	ppb
Zirconium	91-1	48.57	49.49	49.41	49.16	1.03	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2513.97	2544.70	2616.10	2558.26	2.05	ppb
Antimony	121-1	129.66	131.09	129.97	130.24	0.58	ppb
Arsenic	75-2	130.25	129.37	129.20	129.61	0.44	ppb
Barium	135-1	643.82	644.26	648.99	645.69	0.44	ppb
Barium	137-1	636.48	639.49	650.03	642.00	1.11	ppb
Beryllium	9-1	125.23	126.01	125.35	125.53	0.34	ppb
Bismuth	209-1				99		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	128.96	128.00	129.95	128.97	0.76	ppb
Cadmium	106-1	129.51	127.82	132.23	129.85	1.72	ppb
Cadmium	111-1	122.09	124.69	123.53	123.44	1.05	ppb
Calcium	43-1	12933.99	12953.50	12688.31	12858.60	1.15	ppb
Calcium	44-1	13249.05	13269.55	12993.46	13170.69	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	121.88	123.49	125.25	123.54	1.36	ppb
Cobalt	59-2	127.32	128.39	129.92	128.54	1.02	ppb
Copper	63-2	1409.74	1423.58	1438.38	1423.90	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				101		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	6602.85	6663.81	6754.43	6673.70	1.14	ppb
Iron	56-2	6695.21	6705.65	6856.96	6752.60	1.34	ppb
Iron	57-2	6493.72	6526.94	6624.54	6548.40	1.04	ppb
Krypton	83-1						cps
Lead	206-1	625.63	631.68	622.48	626.60	0.75	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	630.30	641.53	636.42	636.08	0.88	ppb
Lead	208-1	629.00	639.99	634.60	634.53	0.87	ppb
Lithium	6-1				102		%
Magnesium	24-2	13482.93	13393.55	13664.98	13513.82	1.02	ppb
Manganese	55-2	1291.25	1364.81	1319.18	1325.08	2.80	ppb
Molybdenum	94-1	1264.41	1225.60	1275.97	1255.32	2.10	ppb
Molybdenum	95-1	1257.84	1254.94	1280.31	1264.36	1.10	ppb
Molybdenum	96-1	1252.49	1253.69	1284.72	1263.63	1.45	ppb
Molybdenum	97-1	1241.96	1237.73	1278.71	1252.80	1.80	ppb
Molybdenum	98-1	1249.95	1233.91	1285.95	1256.60	2.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	136.01	137.49	139.54	137.68	1.29	ppb
Phosphorus	31-2	2606.68	2640.20	2517.13	2588.00	2.46	ppb
Potassium	39-2	6042.15	6112.24	6196.77	6117.05	1.27	ppb
Rhodium	103-1				99		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	127.82	126.43	127.35	127.20	0.56	ppb
Selenium	77-2	123.42	125.70	135.36	128.16	4.95	ppb
Selenium	78-2	132.29	131.96	131.06	131.77	0.48	ppb
Silicon	28-1	119.39	118.44	117.07	118.30	0.99	ppb
Silver	107-1	132.75	132.37	133.26	132.79	0.33	ppb
Silver	109-1	131.69	133.70	132.46	132.62	0.76	ppb
Sodium	23-2	13635.75	13473.26	13890.40	13666.47	1.54	ppb
Strontium	86-1	119.15	119.57	120.74	119.82	0.69	ppb
Strontium	88-1	126.17	126.31	127.46	126.65	0.56	ppb
Sulfur	34-1	2576.77	2761.48	2179.43	2505.89	11.87	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	126.04	126.31	127.54	126.63	0.63	ppb
Thallium	205-1	125.53	125.37	125.52	125.47	0.07	ppb
Tin	118-1	128.12	129.47	129.41	129.00	0.59	ppb
Titanium	47-1	1284.29	1266.16	1245.25	1265.23	1.54	ppb
Uranium	238-1	121.83	125.05	123.66	123.52	1.31	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	122.18	123.74	126.68	124.20	1.84	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	1284.09	1286.83	1302.90	1291.27	0.79	ppb
Zirconium	90-1	125.51	123.53	128.53	125.86	2.00	ppb
Zirconium	91-1	118.15	117.59	121.11	118.95	1.59	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5006.31	5092.38	5073.19	5057.29	0.89	ppb
Antimony	121-1	257.08	261.37	255.97	258.14	1.11	ppb
Arsenic	75-2	253.24	258.65	258.36	256.75	1.18	ppb
Barium	135-1	1264.53	1292.18	1266.29	1274.33	1.21	ppb
Barium	137-1	1280.44	1281.12	1266.18	1275.92	0.66	ppb
Beryllium	9-1	260.50	252.91	262.63	258.68	1.98	ppb
Bismuth	209-1				97		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	257.94	262.79	255.80	258.84	1.38	ppb
Cadmium	106-1	259.71	260.31	259.75	259.92	0.13	ppb
Cadmium	111-1	243.58	246.91	246.43	245.64	0.73	ppb
Calcium	43-1	26889.22	26532.37	27000.64	26807.41	0.91	ppb
Calcium	44-1	26565.12	26229.16	26239.48	26344.59	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	244.50	246.23	244.10	244.94	0.46	ppb
Cobalt	59-2	263.85	265.99	266.86	265.57	0.58	ppb
Copper	63-2	2635.40	2645.48	2640.81	2640.56	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				102		%
Indium	115-1				100		%
Indium	115-2				101		%
Iron	54-2	13798.81	14032.94	13670.37	13834.04	1.33	ppb
Iron	56-2	13330.02	13528.31	13461.18	13439.84	0.75	ppb
Iron	57-2	12813.79	12858.70	12940.64	12871.04	0.50	ppb
Krypton	83-1						cps
Lead	206-1	1246.41	1278.01	1257.97	1260.80	1.27	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1274.22	1275.05	1270.31	1273.19	0.20	ppb
Lead	208-1	1265.87	1274.90	1269.97	1270.25	0.36	ppb
Lithium	6-1				102		%
Magnesium	24-2	25905.88	26951.48	26542.79	26466.72	1.99	ppb
Manganese	55-2	2614.08	2634.32	2639.40	2629.26	0.51	ppb
Molybdenum	94-1	2539.72	2551.01	2582.58	2557.77	0.87	ppb
Molybdenum	95-1	2529.86	2534.90	2608.49	2557.75	1.72	ppb
Molybdenum	96-1	2513.96	2508.36	2623.13	2548.49	2.54	ppb
Molybdenum	97-1	2521.30	2485.69	2592.84	2533.28	2.15	ppb
Molybdenum	98-1	2525.43	2489.87	2585.98	2533.76	1.92	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	253.19	255.80	252.29	253.76	0.72	ppb
Phosphorus	31-2	4863.47	5102.72	5123.51	5029.90	2.87	ppb
Potassium	39-2	12936.97	12516.14	12765.39	12739.50	1.66	ppb
Rhodium	103-1				98		%
Rhodium	103-2				99		%
Scandium	45-1				103		%
Scandium	45-2				103		%
Selenium	82-1	253.19	256.33	261.89	257.14	1.71	ppb
Selenium	77-2	259.93	244.32	267.39	257.21	4.58	ppb
Selenium	78-2	256.74	253.80	268.05	259.53	2.90	ppb
Silicon	28-1	236.25	235.09	230.93	234.09	1.19	ppb
Silver	107-1	260.44	266.70	260.44	262.53	1.38	ppb
Silver	109-1	263.87	264.44	258.05	262.12	1.35	ppb
Sodium	23-2	27029.34	27519.01	27423.57	27323.97	0.95	ppb
Strontium	86-1	257.58	251.38	256.15	255.03	1.27	ppb
Strontium	88-1	249.88	253.67	258.28	253.94	1.65	ppb
Sulfur	34-1	5090.75	4782.40	5119.78	4997.65	3.74	ppb
Terbium	159-1				101		%
Terbium	159-2				101		%
Thallium	203-1	253.75	257.84	251.44	254.34	1.27	ppb
Thallium	205-1	252.88	257.39	248.99	253.09	1.66	ppb
Tin	118-1	254.80	258.14	254.82	255.92	0.75	ppb
Titanium	47-1	2530.59	2505.30	2517.68	2517.86	0.50	ppb
Uranium	238-1	249.03	248.66	252.02	249.90	0.74	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	245.07	246.87	247.82	246.58	0.57	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	2515.09	2528.62	2520.14	2521.28	0.27	ppb
Zirconium	90-1	251.60	252.66	255.03	253.10	0.69	ppb
Zirconium	91-1	256.91	256.86	262.64	258.80	1.28	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9879.68	9835.09	9784.33	9833.03	0.49	ppb
Antimony	121-1	502.41	500.35	504.57	502.44	0.42	ppb
Arsenic	75-2	508.46	503.68	510.28	507.47	0.67	ppb
Barium	135-1	2502.90	2491.71	2506.97	2500.52	0.32	ppb
Barium	137-1	2559.23	2523.33	2488.65	2523.74	1.40	ppb
Beryllium	9-1	504.85	509.81	507.82	507.49	0.49	ppb
Bismuth	209-1				96		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	505.84	511.58	507.70	508.37	0.58	ppb
Cadmium	106-1	508.40	500.81	509.35	506.18	0.92	ppb
Cadmium	111-1	505.55	509.91	519.53	511.66	1.40	ppb
Calcium	43-1	52339.46	52170.99	52525.62	52345.36	0.34	ppb
Calcium	44-1	51644.71	51633.33	52341.92	51873.32	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	505.57	511.62	512.93	510.04	0.77	ppb
Cobalt	59-2	517.23	509.71	501.47	509.47	1.55	ppb
Copper	63-2	5119.57	5182.76	5056.41	5119.58	1.23	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				102		%
Indium	115-1				99		%
Indium	115-2				99		%
Iron	54-2	27084.67	26870.53	26260.30	26738.50	1.60	ppb
Iron	56-2	25953.77	26177.14	26360.72	26163.88	0.78	ppb
Iron	57-2	26727.16	26246.58	26468.48	26480.74	0.91	ppb
Krypton	83-1						cps
Lead	206-1	2507.07	2444.45	2494.43	2481.98	1.33	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2486.02	2497.39	2510.85	2498.09	0.50	ppb
Lead	208-1	2493.98	2485.43	2508.52	2495.98	0.47	ppb
Lithium	6-1				101		%
Magnesium	24-2	51998.57	52078.09	51738.74	51938.46	0.34	ppb
Manganese	55-2	5019.99	4989.60	5049.01	5019.53	0.59	ppb
Molybdenum	94-1	4973.14	5025.31	5073.79	5024.08	1.00	ppb
Molybdenum	95-1	4993.78	5004.51	5053.26	5017.18	0.63	ppb
Molybdenum	96-1	5025.16	5116.71	5063.55	5068.47	0.91	ppb
Molybdenum	97-1	4961.76	5054.40	5151.51	5055.89	1.88	ppb
Molybdenum	98-1	4930.01	4993.65	5166.02	5029.90	2.43	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	484.14	485.88	477.45	482.49	0.92	ppb
Phosphorus	31-2	10250.09	10199.97	9969.28	10139.78	1.48	ppb
Potassium	39-2	25024.17	24569.69	24370.98	24654.95	1.36	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	501.46	512.96	513.17	509.20	1.32	ppb
Selenium	77-2	471.15	527.33	518.53	505.67	5.97	ppb
Selenium	78-2	507.31	523.24	525.31	518.62	1.90	ppb
Silicon	28-1	471.74	461.21	466.19	466.38	1.13	ppb
Silver	107-1	514.12	502.81	506.09	507.67	1.15	ppb
Silver	109-1	510.23	503.32	509.04	507.53	0.73	ppb
Sodium	23-2	53289.91	53026.25	53580.57	53298.91	0.52	ppb
Strontium	86-1	498.74	495.59	502.64	498.99	0.71	ppb
Strontium	88-1	498.27	503.91	505.70	502.63	0.77	ppb
Sulfur	34-1	10331.60	9645.05	10262.98	10079.88	3.75	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	491.55	496.94	494.17	494.22	0.55	ppb
Thallium	205-1	494.60	496.64	499.17	496.81	0.46	ppb
Tin	118-1	512.55	509.69	492.36	504.87	2.16	ppb
Titanium	47-1	5082.97	5008.02	5103.84	5064.94	0.99	ppb
Uranium	238-1	492.12	486.64	492.39	490.38	0.66	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	508.92	500.27	502.89	504.03	0.88	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	5137.21	5231.96	5108.97	5159.38	1.25	ppb
Zirconium	90-1	495.93	494.97	504.25	498.38	1.02	ppb
Zirconium	91-1	503.77	503.44	506.50	504.57	0.33	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20016.71	20361.11	20234.08	20203.97	0.86	ppb
Antimony	121-1	997.26	988.27	1002.62	996.05	0.73	ppb
Arsenic	75-2	988.43	995.66	997.58	993.89	0.49	ppb
Barium	135-1	4961.65	4964.89	5046.81	4991.12	0.97	ppb
Barium	137-1	4929.18	5021.56	4985.81	4978.85	0.94	ppb
Beryllium	9-1	981.42	984.89	1015.42	993.91	1.88	ppb
Bismuth	209-1				94		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	982.86	992.00	1003.76	992.87	1.06	ppb
Cadmium	106-1	974.77	1003.03	1003.05	993.62	1.64	ppb
Cadmium	111-1	986.47	994.01	1005.61	995.36	0.97	ppb
Calcium	43-1	103343.48	102891.93	104751.14	103662.18	0.94	ppb
Calcium	44-1	103104.86	101691.14	104100.53	102965.51	1.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1007.71	991.91	989.60	996.41	0.99	ppb
Cobalt	59-2	986.10	987.64	998.65	990.80	0.69	ppb
Copper	63-2	9886.09	9873.35	9880.65	9880.03	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				97		%
Indium	115-2				97		%
Iron	54-2	51441.34	52314.84	52753.48	52169.89	1.28	ppb
Iron	56-2	50747.99	51134.85	52277.99	51386.94	1.55	ppb
Iron	57-2	51097.20	51382.35	51793.42	51424.32	0.68	ppb
Krypton	83-1						cps
Lead	206-1	4921.39	5083.44	5011.64	5005.49	1.62	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4950.34	5018.70	5009.95	4993.00	0.75	ppb
Lead	208-1	4974.93	4994.85	5015.64	4995.14	0.41	ppb
Lithium	6-1				100		%
Magnesium	24-2	102181.49	100988.66	101447.06	101539.07	0.59	ppb
Manganese	55-2	9835.74	9962.01	10045.55	9947.77	1.06	ppb
Molybdenum	94-1	9944.12	10048.13	9922.41	9971.55	0.67	ppb
Molybdenum	95-1	9910.49	10215.04	9796.34	9973.96	2.17	ppb
Molybdenum	96-1	9823.74	10221.74	9806.16	9950.55	2.36	ppb
Molybdenum	97-1	9910.40	10111.30	9863.77	9961.83	1.32	ppb
Molybdenum	98-1	9961.78	10079.35	9882.63	9974.59	0.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	997.89	998.78	1021.49	1006.05	1.33	ppb
Phosphorus	31-2	19955.09	19728.40	20046.75	19910.08	0.82	ppb
Potassium	39-2	48581.72	48642.04	48468.61	48564.12	0.18	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				103		%
Scandium	45-2				105		%
Selenium	82-1	990.99	1000.26	988.23	993.16	0.63	ppb
Selenium	77-2	974.02	1018.23	991.96	994.74	2.24	ppb
Selenium	78-2	983.56	985.52	992.71	987.26	0.49	ppb
Silicon	28-1	1025.48	999.83	1040.08	1021.79	1.99	ppb
Silver	107-1	977.77	999.86	998.19	991.94	1.24	ppb
Silver	109-1	988.70	988.88	998.80	992.13	0.58	ppb
Sodium	23-2	103949.42	105035.00	105382.56	104788.99	0.71	ppb
Strontium	86-1	1001.74	999.21	998.71	999.89	0.16	ppb
Strontium	88-1	993.44	999.74	998.85	997.34	0.34	ppb
Sulfur	34-1	19942.21	20068.22	19891.40	19967.28	0.46	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	971.92	1017.52	1015.50	1001.64	2.57	ppb
Thallium	205-1	986.23	1013.03	1002.70	1000.65	1.35	ppb
Tin	118-1	991.82	991.30	1003.48	995.53	0.69	ppb
Titanium	47-1	10040.36	9846.83	9992.95	9960.05	1.01	ppb
Uranium	238-1	1001.31	1006.04	1007.42	1004.93	0.32	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	987.40	1002.06	1007.31	998.92	1.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				103		%
Zinc	66-2	9832.13	9932.35	9960.70	9908.40	0.68	ppb
Zirconium	90-1	997.31	1010.35	991.71	999.79	0.96	ppb
Zirconium	91-1	977.74	1022.16	989.03	996.31	2.32	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	100799.28	99626.32	99487.83	99971.14	0.72	ppb
Antimony	121-1	0.75	0.77	0.76	0.76	1.05	ppb
Arsenic	75-2	0.54	0.40	0.53	0.49	16.29	ppb
Barium	135-1	1.95	1.92	1.83	1.90	3.28	ppb
Barium	137-1	1.91	1.96	1.82	1.90	3.69	ppb
Beryllium	9-1	0.37	0.32	0.29	0.33	11.86	ppb
Bismuth	209-1				81		%
Bismuth	209-2				84		%
Bromine	81-1						cps
Cadmium	108-1	0.80	0.81	0.71	0.77	7.40	ppb
Cadmium	106-1	-0.09	-0.06	-0.25	-0.14		ppb
Cadmium	111-1	0.18	0.21	0.17	0.19	11.21	ppb
Calcium	43-1	504549.83	498456.42	493786.41	498930.89	1.08	ppb
Calcium	44-1	508816.33	489871.92	498706.03	499131.42	1.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.60	2.62	2.65	2.62	0.99	ppb
Cobalt	59-2	2.08	2.04	2.04	2.05	0.98	ppb
Copper	63-2	2.03	1.89	1.94	1.95	3.51	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				94		%
Holmium	165-2				98		%
Indium	115-1				87		%
Indium	115-2				94		%
Iron	54-2	252219.02	247076.24	248642.48	249312.58	1.06	ppb
Iron	56-2	252517.17	248971.28	247143.11	249543.85	1.09	ppb
Iron	57-2	254287.96	247734.50	246594.87	249539.11	1.66	ppb
Krypton	83-1						cps
Lead	206-1	1.41	1.46	1.36	1.41	3.50	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.38	1.52	1.34	1.41	6.53	ppb
Lead	208-1	1.42	1.48	1.35	1.42	4.67	ppb
Lithium	6-1				90		%
Magnesium	24-2	500080.28	501125.79	496974.89	499393.65	0.43	ppb
Manganese	55-2	4.83	4.59	4.48	4.63	3.89	ppb
Molybdenum	94-1	7.60	7.34	7.45	7.46	1.77	ppb
Molybdenum	95-1	5.47	5.34	5.35	5.39	1.29	ppb
Molybdenum	96-1	5.64	5.53	5.55	5.57	1.01	ppb
Molybdenum	97-1	5.31	5.09	5.07	5.16	2.61	ppb
Molybdenum	98-1	5.16	5.05	5.06	5.09	1.18	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.08	2.87	2.85	2.93	4.41	ppb
Phosphorus	31-2	-9.79	-11.26	-9.43	-10.16		ppb
Potassium	39-2	251536.95	249711.12	249691.07	250313.05	0.42	ppb
Rhodium	103-1				82		%
Rhodium	103-2				86		%
Scandium	45-1				95		%
Scandium	45-2				100		%
Selenium	82-1	0.02	-0.13	-0.20	-0.11		ppb
Selenium	77-2	0.85	1.70	0.84	1.13	43.60	ppb
Selenium	78-2	0.50	1.25	0.49	0.75	58.20	ppb
Silicon	28-1	16.38	14.68	14.39	15.15	7.10	ppb
Silver	107-1	0.19	0.17	0.17	0.18	4.95	ppb
Silver	109-1	0.18	0.18	0.17	0.17	2.31	ppb
Sodium	23-2	503395.56	496433.23	495851.60	498560.13	0.84	ppb
Strontium	86-1	3.05	2.94	3.08	3.02	2.51	ppb
Strontium	88-1	3.05	3.02	3.03	3.03	0.49	ppb
Sulfur	34-1	-495.74	-672.31	-712.69	-626.91		ppb
Terbium	159-1				93		%
Terbium	159-2				97		%
Thallium	203-1	0.12	0.10	0.08	0.10	21.38	ppb
Thallium	205-1	0.12	0.12	0.08	0.11	19.12	ppb
Tin	118-1	0.15	0.15	0.12	0.14	10.37	ppb
Titanium	47-1	2.45	2.44	2.66	2.52	4.98	ppb
Uranium	238-1	0.07	0.07	0.06	0.07	6.88	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.27	0.26	0.26	0.26	1.29	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				94		%
Yttrium	89-2				100		%
Zinc	66-2	5.56	5.32	5.09	5.32	4.37	ppb
Zirconium	90-1	1.66	1.66	1.66	1.66	0.25	ppb
Zirconium	91-1	1.65	1.60	1.66	1.64	2.10	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	482.48	485.69	480.46	482.87	0.55	ppb
Antimony	121-1	201.90	202.77	204.52	203.06	0.66	ppb
Arsenic	75-2	203.63	203.22	202.49	203.11	0.29	ppb
Barium	135-1	95.40	95.46	96.13	95.67	0.42	ppb
Barium	137-1	97.17	97.71	97.65	97.51	0.30	ppb
Beryllium	9-1	98.70	99.59	99.08	99.12	0.45	ppb
Bismuth	209-1				102		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	81.81	82.56	83.49	82.62	1.02	ppb
Cadmium	106-1	78.22	78.68	79.74	78.88	0.99	ppb
Cadmium	111-1	98.18	97.80	98.36	98.11	0.29	ppb
Calcium	43-1	1910.73	1968.48	1980.77	1953.33	1.91	ppb
Calcium	44-1	2038.09	2092.99	2047.73	2059.60	1.42	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	96.91	98.36	97.33	97.53	0.77	ppb
Cobalt	59-2	101.18	102.05	100.50	101.24	0.77	ppb
Copper	63-2	100.84	103.24	102.77	102.28	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				104		%
Holmium	165-2				107		%
Indium	115-1				107		%
Indium	115-2				112		%
Iron	54-2	2068.76	2097.62	2094.30	2086.89	0.76	ppb
Iron	56-2	2087.83	2108.07	2070.23	2088.71	0.91	ppb
Iron	57-2	1975.79	1993.63	1984.00	1984.47	0.45	ppb
Krypton	83-1						cps
Lead	206-1	208.09	201.61	204.58	204.76	1.58	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	201.92	196.59	194.73	197.75	1.89	ppb
Lead	208-1	202.31	197.92	198.72	199.65	1.17	ppb
Lithium	6-1				110		%
Magnesium	24-2	1092.42	1121.53	1103.72	1105.89	1.33	ppb
Manganese	55-2	95.85	96.37	96.84	96.35	0.51	ppb
Molybdenum	94-1	0.14	0.11	0.11	0.12	12.73	ppb
Molybdenum	95-1	0.04	0.04	0.05	0.04	3.64	ppb
Molybdenum	96-1	0.14	0.12	0.14	0.13	9.65	ppb
Molybdenum	97-1	0.06	0.04	0.05	0.05	21.21	ppb
Molybdenum	98-1	0.07	0.05	0.06	0.06	10.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	101.96	103.47	102.87	102.77	0.74	ppb
Phosphorus	31-2	-19.07	-22.53	-15.08	-18.89		ppb
Potassium	39-2	1845.31	1877.19	1874.16	1865.55	0.94	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				108		%
Scandium	45-2				110		%
Selenium	82-1	210.01	208.09	214.23	210.78	1.49	ppb
Selenium	77-2	208.20	213.54	230.41	217.38	5.33	ppb
Selenium	78-2	205.93	203.58	211.94	207.15	2.08	ppb
Silicon	28-1	0.76	0.71	1.03	0.84	20.87	ppb
Silver	107-1	47.03	47.37	47.43	47.28	0.46	ppb
Silver	109-1	47.69	47.36	47.57	47.54	0.35	ppb
Sodium	23-2	2120.53	2132.85	2121.50	2124.96	0.32	ppb
Strontium	86-1	0.19	0.21	0.21	0.20	4.83	ppb
Strontium	88-1	0.20	0.21	0.21	0.20	2.95	ppb
Sulfur	34-1	-1300.81	-1248.52	-1144.32	-1231.22		ppb
Terbium	159-1				104		%
Terbium	159-2				108		%
Thallium	203-1	205.21	200.43	200.15	201.93	1.41	ppb
Thallium	205-1	200.32	194.44	193.14	195.97	1.95	ppb
Tin	118-1	0.03	0.01	0.03	0.02	56.28	ppb
Titanium	47-1	0.01	0.02	0.02	0.02	15.73	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	94.86	96.24	94.69	95.27	0.89	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				109		%
Zinc	66-2	191.55	194.32	193.06	192.98	0.72	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	16.61	ppb
Zirconium	91-1	0.12	0.12	0.13	0.12	3.55	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.07	0.12	-0.14	0.02	836.09	ppb
Antimony	121-1	0.06	0.07	0.06	0.06	7.85	ppb
Arsenic	75-2	0.00	0.01	-0.01	0.00		ppb
Barium	135-1	-0.03	-0.04	-0.03	-0.03		ppb
Barium	137-1	-0.04	-0.03	-0.03	-0.03		ppb
Beryllium	9-1	0.10	0.09	0.08	0.09	11.41	ppb
Bismuth	209-1				102		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	0.06	-0.01	0.04	0.03	113.34	ppb
Cadmium	106-1	-1.91	-1.16	-1.33	-1.47		ppb
Cadmium	111-1	-0.14	-0.08	-0.09	-0.10		ppb
Calcium	43-1	0.90	0.15	-1.01	0.01	7516.25	ppb
Calcium	44-1	-1.67	-1.49	-2.12	-1.76		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	-0.10	-0.05	-0.07		ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	0.01	0.01	0.01	0.01	33.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				107		%
Indium	115-1				107		%
Indium	115-2				111		%
Iron	54-2	0.21	0.55	0.56	0.44	45.25	ppb
Iron	56-2	0.82	0.60	0.50	0.64	25.32	ppb
Iron	57-2	1.06	2.29	1.28	1.54	42.67	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.21	0.22	0.22	7.22	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	DataFile Name :	013CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.22	0.20	0.20	0.21	4.49	ppb
Lead	208-1	0.23	0.22	0.21	0.22	4.98	ppb
Lithium	6-1				110		%
Magnesium	24-2	-5.48	-5.35	-4.98	-5.27		ppb
Manganese	55-2	0.04	0.04	0.02	0.04	29.13	ppb
Molybdenum	94-1	0.02	0.02	0.02	0.02	6.42	ppb
Molybdenum	95-1	0.02	0.01	0.02	0.02	32.22	ppb
Molybdenum	96-1	0.03	0.01	0.02	0.02	36.49	ppb
Molybdenum	97-1	0.01	0.00	0.02	0.01	106.22	ppb
Molybdenum	98-1	0.02	0.02	0.01	0.02	18.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.19	-0.09	-0.05	-0.11		ppb
Phosphorus	31-2	-15.88	-20.57	-20.44	-18.97		ppb
Potassium	39-2	4.93	6.31	3.99	5.08	22.99	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				109		%
Scandium	45-2				109		%
Selenium	82-1	-0.38	-0.44	-0.03	-0.28		ppb
Selenium	77-2	0.78	0.00	0.00	0.26	173.21	ppb
Selenium	78-2	-0.27	0.19	-0.05	-0.04		ppb
Silicon	28-1	-1.13	-0.26	-0.82	-0.74		ppb
Silver	107-1	0.02	0.02	0.02	0.02	12.70	ppb
Silver	109-1	0.02	0.02	0.02	0.02	19.22	ppb
Sodium	23-2	8.17	5.94	7.71	7.27	16.20	ppb
Strontium	86-1	-0.03	-0.03	-0.03	-0.03		ppb
Strontium	88-1	-0.02	-0.03	-0.02	-0.02		ppb
Sulfur	34-1	-1282.48	-978.86	-1062.31	-1107.88		ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.02	0.02	0.02	13.71	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	11.10	ppb
Tin	118-1	0.00	0.00	0.01	0.01	51.57	ppb
Titanium	47-1	0.02	-0.01	-0.01	0.00	1601.34	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	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				105		%
Yttrium	89-2				109		%
Zinc	66-2	0.23	0.31	0.29	0.28	16.00	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	214.13	ppb
Zirconium	91-1	0.01	0.00	0.01	0.01	83.83	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	95985.02	98958.55	99152.84	98032.14	1.81	ppb
Antimony	121-1	1.10	1.18	1.12	1.13	3.67	ppb
Arsenic	75-2	0.30	0.35	0.37	0.34	11.34	ppb
Barium	135-1	1.36	1.37	1.31	1.35	2.33	ppb
Barium	137-1	1.36	1.44	1.33	1.38	4.18	ppb
Beryllium	9-1	0.35	0.34	0.35	0.35	1.68	ppb
Bismuth	209-1				93		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	19.04	20.65	19.18	19.62	4.54	ppb
Cadmium	106-1	-2.42	-1.72	-2.85	-2.33		ppb
Cadmium	111-1	0.62	0.63	0.47	0.57	15.26	ppb
Calcium	43-1	105812.26	105254.24	104694.04	105253.52	0.53	ppb
Calcium	44-1	106605.75	106140.15	105557.20	106101.03	0.50	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19.78	19.66	19.46	19.64	0.82	ppb
Cobalt	59-2	1.15	1.15	1.21	1.17	2.74	ppb
Copper	63-2	8.12	8.05	8.22	8.13	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				104		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				102		%
Iron	54-2	108609.47	107567.01	110169.15	108781.88	1.20	ppb
Iron	56-2	108111.51	107795.17	108859.38	108255.35	0.50	ppb
Iron	57-2	108252.52	106544.29	109712.72	108169.85	1.47	ppb
Krypton	83-1						cps
Lead	206-1	4.77	4.89	4.72	4.80	1.84	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.45	4.44	4.47	4.45	0.37	ppb
Lead	208-1	4.50	4.56	4.54	4.53	0.64	ppb
Lithium	6-1				100		%
Magnesium	24-2	98516.50	99025.20	99139.36	98893.69	0.34	ppb
Manganese	55-2	7.34	7.56	7.58	7.50	1.79	ppb
Molybdenum	94-1	1643.36	1675.97	1669.87	1663.06	1.04	ppb
Molybdenum	95-1	1999.09	2027.27	2059.37	2028.58	1.49	ppb
Molybdenum	96-1	1937.37	1981.40	2044.40	1987.72	2.71	ppb
Molybdenum	97-1	1990.72	2017.64	2065.22	2024.52	1.86	ppb
Molybdenum	98-1	2018.28	2031.95	2032.25	2027.49	0.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.23	5.09	5.14	5.15	1.36	ppb
Phosphorus	31-2	104475.02	105027.32	107231.37	105577.90	1.38	ppb
Potassium	39-2	99743.77	100884.13	102583.44	101070.45	1.41	ppb
Rhodium	103-1				96		%
Rhodium	103-2				98		%
Scandium	45-1				106		%
Scandium	45-2				106		%
Selenium	82-1	0.19	-0.08	0.22	0.11	152.20	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.43	0.19	-0.03	0.20	115.17	ppb
Silicon	28-1	23.83	23.54	23.60	23.66	0.66	ppb
Silver	107-1	0.11	0.11	0.08	0.10	14.74	ppb
Silver	109-1	0.11	0.10	0.09	0.10	9.51	ppb
Sodium	23-2	109601.45	110342.17	110673.17	110205.60	0.50	ppb
Strontium	86-1	32.80	33.09	33.54	33.14	1.13	ppb
Strontium	88-1	35.28	35.92	35.67	35.62	0.91	ppb
Sulfur	34-1	100158.07	98921.09	99787.87	99622.34	0.64	ppb
Terbium	159-1				102		%
Terbium	159-2				104		%
Thallium	203-1	0.14	0.15	0.17	0.15	10.17	ppb
Thallium	205-1	0.14	0.15	0.16	0.15	9.04	ppb
Tin	118-1	0.15	0.20	0.25	0.20	24.93	ppb
Titanium	47-1	2091.93	2143.91	2111.04	2115.63	1.24	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	5.84	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.12	0.10	0.16	0.13	22.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				107		%
Zinc	66-2	10.58	11.27	10.76	10.87	3.30	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	13.54	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	11.55	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92784.27	94650.54	94228.02	93887.61	1.04	ppb
Antimony	121-1	20.68	20.70	20.59	20.66	0.28	ppb
Arsenic	75-2	21.40	20.29	21.01	20.90	2.69	ppb
Barium	135-1	20.86	20.87	20.78	20.84	0.23	ppb
Barium	137-1	20.86	20.98	21.17	21.01	0.74	ppb
Beryllium	9-1	20.68	21.22	20.78	20.90	1.38	ppb
Bismuth	209-1				92		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	33.72	34.84	34.34	34.30	1.64	ppb
Cadmium	106-1	12.79	12.30	12.74	12.61	2.14	ppb
Cadmium	111-1	19.45	19.27	19.64	19.45	0.95	ppb
Calcium	43-1	102286.49	104605.56	103100.59	103330.88	1.14	ppb
Calcium	44-1	102762.05	104370.05	103442.73	103524.94	0.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.18	38.04	38.30	38.17	0.34	ppb
Cobalt	59-2	20.51	20.85	20.68	20.68	0.81	ppb
Copper	63-2	27.57	27.45	27.07	27.36	0.96	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				103		%
Holmium	165-2				103		%
Indium	115-1				99		%
Indium	115-2				101		%
Iron	54-2	105860.43	104012.84	103741.52	104538.27	1.10	ppb
Iron	56-2	104660.75	104820.48	103408.96	104296.73	0.74	ppb
Iron	57-2	104416.95	104615.67	105655.31	104895.98	0.63	ppb
Krypton	83-1						cps
Lead	206-1	23.60	23.94	24.25	23.93	1.37	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.77	23.45	23.66	23.29	1.99	ppb
Lead	208-1	22.93	23.33	23.69	23.32	1.62	ppb
Lithium	6-1				100		%
Magnesium	24-2	96009.00	95245.99	94080.86	95111.95	1.02	ppb
Manganese	55-2	26.47	26.47	26.56	26.50	0.19	ppb
Molybdenum	94-1	1631.60	1631.84	1593.72	1619.06	1.36	ppb
Molybdenum	95-1	1985.72	2015.03	1969.31	1990.02	1.16	ppb
Molybdenum	96-1	1942.19	1958.19	1908.14	1936.17	1.32	ppb
Molybdenum	97-1	1955.34	1996.57	1905.87	1952.60	2.33	ppb
Molybdenum	98-1	1960.77	1979.07	1930.35	1956.73	1.26	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	24.25	24.67	24.91	24.61	1.37	ppb
Phosphorus	31-2	102094.90	102828.72	102593.94	102505.85	0.37	ppb
Potassium	39-2	98901.12	98523.04	96984.72	98136.29	1.03	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				105		%
Scandium	45-2				106		%
Selenium	82-1	20.68	21.26	20.69	20.88	1.58	ppb
Selenium	77-2	18.52	24.20	17.76	20.16	17.45	ppb
Selenium	78-2	22.92	17.99	18.48	19.80	13.73	ppb
Silicon	28-1	25.69	26.82	26.19	26.24	2.15	ppb
Silver	107-1	18.28	18.32	18.58	18.39	0.89	ppb
Silver	109-1	18.48	18.59	18.62	18.56	0.38	ppb
Sodium	23-2	106547.19	106183.71	105798.96	106176.62	0.35	ppb
Strontium	86-1	32.41	32.95	32.58	32.65	0.85	ppb
Strontium	88-1	34.12	34.75	34.34	34.41	0.93	ppb
Sulfur	34-1	97645.63	99961.68	96990.47	98199.26	1.59	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	19.34	19.79	20.31	19.81	2.45	ppb
Thallium	205-1	19.62	19.81	20.16	19.86	1.36	ppb
Tin	118-1	0.16	0.17	0.17	0.17	4.01	ppb
Titanium	47-1	2042.95	2091.57	2046.03	2060.18	1.32	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	3.42	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.78	19.61	19.47	19.62	0.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				105		%
Zinc	66-2	30.47	30.13	29.69	30.10	1.29	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	3.94	ppb
Zirconium	91-1	0.02	0.03	0.02	0.02	26.22	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51386.42	51402.78	50620.18	51136.46	0.87	ppb
Antimony	121-1	491.47	504.91	494.35	496.91	1.42	ppb
Arsenic	75-2	489.62	493.67	493.37	492.22	0.46	ppb
Barium	135-1	2512.09	2557.48	2505.79	2525.12	1.12	ppb
Barium	137-1	2562.99	2567.68	2531.93	2554.20	0.76	ppb
Beryllium	9-1	516.39	510.79	510.53	512.57	0.65	ppb
Bismuth	209-1				87		%
Bismuth	209-2				89		%
Bromine	81-1						cps
Cadmium	108-1	484.20	494.09	487.66	488.65	1.03	ppb
Cadmium	106-1	493.68	493.53	492.64	493.28	0.11	ppb
Cadmium	111-1	497.25	491.34	482.73	490.44	1.49	ppb
Calcium	43-1	256735.35	257727.41	256601.42	257021.39	0.24	ppb
Calcium	44-1	261240.14	257136.35	257437.19	258604.56	0.88	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	507.39	500.89	485.08	497.79	2.31	ppb
Cobalt	59-2	489.17	487.87	478.46	485.16	1.20	ppb
Copper	63-2	4771.41	4750.88	4681.36	4734.55	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				101		%
Indium	115-1				94		%
Indium	115-2				98		%
Iron	54-2	129463.45	127573.05	124821.41	127285.97	1.83	ppb
Iron	56-2	127907.46	128305.08	125426.51	127213.02	1.23	ppb
Iron	57-2	126435.53	125426.68	125427.35	125763.19	0.46	ppb
Krypton	83-1						cps
Lead	206-1	2480.24	2503.41	2515.59	2499.75	0.72	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2492.81	2517.80	2528.49	2513.03	0.73	ppb
Lead	208-1	2502.00	2526.18	2528.91	2519.03	0.59	ppb
Lithium	6-1				96		%
Magnesium	24-2	248290.95	246179.71	244732.54	246401.07	0.73	ppb
Manganese	55-2	5011.70	5018.71	4878.03	4969.48	1.60	ppb
Molybdenum	94-1	4982.14	5017.81	5080.94	5026.96	1.00	ppb
Molybdenum	95-1	5100.69	4980.75	5013.73	5031.72	1.23	ppb
Molybdenum	96-1	5133.81	4966.19	5056.78	5052.26	1.66	ppb
Molybdenum	97-1	5147.96	4906.75	5062.40	5039.04	2.43	ppb
Molybdenum	98-1	5067.08	4934.78	5043.25	5015.04	1.41	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	455.43	451.92	447.83	451.73	0.84	ppb
Phosphorus	31-2	10081.67	9773.26	9780.23	9878.39	1.78	ppb
Potassium	39-2	123820.71	123640.09	120918.86	122793.22	1.32	ppb
Rhodium	103-1				91		%
Rhodium	103-2				93		%
Scandium	45-1				103		%
Scandium	45-2				106		%
Selenium	82-1	485.54	474.10	483.24	480.96	1.26	ppb
Selenium	77-2	498.89	486.13	492.51	492.51	1.30	ppb
Selenium	78-2	499.49	472.05	493.13	488.22	2.94	ppb
Silicon	28-1	634.22	619.18	620.18	624.53	1.35	ppb
Silver	107-1	485.53	502.63	492.08	493.41	1.75	ppb
Silver	109-1	482.52	494.88	483.05	486.82	1.44	ppb
Sodium	23-2	263255.22	259733.62	257653.39	260214.08	1.09	ppb
Strontium	86-1	494.26	506.19	500.40	500.28	1.19	ppb
Strontium	88-1	509.88	497.27	494.77	500.64	1.62	ppb
Sulfur	34-1	9227.47	9272.39	9331.31	9277.06	0.56	ppb
Terbium	159-1				96		%
Terbium	159-2				99		%
Thallium	203-1	505.58	494.92	506.26	502.25	1.27	ppb
Thallium	205-1	502.00	506.43	504.74	504.39	0.44	ppb
Tin	118-1	500.64	505.56	496.00	500.73	0.95	ppb
Titanium	47-1	5040.61	4941.22	4956.75	4979.53	1.07	ppb
Uranium	238-1	510.81	511.33	517.82	513.32	0.76	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.97	501.27	496.92	503.39	1.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				104		%
Zinc	66-2	4814.02	4773.53	4824.73	4804.09	0.56	ppb
Zirconium	90-1	500.37	501.34	501.18	500.96	0.10	ppb
Zirconium	91-1	511.63	508.96	504.68	508.42	0.69	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.98	1.52	1.43	1.31	22.06	ppb
Antimony	121-1	0.13	0.11	0.11	0.11	9.43	ppb
Arsenic	75-2	-0.01	0.02	0.00	0.00	1479.16	ppb
Barium	135-1	0.07	0.05	0.06	0.06	14.71	ppb
Barium	137-1	0.09	0.07	0.07	0.08	19.94	ppb
Beryllium	9-1	0.16	0.14	0.14	0.14	9.25	ppb
Bismuth	209-1				102		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.05	0.03	0.05	59.04	ppb
Cadmium	106-1	-1.84	-0.80	-1.20	-1.28		ppb
Cadmium	111-1	-0.10	-0.04	-0.06	-0.07		ppb
Calcium	43-1	6.10	7.70	5.36	6.39	18.73	ppb
Calcium	44-1	7.00	4.91	5.02	5.64	20.84	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.15	0.22	0.25	0.21	23.00	ppb
Cobalt	59-2	0.00	0.00	-0.01	0.00		ppb
Copper	63-2	0.19	0.14	0.12	0.15	24.31	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				114		%
Iron	54-2	3.62	4.95	4.61	4.39	15.69	ppb
Iron	56-2	4.09	3.91	4.11	4.04	2.74	ppb
Iron	57-2	5.22	3.63	4.52	4.46	17.88	ppb
Krypton	83-1						cps
Lead	206-1	0.25	0.21	0.20	0.22	11.07	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.23	0.25	0.22	0.23	5.87	ppb
Lead	208-1	0.25	0.23	0.21	0.23	7.60	ppb
Lithium	6-1				109		%
Magnesium	24-2	-5.44	-6.10	-5.94	-5.83		ppb
Manganese	55-2	0.19	0.17	0.13	0.16	19.74	ppb
Molybdenum	94-1	0.23	0.23	0.16	0.21	19.52	ppb
Molybdenum	95-1	0.21	0.19	0.18	0.19	8.69	ppb
Molybdenum	96-1	0.21	0.22	0.16	0.20	14.96	ppb
Molybdenum	97-1	0.22	0.20	0.17	0.20	13.22	ppb
Molybdenum	98-1	0.20	0.19	0.16	0.18	11.24	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.08	-0.15	-0.09	-0.11		ppb
Phosphorus	31-2	-15.20	-20.15	-21.64	-19.00		ppb
Potassium	39-2	22.81	23.91	20.67	22.46	7.31	ppb
Rhodium	103-1				108		%
Rhodium	103-2				109		%
Scandium	45-1				111		%
Scandium	45-2				111		%
Selenium	82-1	-0.19	0.08	-0.02	-0.04		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.86	0.63	0.39	0.63	37.40	ppb
Silicon	28-1	0.10	0.25	0.28	0.21	46.68	ppb
Silver	107-1	0.06	0.05	0.04	0.05	14.16	ppb
Silver	109-1	0.06	0.05	0.05	0.05	19.15	ppb
Sodium	23-2	41.95	39.16	38.14	39.75	4.96	ppb
Strontium	86-1	-0.02	-0.02	-0.02	-0.02		ppb
Strontium	88-1	-0.02	-0.02	-0.02	-0.02		ppb
Sulfur	34-1	-1474.99	-1336.19	-1209.83	-1340.34		ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	0.08	0.06	0.06	0.07	15.06	ppb
Thallium	205-1	0.08	0.07	0.06	0.07	12.57	ppb
Tin	118-1	0.03	0.03	0.02	0.03	14.60	ppb
Titanium	47-1	0.17	0.15	0.11	0.14	22.61	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	19.95	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.00	0.01	107.03	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	0.19	0.23	0.27	0.23	17.40	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	23.63	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	4.30	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33.07	35.85	34.36	34.43	4.05	ppb
Antimony	121-1	0.05	0.05	0.05	0.05	8.93	ppb
Arsenic	75-2	0.40	0.40	0.36	0.38	6.07	ppb
Barium	135-1	84.80	84.23	84.04	84.36	0.47	ppb
Barium	137-1	85.69	86.70	84.83	85.74	1.09	ppb
Beryllium	9-1	0.39	0.37	0.38	0.38	2.70	ppb
Bismuth	209-1				99		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.23	0.19	0.32	0.25	27.36	ppb
Cadmium	106-1	-0.99	-0.84	-1.61	-1.15		ppb
Cadmium	111-1	0.16	0.14	0.09	0.13	30.58	ppb
Calcium	43-1	5135.57	5286.89	5267.91	5230.12	1.58	ppb
Calcium	44-1	5505.10	5629.11	5456.73	5530.32	1.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.13	0.23	0.16	0.17	26.68	ppb
Cobalt	59-2	3.52	3.47	3.47	3.49	0.93	ppb
Copper	63-2	0.55	0.56	0.54	0.55	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				104		%
Holmium	165-2				105		%
Indium	115-1				104		%
Indium	115-2				108		%
Iron	54-2	206.14	216.46	214.77	212.45	2.60	ppb
Iron	56-2	208.42	212.80	211.29	210.84	1.06	ppb
Iron	57-2	213.81	212.35	203.44	209.87	2.67	ppb
Krypton	83-1						cps
Lead	206-1	0.19	0.18	0.17	0.18	4.75	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.18	0.17	0.15	0.17	6.72	ppb
Lead	208-1	0.19	0.17	0.16	0.17	7.65	ppb
Lithium	6-1				106		%
Magnesium	24-2	1615.70	1638.39	1613.64	1622.58	0.85	ppb
Manganese	55-2	207.87	212.98	212.85	211.23	1.38	ppb
Molybdenum	94-1	0.06	0.07	0.05	0.06	16.34	ppb
Molybdenum	95-1	0.04	0.03	0.01	0.03	43.06	ppb
Molybdenum	96-1	0.05	0.03	0.02	0.03	48.10	ppb
Molybdenum	97-1	0.02	0.02	0.01	0.02	26.94	ppb
Molybdenum	98-1	0.03	0.02	0.01	0.02	37.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.15	8.13	8.34	8.21	1.44	ppb
Phosphorus	31-2	3.77	8.13	8.63	6.84	39.10	ppb
Potassium	39-2	800.09	812.51	807.55	806.72	0.77	ppb
Rhodium	103-1				103		%
Rhodium	103-2				105		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	11.31	11.69	11.66	11.55	1.85	ppb
Selenium	77-2	10.13	10.29	13.93	11.45	18.75	ppb
Selenium	78-2	8.20	10.66	10.18	9.68	13.46	ppb
Silicon	28-1	9324.33	9449.94	9553.90	9442.73	1.22	ppb
Silver	107-1	0.02	0.01	0.01	0.02	6.19	ppb
Silver	109-1	0.01	0.02	0.01	0.01	14.84	ppb
Sodium	23-2	28391.20	28686.71	28187.87	28421.93	0.88	ppb
Strontium	86-1	55.93	55.81	56.16	55.97	0.32	ppb
Strontium	88-1	60.62	59.77	59.67	60.02	0.86	ppb
Sulfur	34-1	7109.44	7347.98	7224.05	7227.16	1.65	ppb
Terbium	159-1				102		%
Terbium	159-2				105		%
Thallium	203-1	0.05	0.03	0.03	0.04	24.61	ppb
Thallium	205-1	0.05	0.04	0.03	0.04	15.68	ppb
Tin	118-1	0.18	0.17	0.15	0.17	8.79	ppb
Titanium	47-1	0.88	0.90	0.94	0.91	3.51	ppb
Uranium	238-1	0.02	0.01	0.01	0.02	10.86	ppb

500

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.24	0.22	0.19	0.21	12.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				109		%
Zinc	66-2	11.36	11.91	11.86	11.71	2.61	ppb
Zirconium	90-1	0.02	0.02	0.01	0.02	11.28	ppb
Zirconium	91-1	0.02	0.02	0.02	0.02	12.51	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.20	-0.11	0.49	0.20	151.86	ppb
Antimony	121-1	0.01	0.01	0.02	0.02	8.14	ppb
Arsenic	75-2	0.00	-0.01	-0.01	-0.01		ppb
Barium	135-1	0.01	-0.01	0.02	0.01	179.88	ppb
Barium	137-1	-0.01	0.01	-0.02	-0.01		ppb
Beryllium	9-1	0.04	0.04	0.04	0.04	8.50	ppb
Bismuth	209-1				102		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	0.02	-0.01	0.00	5931.43	ppb
Cadmium	106-1	-0.99	-0.73	-0.73	-0.82		ppb
Cadmium	111-1	-0.07	-0.06	-0.05	-0.06		ppb
Calcium	43-1	0.92	-0.67	0.69	0.31	274.87	ppb
Calcium	44-1	-1.34	-1.03	-2.13	-1.50		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	-0.07		ppb
Cobalt	59-2	-0.02	-0.01	-0.02	-0.02		ppb
Copper	63-2	-0.08	-0.04	-0.04	-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				105		%
Holmium	165-2				107		%
Indium	115-1				107		%
Indium	115-2				112		%
Iron	54-2	1.23	0.48	0.43	0.71	62.98	ppb
Iron	56-2	0.63	0.53	0.42	0.53	19.35	ppb
Iron	57-2	0.11	1.23	1.20	0.85	75.74	ppb
Krypton	83-1						cps
Lead	206-1	0.08	0.08	0.07	0.08	8.30	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.09	0.08	0.08	7.94	ppb
Lead	208-1	0.08	0.08	0.07	0.08	6.74	ppb
Lithium	6-1				106		%
Magnesium	24-2	-6.73	-6.81	-6.66	-6.73		ppb
Manganese	55-2	0.02	0.02	0.02	0.02	17.83	ppb
Molybdenum	94-1	0.02	0.01	0.03	0.02	53.24	ppb
Molybdenum	95-1	0.02	0.02	0.01	0.02	21.68	ppb
Molybdenum	96-1	0.03	0.02	0.02	0.02	20.62	ppb
Molybdenum	97-1	0.03	0.02	0.02	0.02	29.90	ppb
Molybdenum	98-1	0.02	0.01	0.02	0.02	14.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.14	-0.15	-0.15	-0.15		ppb
Phosphorus	31-2	-13.07	-15.96	-20.03	-16.35		ppb
Potassium	39-2	11.60	13.14	12.58	12.44	6.29	ppb
Rhodium	103-1				107		%
Rhodium	103-2				108		%
Scandium	45-1				111		%
Scandium	45-2				110		%
Selenium	82-1	0.21	0.24	0.07	0.17	50.55	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.27	0.64	0.18	0.18	250.61	ppb
Silicon	28-1	0.22	-0.34	-0.44	-0.19		ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.45	ppb
Silver	109-1	0.01	0.01	0.00	0.01	30.68	ppb
Sodium	23-2	21.63	20.43	17.59	19.88	10.43	ppb
Strontium	86-1	-0.04	-0.03	-0.03	-0.03		ppb
Strontium	88-1	-0.03	-0.03	-0.03	-0.03		ppb
Sulfur	34-1	-1306.03	-1323.20	-1248.19	-1292.47		ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	0.02	0.01	0.02	0.02	18.90	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	7.48	ppb
Tin	118-1	0.00	0.00	0.00	0.00	33.53	ppb
Titanium	47-1	0.01	0.01	0.01	0.01	28.30	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	0.00	-0.01	0.00		ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				109		%
Zinc	66-2	0.12	0.11	0.06	0.10	34.26	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	415.93	ppb
Zirconium	91-1	0.00	0.01	0.01	0.00	51.71	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39.79	42.09	44.36	42.08	5.43	ppb
Antimony	121-1	4.05	4.15	4.21	4.13	1.91	ppb
Arsenic	75-2	1.93	2.22	2.20	2.12	7.83	ppb
Barium	135-1	19.77	20.32	20.12	20.07	1.39	ppb
Barium	137-1	20.01	20.45	20.38	20.28	1.17	ppb
Beryllium	9-1	2.12	2.15	2.11	2.13	1.00	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	2.24	2.05	2.15	2.15	4.63	ppb
Cadmium	106-1	0.54	1.20	0.91	0.88	37.68	ppb
Cadmium	111-1	1.95	2.02	2.08	2.02	3.12	ppb
Calcium	43-1	1044.33	1047.95	1053.60	1048.63	0.45	ppb
Calcium	44-1	1037.77	1057.58	1044.52	1046.62	0.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.79	4.05	3.98	3.94	3.40	ppb
Cobalt	59-2	2.11	2.15	2.16	2.14	1.11	ppb
Copper	63-2	4.57	4.68	4.64	4.63	1.26	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				106		%
Indium	115-2				108		%
Iron	54-2	438.82	435.52	441.01	438.45	0.63	ppb
Iron	56-2	427.50	432.65	436.81	432.32	1.08	ppb
Iron	57-2	429.02	433.00	434.66	432.23	0.67	ppb
Krypton	83-1						cps
Lead	206-1	2.00	2.03	2.02	2.01	0.80	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2.01	2.10	2.02	2.04	2.41	ppb
Lead	208-1	2.01	2.06	2.04	2.04	1.14	ppb
Lithium	6-1				106		%
Magnesium	24-2	986.01	1001.38	1009.25	998.88	1.18	ppb
Manganese	55-2	2.05	2.13	2.06	2.08	2.24	ppb
Molybdenum	94-1	11.56	11.94	11.70	11.73	1.60	ppb
Molybdenum	95-1	9.97	10.01	9.87	9.95	0.69	ppb
Molybdenum	96-1	9.93	10.05	9.98	9.99	0.60	ppb
Molybdenum	97-1	9.85	9.95	9.91	9.91	0.49	ppb
Molybdenum	98-1	9.80	9.93	9.83	9.85	0.68	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	2.07	2.04	2.11	2.07	1.76	ppb
Phosphorus	31-2	27.23	26.11	32.52	28.62	11.96	ppb
Potassium	39-2	1006.53	1016.65	1034.17	1019.12	1.37	ppb
Rhodium	103-1				106		%
Rhodium	103-2				107		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	10.72	11.52	10.81	11.02	3.99	ppb
Selenium	77-2	11.62	11.68	18.26	13.85	27.54	ppb
Selenium	78-2	13.38	12.77	8.13	11.42	25.14	ppb
Silicon	28-1	19.65	20.95	19.77	20.13	3.58	ppb
Silver	107-1	2.04	2.05	2.08	2.06	1.06	ppb
Silver	109-1	2.04	2.12	2.09	2.08	1.96	ppb
Sodium	23-2	1080.77	1090.93	1094.91	1088.87	0.67	ppb
Strontium	86-1	1.97	1.97	1.93	1.96	1.34	ppb
Strontium	88-1	1.94	1.96	1.97	1.96	0.81	ppb
Sulfur	34-1	-1024.47	-812.58	-1013.98	-950.34		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	1.96	1.99	1.96	1.97	0.64	ppb
Thallium	205-1	1.94	2.01	1.98	1.98	1.82	ppb
Tin	118-1	10.14	10.43	10.39	10.32	1.49	ppb
Titanium	47-1	2.46	2.58	2.45	2.50	2.90	ppb
Uranium	238-1	1.78	1.84	1.84	1.82	1.75	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.36	10.60	10.55	10.50	1.21	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				109		%
Zinc	66-2	10.64	11.13	10.32	10.70	3.81	ppb
Zirconium	90-1	1.93	2.00	1.99	1.97	2.02	ppb
Zirconium	91-1	1.91	1.97	1.99	1.95	1.93	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.73	12.02	11.72	12.16	4.27	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	9.16	ppb
Arsenic	75-2	0.60	0.64	0.75	0.66	12.19	ppb
Barium	135-1	8.18	7.99	8.03	8.07	1.20	ppb
Barium	137-1	8.25	8.25	8.28	8.26	0.27	ppb
Beryllium	9-1	0.01	0.02	0.03	0.02	37.55	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.06	0.07	0.01	0.05	70.75	ppb
Cadmium	106-1	-0.76	-1.58	-1.50	-1.28		ppb
Cadmium	111-1	-0.05	-0.12	-0.11	-0.09		ppb
Calcium	43-1	440581.38	442733.26	439531.40	440948.68	0.37	ppb
Calcium	44-1	437907.98	439468.75	434468.59	437281.77	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.42	-0.41	-0.40	-0.41		ppb
Cobalt	59-2	0.04	0.03	0.05	0.04	23.14	ppb
Copper	63-2	-0.06	-0.07	-0.05	-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				107		%
Holmium	165-2				107		%
Indium	115-1				105		%
Indium	115-2				108		%
Iron	54-2	5034.87	5080.24	5050.76	5055.29	0.46	ppb
Iron	56-2	5340.64	5328.16	5193.85	5287.55	1.54	ppb
Iron	57-2	5051.28	5061.35	4999.34	5037.32	0.66	ppb
Krypton	83-1						cps
Lead	206-1	0.34	0.27	0.26	0.29	15.54	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.34	0.25	0.25	0.28	18.39	ppb
Lead	208-1	0.34	0.27	0.25	0.29	16.77	ppb
Lithium	6-1				107		%
Magnesium	24-2	164115.83	163311.38	161041.81	162823.01	0.98	ppb
Manganese	55-2	70.16	71.08	69.73	70.32	0.98	ppb
Molybdenum	94-1	1.24	1.26	1.28	1.26	1.79	ppb
Molybdenum	95-1	1.41	1.46	1.39	1.42	2.65	ppb
Molybdenum	96-1	1.40	1.33	1.42	1.38	3.74	ppb
Molybdenum	97-1	1.39	1.45	1.42	1.42	2.12	ppb
Molybdenum	98-1	1.40	1.39	1.42	1.40	1.28	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.30	-0.28	-0.38	-0.32		ppb
Phosphorus	31-2	1.34	-15.06	-10.94	-8.22		ppb
Potassium	39-2	4113.98	4126.76	4112.75	4117.83	0.19	ppb
Rhodium	103-1				100		%
Rhodium	103-2				103		%
Scandium	45-1				114		%
Scandium	45-2				114		%
Selenium	82-1	0.20	0.22	0.40	0.27	41.54	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.39	-0.50	0.18	0.02	2115.27	ppb
Silicon	28-1	8175.37	8258.68	8308.97	8247.67	0.82	ppb
Silver	107-1	0.02	0.01	0.02	0.02	11.58	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.43	ppb
Sodium	23-2	48300.42	47625.20	46961.26	47628.96	1.41	ppb
Strontium	86-1	12073.61	11962.26	12055.39	12030.42	0.50	ppb
Strontium	88-1	12151.15	12082.32	12218.81	12150.76	0.56	ppb
Sulfur	34-1	533723.09	536298.30	529853.80	533291.73	0.61	ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	0.04	0.03	0.03	0.03	6.73	ppb
Thallium	205-1	0.04	0.03	0.03	0.03	13.21	ppb
Tin	118-1	0.06	0.06	0.04	0.05	15.79	ppb
Titanium	47-1	1.06	1.07	1.02	1.05	2.32	ppb
Uranium	238-1	0.84	0.82	0.82	0.83	1.77	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.04	0.04	0.04	11.89	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				111		%
Zinc	66-2	1.12	1.03	1.06	1.07	4.03	ppb
Zirconium	90-1	0.04	0.04	0.04	0.04	9.18	ppb
Zirconium	91-1	0.05	0.04	0.04	0.04	20.20	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13.34	11.92	10.84	12.04	10.45	ppb
Antimony	121-1	0.03	0.03	0.03	0.03	4.31	ppb
Arsenic	75-2	0.50	0.52	0.68	0.57	17.90	ppb
Barium	135-1	7.92	8.02	7.97	7.97	0.66	ppb
Barium	137-1	8.19	8.13	8.29	8.20	0.98	ppb
Beryllium	9-1	0.02	0.01	0.02	0.02	21.84	ppb
Bismuth	209-1				98		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.06	0.06	0.06	17.04	ppb
Cadmium	106-1	-0.48	-0.78	-0.97	-0.74		ppb
Cadmium	111-1	-0.04	-0.06	-0.08	-0.06		ppb
Calcium	43-1	442923.20	440220.76	443421.18	442188.38	0.39	ppb
Calcium	44-1	439355.75	447822.25	439119.64	442099.21	1.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.32	-0.33	-0.31	-0.32		ppb
Cobalt	59-2	0.04	0.04	0.04	0.04	4.86	ppb
Copper	63-2	-0.07	-0.06	-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				110		%
Holmium	165-2				110		%
Indium	115-1				110		%
Indium	115-2				115		%
Iron	54-2	5052.52	4958.89	5013.51	5008.30	0.94	ppb
Iron	56-2	5344.69	5289.64	5262.88	5299.07	0.79	ppb
Iron	57-2	5019.01	4978.87	4944.63	4980.84	0.75	ppb
Krypton	83-1						cps
Lead	206-1	0.23	0.23	0.24	0.23	2.01	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.22	0.22	0.20	0.21	4.55	ppb
Lead	208-1	0.23	0.22	0.22	0.22	0.89	ppb
Lithium	6-1				110		%
Magnesium	24-2	163815.59	162978.23	164416.98	163736.93	0.44	ppb
Manganese	55-2	68.22	66.61	67.62	67.48	1.20	ppb
Molybdenum	94-1	1.18	1.18	1.23	1.20	2.19	ppb
Molybdenum	95-1	1.40	1.40	1.37	1.39	1.36	ppb
Molybdenum	96-1	1.36	1.41	1.35	1.38	2.42	ppb
Molybdenum	97-1	1.39	1.38	1.41	1.39	1.07	ppb
Molybdenum	98-1	1.40	1.37	1.40	1.39	1.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.35	-0.28	-0.22	-0.28		ppb
Phosphorus	31-2	-5.52	-11.17	-14.31	-10.33		ppb
Potassium	39-2	4170.04	4088.10	4104.74	4120.96	1.05	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				120		%
Scandium	45-2				118		%
Selenium	82-1	0.32	0.47	0.23	0.34	34.99	ppb
Selenium	77-2	0.72	0.00	2.21	0.98	115.33	ppb
Selenium	78-2	-0.08	0.15	0.15	0.08	174.09	ppb
Silicon	28-1	8233.44	8383.34	8085.37	8234.05	1.81	ppb
Silver	107-1	0.01	0.01	0.01	0.01	7.36	ppb
Silver	109-1	0.01	0.01	0.01	0.01	19.90	ppb
Sodium	23-2	47541.39	46277.45	47480.18	47099.68	1.51	ppb
Strontium	86-1	12260.90	12315.77	12164.52	12247.06	0.63	ppb
Strontium	88-1	12231.63	12243.28	12343.89	12272.93	0.50	ppb
Sulfur	34-1	530648.73	537851.39	532263.23	533587.78	0.71	ppb
Terbium	159-1				108		%
Terbium	159-2				110		%
Thallium	203-1	0.03	0.03	0.02	0.02	13.50	ppb
Thallium	205-1	0.03	0.03	0.02	0.02	8.77	ppb
Tin	118-1	0.07	0.06	0.06	0.06	7.52	ppb
Titanium	47-1	0.98	1.04	1.16	1.06	8.66	ppb
Uranium	238-1	0.84	0.85	0.83	0.84	1.02	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.03	0.04	0.05	0.04	28.26	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				116		%
Zinc	66-2	0.86	0.96	1.01	0.94	8.41	ppb
Zirconium	90-1	0.03	0.03	0.03	0.03	6.10	ppb
Zirconium	91-1	0.04	0.03	0.04	0.04	12.83	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.75	2.86	2.97	2.86	3.91	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	31.19	ppb
Arsenic	75-2	0.09	0.06	0.14	0.10	40.44	ppb
Barium	135-1	1.62	1.58	1.62	1.61	1.26	ppb
Barium	137-1	1.62	1.62	1.62	1.62	0.05	ppb
Beryllium	9-1	0.01	0.01	0.02	0.01	47.74	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.04	-0.03	0.04	0.02	214.09	ppb
Cadmium	106-1	-0.78	-0.73	-0.76	-0.76		ppb
Cadmium	111-1	-0.06	-0.05	-0.06	-0.06		ppb
Calcium	43-1	89709.49	89996.79	90077.47	89927.92	0.22	ppb
Calcium	44-1	88918.17	89107.26	88695.93	88907.12	0.23	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.12	-0.17	-0.14		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.05	-0.08	-0.07	-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				108		%
Holmium	165-2				109		%
Indium	115-1				109		%
Indium	115-2				117		%
Iron	54-2	1038.83	1030.32	1037.70	1035.61	0.45	ppb
Iron	56-2	1115.17	1096.61	1088.77	1100.18	1.23	ppb
Iron	57-2	1021.80	1046.82	1029.87	1032.83	1.24	ppb
Krypton	83-1						cps
Lead	206-1	0.12	0.13	0.13	0.13	2.38	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.13	0.12	0.13	0.13	2.59	ppb
Lead	208-1	0.12	0.13	0.13	0.13	1.42	ppb
Lithium	6-1				112		%
Magnesium	24-2	33498.70	34063.47	33582.84	33715.00	0.90	ppb
Manganese	55-2	14.40	14.18	14.33	14.30	0.80	ppb
Molybdenum	94-1	0.26	0.24	0.26	0.26	5.32	ppb
Molybdenum	95-1	0.31	0.30	0.31	0.31	2.10	ppb
Molybdenum	96-1	0.29	0.29	0.29	0.29	1.45	ppb
Molybdenum	97-1	0.31	0.32	0.30	0.31	3.52	ppb
Molybdenum	98-1	0.29	0.28	0.27	0.28	3.59	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.13	-0.16	-0.10	-0.13		ppb
Phosphorus	31-2	-21.75	-20.93	-15.66	-19.45		ppb
Potassium	39-2	837.93	833.53	839.87	837.11	0.39	ppb
Rhodium	103-1				108		%
Rhodium	103-2				108		%
Scandium	45-1				117		%
Scandium	45-2				115		%
Selenium	82-1	0.23	0.18	-0.09	0.11	155.87	ppb
Selenium	77-2	1.54	0.00	0.00	0.51	173.21	ppb
Selenium	78-2	-0.27	-0.06	-0.28	-0.21		ppb
Silicon	28-1	1664.99	1618.06	1655.15	1646.06	1.50	ppb
Silver	107-1	0.01	0.01	0.01	0.01	16.44	ppb
Silver	109-1	0.01	0.01	0.00	0.00	6.49	ppb
Sodium	23-2	9816.81	9786.72	9428.41	9677.31	2.23	ppb
Strontium	86-1	2510.10	2469.92	2449.70	2476.58	1.24	ppb
Strontium	88-1	2501.98	2511.49	2456.61	2490.03	1.18	ppb
Sulfur	34-1	107260.37	105311.88	104958.26	105843.50	1.17	ppb
Terbium	159-1				107		%
Terbium	159-2				108		%
Thallium	203-1	0.02	0.02	0.02	0.02	2.24	ppb
Thallium	205-1	0.01	0.01	0.02	0.02	15.14	ppb
Tin	118-1	0.03	0.02	0.02	0.02	18.58	ppb
Titanium	47-1	0.26	0.20	0.21	0.23	14.61	ppb
Uranium	238-1	0.16	0.16	0.15	0.16	1.92	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.00	121.87	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				111		%
Yttrium	89-2				112		%
Zinc	66-2	0.42	0.31	0.38	0.37	15.43	ppb
Zirconium	90-1	0.01	0.01	0.01	0.01	18.00	ppb
Zirconium	91-1	0.01	0.01	0.01	0.01	29.43	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1808.89	1818.94	1807.71	1811.85	0.34	ppb
Antimony	121-1	104.28	104.70	104.36	104.45	0.21	ppb
Arsenic	75-2	41.61	41.61	40.93	41.38	0.94	ppb
Barium	135-1	1950.34	1998.60	1947.05	1965.33	1.47	ppb
Barium	137-1	1961.00	2014.11	1976.76	1983.96	1.37	ppb
Beryllium	9-1	47.25	48.18	46.32	47.25	1.97	ppb
Bismuth	209-1				99		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	37.94	39.26	39.18	38.79	1.90	ppb
Cadmium	106-1	37.47	37.12	38.21	37.60	1.47	ppb
Cadmium	111-1	46.62	46.89	46.69	46.73	0.30	ppb
Calcium	43-1	441688.46	430746.61	435623.91	436019.66	1.26	ppb
Calcium	44-1	440376.94	425455.29	430328.54	432053.59	1.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	187.04	186.61	185.48	186.38	0.43	ppb
Cobalt	59-2	486.48	490.96	488.14	488.53	0.46	ppb
Copper	63-2	232.62	231.43	230.79	231.61	0.40	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				111		%
Indium	115-1				110		%
Indium	115-2				119		%
Iron	54-2	6092.16	6107.63	6073.58	6091.12	0.28	ppb
Iron	56-2	6243.73	6215.05	6158.61	6205.80	0.70	ppb
Iron	57-2	5901.48	5920.83	5825.68	5882.66	0.85	ppb
Krypton	83-1						cps
Lead	206-1	19.31	19.41	19.70	19.47	1.04	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.50	19.29	19.55	19.44	0.71	ppb
Lead	208-1	19.48	19.45	19.68	19.54	0.63	ppb
Lithium	6-1				112		%
Magnesium	24-2	162961.91	160261.70	160423.85	161215.82	0.94	ppb
Manganese	55-2	525.54	526.38	528.97	526.97	0.34	ppb
Molybdenum	94-1	1.24	1.23	1.25	1.24	0.71	ppb
Molybdenum	95-1	1.37	1.42	1.42	1.40	2.19	ppb
Molybdenum	96-1	1.37	1.39	1.39	1.38	0.58	ppb
Molybdenum	97-1	1.38	1.35	1.38	1.37	0.97	ppb
Molybdenum	98-1	1.36	1.42	1.40	1.39	2.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	461.93	459.33	456.70	459.32	0.57	ppb
Phosphorus	31-2	-12.99	-7.21	-11.09	-10.43		ppb
Potassium	39-2	4051.74	4073.97	4052.10	4059.27	0.31	ppb
Rhodium	103-1				105		%
Rhodium	103-2				107		%
Scandium	45-1				119		%
Scandium	45-2				120		%
Selenium	82-1	22.07	21.62	21.80	21.83	1.03	ppb
Selenium	77-2	24.03	25.39	26.77	25.39	5.40	ppb
Selenium	78-2	24.74	18.68	19.90	21.11	15.19	ppb
Silicon	28-1	8111.40	7881.75	7873.76	7955.64	1.70	ppb
Silver	107-1	42.89	43.52	43.77	43.39	1.05	ppb
Silver	109-1	43.36	44.28	44.52	44.05	1.39	ppb
Sodium	23-2	47597.99	47181.84	46415.14	47064.99	1.27	ppb
Strontium	86-1	11897.30	11997.22	12044.62	11979.71	0.63	ppb
Strontium	88-1	11912.82	11735.25	12015.56	11887.87	1.19	ppb
Sulfur	34-1	520307.50	509145.21	519425.05	516292.59	1.20	ppb
Terbium	159-1				109		%
Terbium	159-2				110		%
Thallium	203-1	47.07	47.28	48.31	47.55	1.40	ppb
Thallium	205-1	51.63	51.38	51.95	51.66	0.55	ppb
Tin	118-1	0.09	0.10	0.08	0.09	9.14	ppb
Titanium	47-1	0.99	0.96	1.00	0.98	2.10	ppb
Uranium	238-1	0.82	0.80	0.81	0.81	1.21	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	507.87	504.57	493.17	501.87	1.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				117		%
Zinc	66-2	452.60	451.63	447.72	450.65	0.57	ppb
Zirconium	90-1	0.05	0.05	0.04	0.05	7.41	ppb
Zirconium	91-1	0.08	0.08	0.07	0.08	7.03	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51.63	52.50	49.55	51.22	2.96	ppb
Antimony	121-1	0.43	0.43	0.44	0.43	1.46	ppb
Arsenic	75-2	1.64	1.65	1.59	1.63	1.78	ppb
Barium	135-1	145.37	141.74	146.38	144.50	1.69	ppb
Barium	137-1	144.95	143.36	148.81	145.71	1.92	ppb
Beryllium	9-1	0.03	0.03	0.04	0.03	6.51	ppb
Bismuth	209-1				98		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.40	0.46	0.41	0.42	7.96	ppb
Cadmium	106-1	-0.76	-0.67	-0.14	-0.53		ppb
Cadmium	111-1	0.02	0.02	0.06	0.04	68.42	ppb
Calcium	43-1	272917.68	272514.74	266704.82	270712.41	1.28	ppb
Calcium	44-1	270023.94	271620.01	263435.75	268359.90	1.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.02	-0.03	-0.06	-0.04		ppb
Cobalt	59-2	11.86	11.76	11.85	11.82	0.45	ppb
Copper	63-2	2.63	2.66	2.73	2.67	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				112		%
Holmium	165-2				112		%
Indium	115-1				112		%
Indium	115-2				124		%
Iron	54-2	1449.77	1456.74	1461.22	1455.91	0.40	ppb
Iron	56-2	1536.39	1555.24	1554.77	1548.80	0.69	ppb
Iron	57-2	1460.84	1450.36	1471.40	1460.86	0.72	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.91	0.93	0.91	2.84	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.86	0.86	0.89	0.87	2.25	ppb
Lead	208-1	0.86	0.89	0.91	0.88	3.16	ppb
Lithium	6-1				116		%
Magnesium	24-2	180308.14	179583.08	182656.03	180849.08	0.89	ppb
Manganese	55-2	2278.41	2307.98	2283.97	2290.12	0.69	ppb
Molybdenum	94-1	18.27	18.37	18.45	18.36	0.50	ppb
Molybdenum	95-1	20.87	20.62	20.87	20.79	0.70	ppb
Molybdenum	96-1	20.49	20.25	20.74	20.49	1.20	ppb
Molybdenum	97-1	20.76	20.56	20.96	20.76	0.97	ppb
Molybdenum	98-1	20.58	20.48	20.52	20.53	0.25	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	12.96	13.13	12.96	13.02	0.77	ppb
Phosphorus	31-2	77.99	77.43	76.12	77.18	1.25	ppb
Potassium	39-2	8100.18	8212.16	8356.38	8222.90	1.56	ppb
Rhodium	103-1				107		%
Rhodium	103-2				108		%
Scandium	45-1				124		%
Scandium	45-2				122		%
Selenium	82-1	6.96	7.28	7.36	7.20	2.92	ppb
Selenium	77-2	1.41	0.00	1.39	0.93	86.61	ppb
Selenium	78-2	-0.29	0.54	0.93	0.39	159.48	ppb
Silicon	28-1	6563.67	6652.87	6598.90	6605.15	0.68	ppb
Silver	107-1	0.09	0.08	0.08	0.08	7.58	ppb
Silver	109-1	0.08	0.07	0.08	0.08	7.62	ppb
Sodium	23-2	197226.33	200258.37	200037.11	199173.94	0.85	ppb
Strontium	86-1	3780.87	3740.47	3868.64	3796.66	1.73	ppb
Strontium	88-1	3819.19	3734.01	3798.55	3783.92	1.17	ppb
Sulfur	34-1	147121.35	148936.34	145553.83	147203.84	1.15	ppb
Terbium	159-1				109		%
Terbium	159-2				112		%
Thallium	203-1	0.12	0.14	0.15	0.14	12.14	ppb
Thallium	205-1	0.11	0.15	0.15	0.14	15.04	ppb
Tin	118-1	0.09	0.08	0.08	0.09	4.23	ppb
Titanium	47-1	2.01	2.10	2.94	2.35	21.85	ppb
Uranium	238-1	45.17	44.80	44.96	44.98	0.41	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.56	0.53	0.56	0.55	3.37	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				117		%
Yttrium	89-2				121		%
Zinc	66-2	6.05	6.22	6.22	6.17	1.60	ppb
Zirconium	90-1	0.56	0.57	0.56	0.56	1.59	ppb
Zirconium	91-1	0.58	0.58	0.59	0.58	1.21	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	18.50	20.27	20.14	19.64	5.01	ppb
Antimony	121-1	0.20	0.21	0.19	0.20	5.91	ppb
Arsenic	75-2	0.41	0.35	0.45	0.41	12.36	ppb
Barium	135-1	91.75	92.02	90.18	91.32	1.09	ppb
Barium	137-1	94.06	94.14	92.41	93.54	1.04	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	17.56	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	1.47	1.33	1.41	1.40	5.16	ppb
Cadmium	106-1	-0.13	-1.08	0.11	-0.37		ppb
Cadmium	111-1	0.05	-0.05	0.06	0.02	328.19	ppb
Calcium	43-1	94652.44	96591.19	95494.38	95579.33	1.02	ppb
Calcium	44-1	94817.82	95207.93	95063.59	95029.78	0.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.37	-0.34	-0.33	-0.35		ppb
Cobalt	59-2	4.41	4.60	4.58	4.53	2.31	ppb
Copper	63-2	0.65	0.61	0.65	0.64	3.30	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				114		%
Holmium	165-2				113		%
Indium	115-1				115		%
Indium	115-2				123		%
Iron	54-2	2902.41	2925.42	2919.20	2915.68	0.41	ppb
Iron	56-2	2993.60	3034.66	3043.31	3023.86	0.88	ppb
Iron	57-2	2838.56	2887.86	2893.75	2873.39	1.05	ppb
Krypton	83-1						cps
Lead	206-1	1.31	1.34	1.34	1.33	1.14	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.26	1.25	1.26	1.26	0.54	ppb
Lead	208-1	1.29	1.29	1.29	1.29	0.24	ppb
Lithium	6-1				120		%
Magnesium	24-2	111532.96	115116.79	112576.81	113075.52	1.63	ppb
Manganese	55-2	953.51	991.20	953.26	965.99	2.26	ppb
Molybdenum	94-1	91.41	93.58	94.59	93.19	1.75	ppb
Molybdenum	95-1	110.52	113.07	113.95	112.51	1.58	ppb
Molybdenum	96-1	108.28	110.33	110.85	109.82	1.24	ppb
Molybdenum	97-1	112.81	113.16	113.79	113.25	0.44	ppb
Molybdenum	98-1	122.72	121.19	120.46	121.46	0.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.70	6.94	7.04	6.89	2.52	ppb
Phosphorus	31-2	13.65	16.63	16.84	15.71	11.38	ppb
Potassium	39-2	11185.66	10993.35	11127.14	11102.05	0.89	ppb
Rhodium	103-1				111		%
Rhodium	103-2				110		%
Scandium	45-1				124		%
Scandium	45-2				122		%
Selenium	82-1	2.42	2.57	2.74	2.58	6.22	ppb
Selenium	77-2	0.71	0.00	0.71	0.47	86.60	ppb
Selenium	78-2	-0.29	0.12	0.96	0.27	241.50	ppb
Silicon	28-1	2864.34	2932.59	2962.86	2919.93	1.73	ppb
Silver	107-1	0.02	0.02	0.01	0.02	14.61	ppb
Silver	109-1	0.02	0.01	0.02	0.02	16.14	ppb
Sodium	23-2	81412.09	83121.33	82194.97	82242.80	1.04	ppb
Strontium	86-1	1111.10	1146.88	1121.27	1126.42	1.64	ppb
Strontium	88-1	1127.29	1125.76	1136.89	1129.98	0.53	ppb
Sulfur	34-1	87078.87	89191.25	89508.56	88592.89	1.49	ppb
Terbium	159-1				113		%
Terbium	159-2				113		%
Thallium	203-1	0.11	0.11	0.11	0.11	4.29	ppb
Thallium	205-1	0.11	0.10	0.11	0.11	3.15	ppb
Tin	118-1	0.63	0.63	0.61	0.62	1.85	ppb
Titanium	47-1	0.80	0.82	0.74	0.79	5.18	ppb
Uranium	238-1	3.11	3.16	3.17	3.14	1.05	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.08	0.08	0.08	6.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				119		%
Yttrium	89-2				120		%
Zinc	66-2	2.53	2.75	2.64	2.64	4.28	ppb
Zirconium	90-1	0.06	0.06	0.06	0.06	3.82	ppb
Zirconium	91-1	0.06	0.07	0.07	0.06	9.16	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4.31	3.74	4.34	4.13	8.23	ppb
Antimony	121-1	0.14	0.12	0.13	0.13	7.76	ppb
Arsenic	75-2	0.59	0.59	0.61	0.60	2.66	ppb
Barium	135-1	48.07	48.35	49.20	48.54	1.21	ppb
Barium	137-1	48.96	48.93	49.31	49.07	0.43	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	15.28	ppb
Bismuth	209-1				102		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.15	0.12	0.11	0.13	18.97	ppb
Cadmium	106-1	-0.68	-0.45	-0.01	-0.38		ppb
Cadmium	111-1	0.04	0.06	0.08	0.06	34.71	ppb
Calcium	43-1	177871.40	173204.55	176893.75	175989.90	1.40	ppb
Calcium	44-1	175302.78	174560.18	175506.82	175123.26	0.28	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.41	-0.43	-0.40	-0.41		ppb
Cobalt	59-2	0.13	0.14	0.15	0.14	4.14	ppb
Copper	63-2	0.64	0.68	0.66	0.66	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				110		%
Holmium	165-2				109		%
Indium	115-1				112		%
Indium	115-2				115		%
Iron	54-2	10.67	11.21	11.83	11.24	5.17	ppb
Iron	56-2	12.17	12.25	12.82	12.41	2.86	ppb
Iron	57-2	17.62	15.99	16.24	16.61	5.27	ppb
Krypton	83-1						cps
Lead	206-1	0.47	0.50	0.51	0.49	3.65	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.50	0.46	0.45	0.47	5.69	ppb
Lead	208-1	0.48	0.47	0.47	0.48	1.05	ppb
Lithium	6-1				114		%
Magnesium	24-2	41205.11	40890.41	42208.37	41434.63	1.66	ppb
Manganese	55-2	15.37	14.69	15.27	15.11	2.43	ppb
Molybdenum	94-1	1.50	1.54	1.52	1.52	1.11	ppb
Molybdenum	95-1	1.53	1.54	1.50	1.53	1.22	ppb
Molybdenum	96-1	1.50	1.53	1.52	1.52	1.03	ppb
Molybdenum	97-1	1.53	1.53	1.56	1.54	1.42	ppb
Molybdenum	98-1	1.50	1.54	1.56	1.53	1.87	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.95	1.04	0.98	5.58	ppb
Phosphorus	31-2	-1.08	0.69	0.75	0.12	893.21	ppb
Potassium	39-2	1930.22	1951.70	1998.35	1960.09	1.78	ppb
Rhodium	103-1				108		%
Rhodium	103-2				106		%
Scandium	45-1				120		%
Scandium	45-2				116		%
Selenium	82-1	0.36	0.44	0.38	0.39	11.08	ppb
Selenium	77-2	0.73	0.00	0.00	0.24	173.21	ppb
Selenium	78-2	-0.07	0.15	0.39	0.16	144.97	ppb
Silicon	28-1	3279.83	3229.25	3292.69	3267.26	1.03	ppb
Silver	107-1	0.01	0.01	0.01	0.01	23.58	ppb
Silver	109-1	0.01	0.01	0.01	0.01	17.10	ppb
Sodium	23-2	90478.93	90137.45	92517.14	91044.51	1.41	ppb
Strontium	86-1	1832.81	1875.93	1889.11	1865.95	1.58	ppb
Strontium	88-1	1862.74	1878.44	1874.19	1871.79	0.43	ppb
Sulfur	34-1	48245.95	47373.97	48471.69	48030.53	1.21	ppb
Terbium	159-1				109		%
Terbium	159-2				109		%
Thallium	203-1	0.03	0.02	0.03	0.03	10.22	ppb
Thallium	205-1	0.03	0.03	0.02	0.03	15.01	ppb
Tin	118-1	-0.01	-0.01	-0.01	-0.01		ppb
Titanium	47-1	0.42	0.46	0.44	0.44	3.68	ppb
Uranium	238-1	6.86	6.93	6.84	6.88	0.67	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.34	0.30	0.35	0.33	7.47	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				114		%
Zinc	66-2	1.22	1.20	1.29	1.23	3.76	ppb
Zirconium	90-1	0.12	0.14	0.18	0.15	20.72	ppb
Zirconium	91-1	0.13	0.13	0.13	0.13	1.27	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	3.65	3.95	3.85	3.82	4.03	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	26.36	ppb
Arsenic	75-2	0.08	-0.01	0.05	0.04	122.86	ppb
Barium	135-1	10.12	10.25	10.26	10.21	0.78	ppb
Barium	137-1	10.36	10.64	10.13	10.37	2.48	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	7.92	ppb
Bismuth	209-1				91		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.04	0.01	0.02	67.64	ppb
Cadmium	106-1	0.31	-0.31	-0.13	-0.04		ppb
Cadmium	111-1	0.03	-0.02	0.00	0.00	688.84	ppb
Calcium	43-1	461050.67	467621.20	455223.59	461298.49	1.34	ppb
Calcium	44-1	455419.68	460702.35	456636.06	457586.03	0.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.45	-0.45	-0.43	-0.45		ppb
Cobalt	59-2	-0.02	-0.02	-0.02	-0.02		ppb
Copper	63-2	0.00	0.01	0.00	0.01	65.55	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				104		%
Holmium	165-2				106		%
Indium	115-1				102		%
Indium	115-2				106		%
Iron	54-2	9.72	7.80	10.08	9.20	13.34	ppb
Iron	56-2	10.13	9.95	10.13	10.07	1.00	ppb
Iron	57-2	20.69	23.53	22.15	22.12	6.41	ppb
Krypton	83-1						cps
Lead	206-1	0.09	0.10	0.10	0.09	2.46	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.09	0.10	0.10	0.09	6.42	ppb
Lead	208-1	0.09	0.10	0.09	0.09	4.29	ppb
Lithium	6-1				107		%
Magnesium	24-2	127109.69	125141.67	122830.56	125027.31	1.71	ppb
Manganese	55-2	20.46	20.42	20.31	20.40	0.40	ppb
Molybdenum	94-1	0.06	0.05	0.07	0.06	20.76	ppb
Molybdenum	95-1	-0.02	-0.02	-0.02	-0.02		ppb
Molybdenum	96-1	-0.01	-0.02	-0.01	-0.01		ppb
Molybdenum	97-1	-0.03	-0.02	-0.03	-0.02		ppb
Molybdenum	98-1	-0.03	-0.03	-0.02	-0.03		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.37	-0.33	-0.44	-0.38		ppb
Phosphorus	31-2	-13.50	-15.52	-9.02	-12.68		ppb
Potassium	39-2	4105.73	4039.87	4041.85	4062.48	0.92	ppb
Rhodium	103-1				97		%
Rhodium	103-2				100		%
Scandium	45-1				112		%
Scandium	45-2				114		%
Selenium	82-1	0.40	0.25	1.15	0.60	80.70	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.16	-0.06	0.40	0.17	134.02	ppb
Silicon	28-1	6203.23	6263.49	6236.52	6234.41	0.48	ppb
Silver	107-1	0.02	0.03	0.04	0.03	24.00	ppb
Silver	109-1	0.02	0.03	0.04	0.03	33.63	ppb
Sodium	23-2	245465.01	243549.13	237987.55	242333.90	1.60	ppb
Strontium	86-1	15123.34	15114.29	15102.63	15113.42	0.07	ppb
Strontium	88-1	15373.44	15034.94	15141.56	15183.31	1.14	ppb
Sulfur	34-1	400807.19	408206.32	394850.36	401287.96	1.67	ppb
Terbium	159-1				103		%
Terbium	159-2				105		%
Thallium	203-1	0.02	0.03	0.03	0.02	24.63	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	22.12	ppb
Tin	118-1	-0.02	-0.02	-0.02	-0.02		ppb
Titanium	47-1	0.70	0.69	0.73	0.71	2.97	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	2.71	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.08	0.07	0.07	0.08	8.68	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				112		%
Zinc	66-2	0.29	0.13	0.20	0.21	39.13	ppb
Zirconium	90-1	0.05	0.04	0.04	0.04	6.74	ppb
Zirconium	91-1	0.05	0.04	0.04	0.04	1.05	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.24	-0.02	-0.06	0.06	291.20	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	37.66	ppb
Arsenic	75-2	-0.02	0.01	-0.01	-0.01		ppb
Barium	135-1	-0.04	-0.04	-0.03	-0.04		ppb
Barium	137-1	-0.05	-0.05	-0.04	-0.05		ppb
Beryllium	9-1	0.01	0.00	0.01	0.01	64.05	ppb
Bismuth	209-1				101		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	-0.01	0.02	0.04	0.02	152.97	ppb
Cadmium	106-1	-0.07	-0.16	-0.16	-0.13		ppb
Cadmium	111-1	0.00	-0.01	-0.02	-0.01		ppb
Calcium	43-1	22.55	18.36	16.03	18.98	17.41	ppb
Calcium	44-1	17.86	14.54	13.71	15.37	14.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.10	-0.02	-0.05	-0.06		ppb
Cobalt	59-2	-0.02	-0.02	-0.02	-0.02		ppb
Copper	63-2	0.03	0.02	-0.02	0.01	424.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				107		%
Iron	54-2	-1.18	-0.96	-0.92	-1.02		ppb
Iron	56-2	-0.77	-0.74	-0.79	-0.77		ppb
Iron	57-2	0.08	-0.42	0.31	-0.01		ppb
Krypton	83-1						cps
Lead	206-1	0.05	0.05	0.05	0.05	3.47	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.04	0.05	0.04	0.04	6.67	ppb
Lead	208-1	0.05	0.05	0.04	0.04	1.62	ppb
Lithium	6-1				112		%
Magnesium	24-2	-1.43	-1.96	-2.92	-2.10		ppb
Manganese	55-2	-0.01	-0.03	-0.03	-0.02		ppb
Molybdenum	94-1	0.00	0.00	0.01	0.01	111.53	ppb
Molybdenum	95-1	0.01	0.01	0.02	0.02	27.74	ppb
Molybdenum	96-1	0.02	0.01	0.02	0.01	39.18	ppb
Molybdenum	97-1	0.01	0.01	0.01	0.01	30.66	ppb
Molybdenum	98-1	0.01	0.01	0.01	0.01	20.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.18	-0.09	-0.12	-0.13		ppb
Phosphorus	31-2	-23.56	-29.13	-26.23	-26.31		ppb
Potassium	39-2	10.07	9.28	10.52	9.96	6.30	ppb
Rhodium	103-1				107		%
Rhodium	103-2				108		%
Scandium	45-1				112		%
Scandium	45-2				110		%
Selenium	82-1	0.25	0.12	0.06	0.14	66.74	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.20	0.18	0.18	0.19	4.47	ppb
Silicon	28-1	5.18	4.90	4.63	4.90	5.59	ppb
Silver	107-1	0.01	0.01	0.01	0.01	28.42	ppb
Silver	109-1	0.01	0.01	0.01	0.01	11.73	ppb
Sodium	23-2	35.26	37.58	34.35	35.73	4.66	ppb
Strontium	86-1	0.72	0.52	0.43	0.56	26.21	ppb
Strontium	88-1	0.77	0.55	0.52	0.61	22.59	ppb
Sulfur	34-1	1099.32	1253.23	1231.41	1194.65	6.97	ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.02	0.02	0.03	0.02	17.26	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	15.30	ppb
Tin	118-1	0.01	0.00	0.00	0.00		ppb
Titanium	47-1	-0.01	-0.01	0.00	0.00		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	-0.01	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				108		%
Yttrium	89-2				109		%
Zinc	66-2	0.04	0.06	0.07	0.06	27.33	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	14505.48	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	43.25	41.16	42.41	42.27	2.48	ppb
Antimony	121-1	4.09	4.08	4.09	4.08	0.15	ppb
Arsenic	75-2	2.34	2.42	2.15	2.30	5.91	ppb
Barium	135-1	19.86	19.82	19.86	19.85	0.12	ppb
Barium	137-1	20.15	20.08	20.28	20.17	0.52	ppb
Beryllium	9-1	2.06	2.10	2.03	2.07	1.74	ppb
Bismuth	209-1				100		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.93	2.50	2.14	2.19	13.12	ppb
Cadmium	106-1	1.70	1.49	2.42	1.87	26.12	ppb
Cadmium	111-1	2.07	2.16	2.09	2.11	2.23	ppb
Calcium	43-1	1037.57	1065.45	1052.15	1051.72	1.33	ppb
Calcium	44-1	1029.78	1049.07	1050.07	1042.97	1.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	3.69	3.84	4.01	3.85	4.14	ppb
Cobalt	59-2	2.10	2.14	2.07	2.10	1.74	ppb
Copper	63-2	4.56	4.61	4.64	4.60	0.93	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				107		%
Indium	115-2				106		%
Iron	54-2	423.28	432.54	431.22	429.02	1.17	ppb
Iron	56-2	422.08	429.03	428.92	426.68	0.93	ppb
Iron	57-2	413.87	424.60	433.41	423.96	2.31	ppb
Krypton	83-1						cps
Lead	206-1	1.93	2.04	1.98	1.98	2.88	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.98	2.01	2.09	2.03	2.61	ppb
Lead	208-1	1.96	2.02	2.01	1.99	1.53	ppb
Lithium	6-1				111		%
Magnesium	24-2	988.02	997.88	1013.09	999.66	1.26	ppb
Manganese	55-2	2.02	2.13	1.97	2.04	4.12	ppb
Molybdenum	94-1	11.44	11.44	11.80	11.56	1.79	ppb
Molybdenum	95-1	9.75	9.73	9.96	9.81	1.28	ppb
Molybdenum	96-1	9.73	9.77	9.99	9.83	1.41	ppb
Molybdenum	97-1	9.77	9.85	9.90	9.84	0.65	ppb
Molybdenum	98-1	9.66	9.64	9.83	9.71	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.80	1.92	1.89	1.87	3.25	ppb
Phosphorus	31-2	29.55	39.27	25.97	31.60	21.78	ppb
Potassium	39-2	1003.92	1008.13	1013.61	1008.55	0.48	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				108		%
Selenium	82-1	11.09	11.18	11.04	11.10	0.65	ppb
Selenium	77-2	8.75	9.46	13.67	10.62	25.04	ppb
Selenium	78-2	11.18	10.15	11.55	10.96	6.58	ppb
Silicon	28-1	17.97	18.07	22.12	19.39	12.21	ppb
Silver	107-1	2.03	2.06	2.10	2.06	1.70	ppb
Silver	109-1	2.05	2.05	2.05	2.05	0.19	ppb
Sodium	23-2	1090.41	1106.22	1106.81	1101.15	0.84	ppb
Strontium	86-1	2.07	1.99	2.04	2.03	2.01	ppb
Strontium	88-1	2.07	2.03	2.07	2.06	1.15	ppb
Sulfur	34-1	740.07	901.39	731.06	790.84	12.12	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	1.95	1.96	1.96	1.96	0.26	ppb
Thallium	205-1	1.95	1.99	1.98	1.97	1.15	ppb
Tin	118-1	10.27	10.22	10.41	10.30	0.95	ppb
Titanium	47-1	2.33	2.52	2.42	2.42	3.89	ppb
Uranium	238-1	1.79	1.80	1.83	1.81	0.99	ppb

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	10.22	10.32	10.53	10.36	1.54	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	10.68	10.35	10.41	10.48	1.66	ppb
Zirconium	90-1	1.93	1.93	1.96	1.94	0.74	ppb
Zirconium	91-1	2.00	1.88	1.94	1.94	3.01	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1206.21	1205.70	1218.43	1210.12	0.60	ppb
Antimony	121-1	0.07	0.07	0.07	0.07	1.37	ppb
Arsenic	75-2	2.27	2.55	1.99	2.27	12.31	ppb
Barium	135-1	30.30	31.19	31.50	31.00	2.01	ppb
Barium	137-1	30.53	31.90	32.15	31.52	2.77	ppb
Beryllium	9-1	0.10	0.11	0.10	0.10	4.55	ppb
Bismuth	209-1				87		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	0.27	0.42	0.44	0.38	23.74	ppb
Cadmium	106-1	-0.56	0.22	0.06	-0.09		ppb
Cadmium	111-1	0.09	0.13	0.13	0.12	19.37	ppb
Calcium	43-1	469247.30	474630.12	471522.60	471800.01	0.57	ppb
Calcium	44-1	462871.25	475809.03	466301.01	468327.09	1.43	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.23	2.14	2.20	2.19	2.24	ppb
Cobalt	59-2	0.92	0.86	0.91	0.90	3.35	ppb
Copper	63-2	2.55	2.52	2.57	2.55	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				101		%
Indium	115-1				97		%
Indium	115-2				99		%
Iron	54-2	5345.32	5338.86	5358.87	5347.68	0.19	ppb
Iron	56-2	5614.83	5664.14	5660.94	5646.63	0.49	ppb
Iron	57-2	5357.65	5316.59	5322.12	5332.12	0.42	ppb
Krypton	83-1						cps
Lead	206-1	1.79	1.86	1.81	1.82	2.13	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.66	1.72	1.71	1.69	1.86	ppb
Lead	208-1	1.69	1.75	1.74	1.73	1.84	ppb
Lithium	6-1				101		%
Magnesium	24-2	146996.46	146044.89	143898.17	145646.51	1.09	ppb
Manganese	55-2	81.73	82.91	82.31	82.32	0.72	ppb
Molybdenum	94-1	6.40	5.42	5.40	5.74	9.99	ppb
Molybdenum	95-1	3.83	3.92	3.86	3.87	1.14	ppb
Molybdenum	96-1	4.03	4.03	4.03	4.03	0.08	ppb
Molybdenum	97-1	3.76	3.87	3.92	3.85	2.16	ppb
Molybdenum	98-1	3.78	3.81	3.94	3.84	2.17	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.23	3.29	3.30	3.27	1.17	ppb
Phosphorus	31-2	92.56	110.99	122.98	108.84	14.08	ppb
Potassium	39-2	5541.44	5546.19	5580.93	5556.19	0.39	ppb
Rhodium	103-1				92		%
Rhodium	103-2				93		%
Scandium	45-1				106		%
Scandium	45-2				107		%
Selenium	82-1	0.62	0.32	0.55	0.49	31.64	ppb
Selenium	77-2	3.22	3.16	2.38	2.92	15.94	ppb
Selenium	78-2	1.15	0.89	2.53	1.53	57.77	ppb
Silicon	28-1	8640.74	9029.83	8938.77	8869.78	2.29	ppb
Silver	107-1	0.08	0.07	0.07	0.08	7.93	ppb
Silver	109-1	0.07	0.06	0.06	0.06	11.33	ppb
Sodium	23-2	523690.23	513804.15	516908.72	518134.36	0.98	ppb
Strontium	86-1	22475.32	22566.70	23089.39	22710.47	1.46	ppb
Strontium	88-1	22423.94	22596.00	22917.93	22645.96	1.11	ppb
Sulfur	34-1	259028.84	263850.59	265207.18	262695.53	1.24	ppb
Terbium	159-1				99		%
Terbium	159-2				100		%
Thallium	203-1	0.09	0.11	0.11	0.10	8.17	ppb
Thallium	205-1	0.09	0.10	0.10	0.10	9.02	ppb
Tin	118-1	0.15	0.13	0.15	0.14	8.53	ppb
Titanium	47-1	34.02	42.47	43.07	39.85	12.70	ppb
Uranium	238-1	0.67	0.69	0.69	0.68	1.90	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	3.52	3.59	3.64	3.58	1.66	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				107		%
Zinc	66-2	8.42	8.44	8.48	8.45	0.35	ppb
Zirconium	90-1	1.32	1.18	1.32	1.27	6.32	ppb
Zirconium	91-1	1.19	1.19	1.26	1.21	3.02	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	201.26	206.28	210.20	205.91	2.18	ppb
Antimony	121-1	0.48	0.49	0.49	0.49	1.47	ppb
Arsenic	75-2	1.26	1.48	1.32	1.35	8.57	ppb
Barium	135-1	187.38	190.39	187.74	188.50	0.87	ppb
Barium	137-1	206.59	206.78	204.45	205.94	0.63	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	5.55	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.55	0.62	0.61	0.59	6.59	ppb
Cadmium	106-1	0.28	0.25	0.13	0.22	35.82	ppb
Cadmium	111-1	0.30	0.36	0.32	0.33	9.50	ppb
Calcium	43-1	298261.99	305407.10	306091.89	303253.66	1.43	ppb
Calcium	44-1	295773.35	301235.77	307678.49	301562.54	1.98	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.33	0.28	0.33	0.31	8.62	ppb
Cobalt	59-2	1.48	1.44	1.48	1.47	1.75	ppb
Copper	63-2	1.42	1.42	1.46	1.43	1.84	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				108		%
Iron	54-2	1118.00	1115.22	1129.54	1120.92	0.68	ppb
Iron	56-2	1189.78	1176.25	1182.76	1182.93	0.57	ppb
Iron	57-2	1114.82	1104.32	1123.88	1114.34	0.88	ppb
Krypton	83-1						cps
Lead	206-1	0.80	0.79	0.81	0.80	1.30	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.78	0.77	0.74	0.76	3.07	ppb
Lead	208-1	0.76	0.78	0.76	0.77	1.24	ppb
Lithium	6-1				111		%
Magnesium	24-2	57445.77	58239.54	57709.25	57798.19	0.70	ppb
Manganese	55-2	262.50	262.38	263.71	262.86	0.28	ppb
Molybdenum	94-1	22.80	23.21	22.89	22.96	0.94	ppb
Molybdenum	95-1	26.48	27.04	27.03	26.85	1.20	ppb
Molybdenum	96-1	25.85	26.81	26.29	26.31	1.83	ppb
Molybdenum	97-1	26.41	27.09	26.82	26.77	1.28	ppb
Molybdenum	98-1	26.37	27.01	26.46	26.61	1.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.66	4.64	4.75	4.68	1.23	ppb
Phosphorus	31-2	58.22	36.26	48.69	47.72	23.08	ppb
Potassium	39-2	2022.19	2019.00	2047.73	2029.64	0.78	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				114		%
Selenium	82-1	1.81	2.07	2.32	2.07	12.31	ppb
Selenium	77-2	0.00	1.51	2.27	1.26	91.73	ppb
Selenium	78-2	1.27	1.05	2.83	1.72	56.50	ppb
Silicon	28-1	4186.54	4239.69	4253.06	4226.43	0.83	ppb
Silver	107-1	0.02	0.01	0.02	0.02	11.93	ppb
Silver	109-1	0.01	0.01	0.01	0.01	3.32	ppb
Sodium	23-2	100630.38	102433.15	100892.84	101318.79	0.96	ppb
Strontium	86-1	6354.46	6557.93	6453.26	6455.21	1.58	ppb
Strontium	88-1	6394.90	6569.08	6446.16	6470.05	1.38	ppb
Sulfur	34-1	131076.97	133870.60	136387.43	133778.33	1.99	ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.03	0.03	0.03	6.87	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	10.25	ppb
Tin	118-1	-0.02	-0.01	0.00	-0.01		ppb
Titanium	47-1	5.03	4.87	5.32	5.07	4.45	ppb
Uranium	238-1	27.72	28.23	28.12	28.02	0.96	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.65	0.66	0.68	0.66	2.09	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				113		%
Zinc	66-2	12.58	12.88	12.12	12.53	3.04	ppb
Zirconium	90-1	0.50	0.52	0.50	0.51	2.81	ppb
Zirconium	91-1	0.53	0.53	0.49	0.52	3.98	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12.26	9.69	12.00	11.32	12.48	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	22.35	ppb
Arsenic	75-2	0.40	0.34	0.44	0.39	12.72	ppb
Barium	135-1	37.95	37.86	38.52	38.11	0.94	ppb
Barium	137-1	38.32	38.60	39.34	38.75	1.36	ppb
Beryllium	9-1	0.01	0.01	0.00	0.01	45.47	ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.12	0.06	0.15	0.11	38.69	ppb
Cadmium	106-1	0.52	-0.05	-0.23	0.08	473.78	ppb
Cadmium	111-1	0.09	0.05	0.03	0.06	48.33	ppb
Calcium	43-1	242346.50	235112.99	239053.74	238837.74	1.52	ppb
Calcium	44-1	236369.11	229813.95	237769.23	234650.76	1.81	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		ppb
Cobalt	59-2	0.01	0.01	0.01	0.01	13.31	ppb
Copper	63-2	0.01	0.05	0.04	0.04	66.02	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				106		%
Holmium	165-2				106		%
Indium	115-1				107		%
Indium	115-2				107		%
Iron	54-2	169.12	167.60	163.00	166.57	1.91	ppb
Iron	56-2	167.91	167.74	166.59	167.41	0.43	ppb
Iron	57-2	173.54	171.94	172.61	172.69	0.47	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.25	0.24	0.24	3.02	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.23	0.22	0.23	5.54	ppb
Lead	208-1	0.24	0.23	0.23	0.23	1.83	ppb
Lithium	6-1				109		%
Magnesium	24-2	70199.39	69225.82	68047.99	69157.73	1.56	ppb
Manganese	55-2	42.31	42.47	40.98	41.92	1.96	ppb
Molybdenum	94-1	0.37	0.33	0.35	0.35	4.89	ppb
Molybdenum	95-1	0.07	0.06	0.07	0.06	6.71	ppb
Molybdenum	96-1	0.09	0.09	0.10	0.09	2.71	ppb
Molybdenum	97-1	0.06	0.06	0.07	0.06	8.88	ppb
Molybdenum	98-1	0.05	0.05	0.06	0.06	10.11	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.05	-0.03	-0.03		ppb
Phosphorus	31-2	12.44	26.01	5.61	14.69	70.72	ppb
Potassium	39-2	3188.58	3203.93	3146.53	3179.68	0.93	ppb
Rhodium	103-1				102		%
Rhodium	103-2				102		%
Scandium	45-1				113		%
Scandium	45-2				112		%
Selenium	82-1	0.48	0.35	0.41	0.41	15.57	ppb
Selenium	77-2	0.76	0.00	0.00	0.25	173.21	ppb
Selenium	78-2	1.28	-0.27	0.18	0.39	202.14	ppb
Silicon	28-1	5884.08	5682.92	5850.52	5805.84	1.86	ppb
Silver	107-1	0.02	0.01	0.01	0.01	14.14	ppb
Silver	109-1	0.01	0.00	0.01	0.01	34.96	ppb
Sodium	23-2	89301.13	89086.99	87800.11	88729.41	0.92	ppb
Strontium	86-1	16951.92	16770.84	16789.61	16837.46	0.59	ppb
Strontium	88-1	16892.55	16827.93	16840.55	16853.68	0.20	ppb
Sulfur	34-1	162435.53	158840.41	161843.47	161039.80	1.20	ppb
Terbium	159-1				104		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.01	0.01	0.01	31.80	ppb
Thallium	205-1	0.01	0.00	0.01	0.01	13.48	ppb
Tin	118-1	0.00	0.01	0.02	0.01	78.67	ppb
Titanium	47-1	0.81	0.77	0.79	0.79	2.70	ppb
Uranium	238-1	0.16	0.16	0.17	0.16	1.25	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.20	0.19	0.20	0.20	2.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				111		%
Zinc	66-2	1.11	1.07	0.96	1.05	7.54	ppb
Zirconium	90-1	0.17	0.17	0.17	0.17	1.89	ppb
Zirconium	91-1	0.17	0.16	0.17	0.17	3.65	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5117.56	5150.70	5155.91	5141.39	0.40	ppb
Antimony	121-1	0.76	0.79	0.77	0.77	2.10	ppb
Arsenic	75-2	5.74	5.45	5.63	5.61	2.58	ppb
Barium	135-1	123.26	123.32	124.70	123.76	0.66	ppb
Barium	137-1	125.79	125.87	127.45	126.37	0.74	ppb
Beryllium	9-1	0.27	0.28	0.27	0.27	2.03	ppb
Bismuth	209-1				94		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	1.30	1.23	1.26	1.26	2.64	ppb
Cadmium	106-1	1.05	0.53	0.88	0.82	32.86	ppb
Cadmium	111-1	0.38	0.36	0.40	0.38	6.36	ppb
Calcium	43-1	485801.84	476726.20	472169.21	478232.42	1.45	ppb
Calcium	44-1	483610.55	474805.22	467531.69	475315.82	1.69	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	10.89	11.06	10.89	10.95	0.93	ppb
Cobalt	59-2	18.27	18.33	18.27	18.29	0.21	ppb
Copper	63-2	11.73	11.82	11.77	11.77	0.38	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				105		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	54-2	10748.76	10779.83	10632.77	10720.45	0.72	ppb
Iron	56-2	10711.74	10761.25	10661.85	10711.61	0.46	ppb
Iron	57-2	10048.27	10145.23	10039.05	10077.52	0.58	ppb
Krypton	83-1						cps
Lead	206-1	5.48	5.44	5.38	5.43	0.97	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.12	5.10	5.07	5.10	0.51	ppb
Lead	208-1	5.25	5.23	5.18	5.22	0.70	ppb
Lithium	6-1				107		%
Magnesium	24-2	199653.21	199863.38	196935.16	198817.25	0.82	ppb
Manganese	55-2	3303.52	3271.84	3275.95	3283.77	0.52	ppb
Molybdenum	94-1	28.07	27.82	28.34	28.08	0.92	ppb
Molybdenum	95-1	22.69	22.86	23.00	22.85	0.68	ppb
Molybdenum	96-1	23.19	23.56	23.05	23.27	1.13	ppb
Molybdenum	97-1	22.73	22.60	22.92	22.75	0.71	ppb
Molybdenum	98-1	22.47	22.77	22.50	22.58	0.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	31.74	31.76	31.62	31.71	0.24	ppb
Phosphorus	31-2	285.12	311.19	326.37	307.56	6.78	ppb
Potassium	39-2	13858.48	13985.88	14178.05	14007.47	1.15	ppb
Rhodium	103-1				98		%
Rhodium	103-2				98		%
Scandium	45-1				114		%
Scandium	45-2				111		%
Selenium	82-1	2.14	2.43	2.21	2.26	6.74	ppb
Selenium	77-2	9.25	9.78	10.81	9.95	8.00	ppb
Selenium	78-2	3.80	1.71	1.77	2.43	49.07	ppb
Silicon	28-1	13817.75	13289.15	13162.40	13423.10	2.59	ppb
Silver	107-1	0.04	0.04	0.05	0.05	7.64	ppb
Silver	109-1	0.03	0.04	0.05	0.04	17.11	ppb
Sodium	23-2	65093.96	66351.15	63980.49	65141.86	1.82	ppb
Strontium	86-1	11253.55	11467.30	11290.71	11337.19	1.01	ppb
Strontium	88-1	11455.54	11429.78	11361.09	11415.47	0.43	ppb
Sulfur	34-1	547385.55	545041.43	537001.71	543142.89	1.00	ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	0.22	0.22	0.21	0.22	2.43	ppb
Thallium	205-1	0.21	0.21	0.21	0.21	1.54	ppb
Tin	118-1	0.89	0.87	0.85	0.87	2.17	ppb
Titanium	47-1	118.65	114.47	109.76	114.29	3.89	ppb
Uranium	238-1	22.73	22.66	22.38	22.59	0.82	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	14.54	14.22	14.22	14.33	1.28	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	35.34	36.08	34.69	35.37	1.97	ppb
Zirconium	90-1	4.98	5.11	5.04	5.04	1.33	ppb
Zirconium	91-1	4.88	5.26	4.98	5.04	3.88	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	57.42	58.15	55.16	56.91	2.73	ppb
Antimony	121-1	0.96	0.96	1.00	0.98	2.07	ppb
Arsenic	75-2	0.23	0.24	0.25	0.24	4.48	ppb
Barium	135-1	14.89	14.76	14.61	14.75	0.97	ppb
Barium	137-1	15.21	14.85	14.94	15.00	1.23	ppb
Beryllium	9-1	0.00	0.01	0.01	0.01	59.84	ppb
Bismuth	209-1				94		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	0.11	0.26	0.21	0.20	37.74	ppb
Cadmium	106-1	-0.67	-0.88	-0.78	-0.78		ppb
Cadmium	111-1	0.16	0.13	0.16	0.15	12.48	ppb
Calcium	43-1	330406.65	335168.79	334889.63	333488.36	0.80	ppb
Calcium	44-1	327464.40	333505.89	334326.41	331765.57	1.13	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.64	0.61	0.68	0.65	5.24	ppb
Cobalt	59-2	15.75	15.56	15.85	15.72	0.94	ppb
Copper	63-2	44.37	43.90	44.32	44.20	0.59	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				105		%
Indium	115-2				106		%
Iron	54-2	537.26	536.97	540.93	538.38	0.41	ppb
Iron	56-2	570.60	571.44	576.49	572.84	0.56	ppb
Iron	57-2	545.44	539.07	546.44	543.65	0.74	ppb
Krypton	83-1						cps
Lead	206-1	1.46	1.46	1.46	1.46	0.30	ppb

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.37	1.33	1.37	1.36	2.01	ppb
Lead	208-1	1.41	1.54	1.41	1.46	5.06	ppb
Lithium	6-1				110		%
Magnesium	24-2	107705.62	109999.64	109363.48	109022.91	1.09	ppb
Manganese	55-2	71.37	70.65	70.08	70.70	0.92	ppb
Molybdenum	94-1	0.73	0.69	0.72	0.71	2.28	ppb
Molybdenum	95-1	0.70	0.64	0.65	0.66	4.84	ppb
Molybdenum	96-1	0.67	0.65	0.68	0.67	2.71	ppb
Molybdenum	97-1	0.66	0.72	0.68	0.68	4.48	ppb
Molybdenum	98-1	0.64	0.64	0.65	0.64	1.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.29	1.17	1.21	1.22	4.76	ppb
Phosphorus	31-2	2451.62	2452.77	2438.64	2447.67	0.32	ppb
Potassium	39-2	6376.21	6344.87	6332.71	6351.26	0.35	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				114		%
Scandium	45-2				113		%
Selenium	82-1	0.76	0.72	0.58	0.68	13.46	ppb
Selenium	77-2	0.00	1.56	0.00	0.52	173.21	ppb
Selenium	78-2	0.18	-0.27	-0.50	-0.20		ppb
Silicon	28-1	4375.51	4499.89	4548.83	4474.74	2.00	ppb
Silver	107-1	0.02	0.03	0.02	0.02	12.73	ppb
Silver	109-1	0.02	0.02	0.02	0.02	5.15	ppb
Sodium	23-2	117596.28	118505.87	117290.19	117797.45	0.54	ppb
Strontium	86-1	9307.12	8959.33	9292.60	9186.35	2.14	ppb
Strontium	88-1	9231.75	8922.98	9231.14	9128.62	1.95	ppb
Sulfur	34-1	342068.58	353284.51	351220.03	348857.71	1.71	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.01	0.01	0.01	0.01	27.51	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	15.59	ppb
Tin	118-1	1.03	1.08	1.07	1.06	2.69	ppb
Titanium	47-1	3.81	3.59	3.68	3.69	3.07	ppb
Uranium	238-1	0.21	0.20	0.21	0.20	2.52	ppb

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.24	0.23	0.26	0.24	6.56	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				110		%
Zinc	66-2	14.66	15.55	15.01	15.07	2.97	ppb
Zirconium	90-1	0.09	0.09	0.08	0.09	4.88	ppb
Zirconium	91-1	0.11	0.09	0.11	0.10	6.82	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6.25	6.04	6.21	6.17	1.79	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	0.90	ppb
Arsenic	75-2	0.07	0.06	0.01	0.04	72.57	ppb
Barium	135-1	20.51	20.29	20.57	20.46	0.72	ppb
Barium	137-1	20.57	21.06	20.82	20.82	1.17	ppb
Beryllium	9-1	0.01	0.01	0.01	0.01	5.84	ppb
Bismuth	209-1				96		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	0.04	0.04	0.05	0.04	20.71	ppb
Cadmium	106-1	-0.51	-0.35	0.00	-0.29		ppb
Cadmium	111-1	0.02	0.02	0.06	0.04	54.08	ppb
Calcium	43-1	246984.63	244568.21	247107.15	246220.00	0.58	ppb
Calcium	44-1	241541.13	241122.24	239516.97	240726.78	0.44	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.13	-0.13	-0.13	-0.13		ppb
Cobalt	59-2	0.02	0.01	0.00	0.01	107.39	ppb
Copper	63-2	0.37	0.44	0.37	0.39	10.52	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				105		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	54-2	19.10	17.80	19.02	18.64	3.90	ppb
Iron	56-2	19.88	20.14	20.08	20.03	0.68	ppb
Iron	57-2	27.18	28.05	28.46	27.90	2.35	ppb
Krypton	83-1						cps
Lead	206-1	0.24	0.25	0.24	0.24	2.60	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.24	0.23	0.25	0.24	2.56	ppb
Lead	208-1	0.25	0.25	0.24	0.24	1.52	ppb
Lithium	6-1				111		%
Magnesium	24-2	66537.26	66454.76	66963.44	66651.82	0.41	ppb
Manganese	55-2	15.76	15.56	15.36	15.56	1.30	ppb
Molybdenum	94-1	0.07	0.08	0.07	0.08	5.43	ppb
Molybdenum	95-1	0.01	0.00	0.01	0.01	94.16	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.00	157.66	ppb
Molybdenum	97-1	0.00	-0.01	-0.01	-0.01		ppb
Molybdenum	98-1	0.00	0.00	-0.01	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.04	0.02	-0.01		ppb
Phosphorus	31-2	-5.41	-12.77	-16.48	-11.55		ppb
Potassium	39-2	2831.94	2824.05	2845.22	2833.74	0.38	ppb
Rhodium	103-1				102		%
Rhodium	103-2				101		%
Scandium	45-1				114		%
Scandium	45-2				112		%
Selenium	82-1	1.21	1.23	1.53	1.32	13.67	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.27	-0.50	-0.28	-0.35		ppb
Silicon	28-1	5106.70	5157.14	5076.40	5113.41	0.80	ppb
Silver	107-1	0.02	0.02	0.02	0.02	8.84	ppb
Silver	109-1	0.01	0.00	0.01	0.01	29.07	ppb
Sodium	23-2	60134.36	59942.75	60013.56	60030.22	0.16	ppb
Strontium	86-1	21867.60	21742.70	21567.82	21726.04	0.69	ppb
Strontium	88-1	21758.31	21979.40	21817.40	21851.70	0.52	ppb
Sulfur	34-1	145289.50	143373.07	143290.24	143984.27	0.79	ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	0.00	0.00	0.00	0.00	31.69	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	73.07	ppb
Tin	118-1	-0.03	-0.02	-0.03	-0.03		ppb
Titanium	47-1	0.54	0.60	0.55	0.56	4.96	ppb
Uranium	238-1	0.18	0.18	0.16	0.17	3.62	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.10	0.10	0.09	0.10	6.49	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				110		%
Zinc	66-2	2.48	2.25	2.24	2.32	5.90	ppb
Zirconium	90-1	0.04	0.04	0.05	0.04	7.35	ppb
Zirconium	91-1	0.04	0.05	0.04	0.04	6.52	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	117.24	108.06	111.41	112.24	4.14	ppb
Antimony	121-1	1.26	1.29	1.27	1.27	1.20	ppb
Arsenic	75-2	2.08	2.43	2.24	2.25	7.81	ppb
Barium	135-1	46.12	47.01	46.68	46.60	0.96	ppb
Barium	137-1	47.55	47.67	47.78	47.67	0.24	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	119.52	ppb
Bismuth	209-1				94		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	1.85	2.05	1.88	1.93	5.67	ppb
Cadmium	106-1	0.83	1.33	0.45	0.87	50.41	ppb
Cadmium	111-1	1.62	1.59	1.63	1.61	1.24	ppb
Calcium	43-1	224161.21	229129.16	228161.51	227150.63	1.16	ppb
Calcium	44-1	225125.58	226062.94	223177.99	224788.84	0.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.08	2.14	2.04	2.09	2.42	ppb
Cobalt	59-2	3.52	3.46	3.44	3.47	1.19	ppb
Copper	63-2	23.76	23.31	23.52	23.53	0.96	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				106		%
Indium	115-1				104		%
Indium	115-2				106		%
Iron	54-2	545.79	543.62	537.44	542.28	0.80	ppb
Iron	56-2	577.29	571.49	576.40	575.06	0.54	ppb
Iron	57-2	542.19	543.25	541.14	542.19	0.20	ppb
Krypton	83-1						cps
Lead	206-1	4.08	4.18	4.11	4.12	1.26	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.96	3.97	3.88	3.94	1.32	ppb
Lead	208-1	3.96	4.03	3.99	3.99	0.87	ppb
Lithium	6-1				109		%
Magnesium	24-2	191523.02	190074.25	189915.23	190504.17	0.47	ppb
Manganese	55-2	2168.20	2136.12	2121.16	2141.82	1.12	ppb
Molybdenum	94-1	27.56	28.22	28.85	28.21	2.29	ppb
Molybdenum	95-1	33.23	33.52	34.07	33.61	1.28	ppb
Molybdenum	96-1	32.16	32.52	33.28	32.65	1.75	ppb
Molybdenum	97-1	33.40	33.46	34.51	33.79	1.84	ppb
Molybdenum	98-1	33.01	33.25	33.90	33.39	1.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.18	19.22	19.92	19.44	2.14	ppb
Phosphorus	31-2	671.91	653.65	627.43	651.00	3.43	ppb
Potassium	39-2	16249.12	15759.75	16014.61	16007.83	1.53	ppb
Rhodium	103-1				101		%
Rhodium	103-2				101		%
Scandium	45-1				113		%
Scandium	45-2				113		%
Selenium	82-1	3.01	3.17	2.94	3.04	3.98	ppb
Selenium	77-2	2.31	2.31	4.55	3.06	42.33	ppb
Selenium	78-2	0.86	1.98	2.40	1.75	45.57	ppb
Silicon	28-1	5027.84	5151.20	5037.60	5072.21	1.35	ppb
Silver	107-1	0.10	0.11	0.11	0.11	2.28	ppb
Silver	109-1	0.10	0.10	0.10	0.10	2.20	ppb
Sodium	23-2	116507.80	115473.34	113200.03	115060.39	1.47	ppb
Strontium	86-1	5667.26	5813.88	5781.69	5754.28	1.34	ppb
Strontium	88-1	5736.93	5802.43	5879.86	5806.41	1.23	ppb
Sulfur	34-1	318304.19	327711.45	320786.37	322267.33	1.51	ppb
Terbium	159-1				103		%
Terbium	159-2				104		%
Thallium	203-1	0.24	0.25	0.26	0.25	4.15	ppb
Thallium	205-1	0.24	0.24	0.24	0.24	1.59	ppb
Tin	118-1	0.57	0.60	0.63	0.60	4.52	ppb
Titanium	47-1	5.90	6.59	7.14	6.54	9.53	ppb
Uranium	238-1	11.13	11.08	11.10	11.10	0.21	ppb

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.55	1.52	1.52	1.53	1.12	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	54.49	53.91	54.04	54.15	0.56	ppb
Zirconium	90-1	0.39	0.33	0.36	0.36	7.60	ppb
Zirconium	91-1	0.34	0.35	0.38	0.36	4.73	ppb

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	103.86	103.08	100.63	102.52	1.64	ppb
Antimony	121-1	1.27	1.30	1.27	1.28	1.22	ppb
Arsenic	75-2	2.45	2.53	2.30	2.43	4.72	ppb
Barium	135-1	47.09	48.11	46.93	47.38	1.35	ppb
Barium	137-1	48.13	48.45	47.74	48.11	0.74	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				93		%
Bismuth	209-2				95		%
Bromine	81-1						cps
Cadmium	108-1	2.06	1.75	1.85	1.89	8.42	ppb
Cadmium	106-1	0.42	1.77	0.20	0.80	106.37	ppb
Cadmium	111-1	1.59	1.71	1.64	1.65	3.48	ppb
Calcium	43-1	223998.70	223631.23	227144.98	224924.97	0.86	ppb
Calcium	44-1	219709.75	224283.89	224196.51	222730.05	1.17	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.98	2.09	2.09	2.05	3.01	ppb
Cobalt	59-2	3.32	3.45	3.39	3.39	2.03	ppb
Copper	63-2	23.04	23.51	23.28	23.28	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				105		%
Indium	115-1				105		%
Indium	115-2				107		%
Iron	54-2	532.69	544.38	541.56	539.54	1.13	ppb
Iron	56-2	557.11	575.91	570.81	567.94	1.71	ppb
Iron	57-2	527.48	535.76	537.27	533.50	0.99	ppb
Krypton	83-1						cps
Lead	206-1	4.22	4.17	4.25	4.21	0.96	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.05	3.95	3.95	3.98	1.37	ppb
Lead	208-1	4.06	4.02	4.06	4.05	0.55	ppb
Lithium	6-1				112		%
Magnesium	24-2	187472.26	189694.32	185738.75	187635.11	1.06	ppb
Manganese	55-2	2055.37	2148.88	2137.28	2113.84	2.41	ppb
Molybdenum	94-1	28.06	27.84	29.14	28.35	2.47	ppb
Molybdenum	95-1	33.12	33.39	34.11	33.54	1.52	ppb
Molybdenum	96-1	32.43	32.52	33.35	32.77	1.55	ppb
Molybdenum	97-1	33.09	33.01	34.14	33.41	1.89	ppb
Molybdenum	98-1	32.88	32.83	33.86	33.19	1.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.24	19.39	19.30	19.31	0.39	ppb
Phosphorus	31-2	604.50	624.32	558.89	595.90	5.63	ppb
Potassium	39-2	15930.42	15769.95	15751.74	15817.37	0.62	ppb
Rhodium	103-1				102		%
Rhodium	103-2				103		%
Scandium	45-1				116		%
Scandium	45-2				115		%
Selenium	82-1	2.53	2.73	2.95	2.74	7.69	ppb
Selenium	77-2	3.81	3.81	3.00	3.54	13.17	ppb
Selenium	78-2	2.63	2.41	2.37	2.47	5.83	ppb
Silicon	28-1	4973.71	5039.87	5115.85	5043.14	1.41	ppb
Silver	107-1	0.10	0.12	0.11	0.11	5.14	ppb
Silver	109-1	0.11	0.10	0.10	0.10	5.40	ppb
Sodium	23-2	113317.47	113661.15	113126.09	113368.24	0.24	ppb
Strontium	86-1	5582.04	5723.74	5937.06	5747.61	3.11	ppb
Strontium	88-1	5614.24	5808.70	5891.84	5771.59	2.47	ppb
Sulfur	34-1	318083.10	322096.72	324790.46	321656.76	1.05	ppb
Terbium	159-1				103		%
Terbium	159-2				105		%
Thallium	203-1	0.25	0.26	0.25	0.25	2.14	ppb
Thallium	205-1	0.24	0.24	0.24	0.24	0.22	ppb
Tin	118-1	0.50	0.51	0.51	0.51	0.34	ppb
Titanium	47-1	5.31	8.26	4.38	5.98	33.87	ppb
Uranium	238-1	11.28	11.24	11.31	11.27	0.31	ppb

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.50	1.51	1.48	1.50	0.97	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				112		%
Zinc	66-2	52.89	53.18	54.41	53.49	1.51	ppb
Zirconium	90-1	0.35	0.35	0.37	0.35	2.99	ppb
Zirconium	91-1	0.37	0.34	0.35	0.35	3.54	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	22.42	21.62	22.79	22.28	2.68	ppb
Antimony	121-1	0.27	0.28	0.28	0.28	1.59	ppb
Arsenic	75-2	0.52	0.43	0.49	0.48	9.51	ppb
Barium	135-1	9.88	9.98	10.06	9.97	0.92	ppb
Barium	137-1	10.13	10.12	10.19	10.15	0.36	ppb
Beryllium	9-1	-0.01	0.00	0.00	0.00		ppb
Bismuth	209-1				97		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.29	0.38	0.39	0.35	15.93	ppb
Cadmium	106-1	-0.31	0.05	-0.31	-0.19		ppb
Cadmium	111-1	0.33	0.35	0.33	0.33	3.45	ppb
Calcium	43-1	49971.70	47782.99	48358.96	48704.55	2.33	ppb
Calcium	44-1	48256.25	47533.03	48325.09	48038.13	0.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.39	0.40	0.41	0.40	2.76	ppb
Cobalt	59-2	0.75	0.75	0.75	0.75	0.61	ppb
Copper	63-2	5.30	5.23	5.23	5.25	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				105		%
Holmium	165-2				104		%
Indium	115-1				105		%
Indium	115-2				105		%
Iron	54-2	116.74	116.29	119.68	117.57	1.57	ppb
Iron	56-2	116.23	116.12	117.39	116.58	0.61	ppb
Iron	57-2	112.85	116.08	117.32	115.42	2.00	ppb
Krypton	83-1						cps
Lead	206-1	0.93	0.88	0.89	0.90	2.84	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.86	0.84	0.85	0.85	1.58	ppb
Lead	208-1	0.88	0.85	0.87	0.87	1.96	ppb
Lithium	6-1				113		%
Magnesium	24-2	41020.63	40195.85	40753.11	40656.53	1.03	ppb
Manganese	55-2	425.52	429.93	430.76	428.74	0.66	ppb
Molybdenum	94-1	5.98	5.86	6.06	5.97	1.67	ppb
Molybdenum	95-1	7.30	7.03	7.17	7.16	1.83	ppb
Molybdenum	96-1	7.05	6.91	6.98	6.98	1.03	ppb
Molybdenum	97-1	7.18	7.07	7.13	7.13	0.72	ppb
Molybdenum	98-1	7.05	7.10	7.09	7.08	0.38	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.16	4.02	4.24	4.14	2.60	ppb
Phosphorus	31-2	114.76	106.03	116.75	112.51	5.07	ppb
Potassium	39-2	3171.02	3143.99	3218.12	3177.71	1.18	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				110		%
Selenium	82-1	0.77	0.80	0.79	0.79	1.95	ppb
Selenium	77-2	0.00	0.00	0.80	0.27	173.21	ppb
Selenium	78-2	2.74	0.65	0.91	1.43	79.32	ppb
Silicon	28-1	1058.84	1075.45	1075.64	1069.98	0.90	ppb
Silver	107-1	0.03	0.03	0.02	0.03	5.84	ppb
Silver	109-1	0.03	0.03	0.03	0.03	6.56	ppb
Sodium	23-2	24736.61	24242.70	24360.50	24446.60	1.06	ppb
Strontium	86-1	1216.10	1224.23	1232.26	1224.20	0.66	ppb
Strontium	88-1	1230.16	1236.76	1206.55	1224.49	1.30	ppb
Sulfur	34-1	69712.20	67882.16	70126.51	69240.29	1.72	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	0.06	0.05	0.06	0.05	5.50	ppb
Thallium	205-1	0.06	0.05	0.06	0.05	3.73	ppb
Tin	118-1	0.15	0.13	0.12	0.13	8.20	ppb
Titanium	47-1	3.40	0.81	0.80	1.67	89.85	ppb
Uranium	238-1	2.31	2.23	2.27	2.27	1.78	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.30	0.30	0.32	0.31	4.05	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	12.56	11.33	12.03	11.97	5.14	ppb
Zirconium	90-1	0.07	0.07	0.06	0.07	5.14	ppb
Zirconium	91-1	0.08	0.17	0.09	0.11	43.96	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1895.09	1887.23	1900.64	1894.32	0.36	ppb
Antimony	121-1	104.75	103.01	105.44	104.40	1.20	ppb
Arsenic	75-2	41.85	41.99	42.31	42.05	0.56	ppb
Barium	135-1	1996.61	2010.70	2033.07	2013.46	0.91	ppb
Barium	137-1	2022.61	2022.46	2025.62	2023.56	0.09	ppb
Beryllium	9-1	47.21	46.99	47.14	47.11	0.23	ppb
Bismuth	209-1				92		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	40.38	42.42	42.06	41.62	2.62	ppb
Cadmium	106-1	38.14	39.32	40.22	39.23	2.66	ppb
Cadmium	111-1	48.92	47.76	48.73	48.47	1.28	ppb
Calcium	43-1	228126.82	223637.49	226005.48	225923.26	0.99	ppb
Calcium	44-1	227164.85	223138.25	225711.60	225338.23	0.90	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	190.00	187.43	187.32	188.25	0.81	ppb
Cobalt	59-2	505.85	494.62	503.52	501.33	1.18	ppb
Copper	63-2	275.90	270.75	271.77	272.81	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				102		%
Indium	115-1				103		%
Indium	115-2				104		%
Iron	54-2	1672.52	1634.81	1664.23	1657.18	1.20	ppb
Iron	56-2	1584.51	1577.83	1573.04	1578.46	0.36	ppb
Iron	57-2	1522.26	1479.70	1480.84	1494.27	1.62	ppb
Krypton	83-1						cps
Lead	206-1	23.83	23.91	23.85	23.86	0.17	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	23.24	23.64	23.59	23.49	0.93	ppb
Lead	208-1	23.47	23.83	23.76	23.69	0.81	ppb
Lithium	6-1				109		%
Magnesium	24-2	187673.16	183589.79	187704.87	186322.60	1.27	ppb
Manganese	55-2	2595.39	2591.29	2550.78	2579.15	0.96	ppb
Molybdenum	94-1	28.26	28.84	28.44	28.51	1.05	ppb
Molybdenum	95-1	33.72	34.02	33.56	33.77	0.68	ppb
Molybdenum	96-1	32.25	33.59	33.09	32.98	2.05	ppb
Molybdenum	97-1	33.69	34.02	34.18	33.97	0.74	ppb
Molybdenum	98-1	33.60	33.82	33.12	33.52	1.07	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	487.86	478.19	480.92	482.32	1.03	ppb
Phosphorus	31-2	674.63	644.13	595.28	638.01	6.27	ppb
Potassium	39-2	15715.10	15526.16	15460.43	15567.23	0.85	ppb
Rhodium	103-1				98		%
Rhodium	103-2				100		%
Scandium	45-1				110		%
Scandium	45-2				112		%
Selenium	82-1	23.51	23.90	24.78	24.06	2.70	ppb
Selenium	77-2	30.94	29.79	26.86	29.20	7.20	ppb
Selenium	78-2	23.59	25.99	26.56	25.38	6.22	ppb
Silicon	28-1	4967.01	5015.33	5163.38	5048.57	2.03	ppb
Silver	107-1	43.92	43.95	44.11	44.00	0.24	ppb
Silver	109-1	43.85	44.14	45.02	44.34	1.38	ppb
Sodium	23-2	113119.34	112735.44	111532.99	112462.59	0.74	ppb
Strontium	86-1	5609.79	5762.38	5698.11	5690.09	1.35	ppb
Strontium	88-1	5598.77	5767.13	5741.13	5702.34	1.59	ppb
Sulfur	34-1	322326.24	322641.69	326273.01	323746.98	0.68	ppb
Terbium	159-1				103		%
Terbium	159-2				103		%
Thallium	203-1	48.16	48.98	48.94	48.69	0.95	ppb
Thallium	205-1	53.44	53.58	52.51	53.18	1.10	ppb
Tin	118-1	0.63	0.57	0.59	0.59	4.55	ppb
Titanium	47-1	9.29	7.17	4.15	6.87	37.56	ppb
Uranium	238-1	11.26	11.38	11.36	11.33	0.56	ppb

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	506.21	505.77	495.87	502.62	1.16	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				107		%
Yttrium	89-2				110		%
Zinc	66-2	513.60	501.56	507.36	507.51	1.19	ppb
Zirconium	90-1	0.37	0.37	0.37	0.37	0.77	ppb
Zirconium	91-1	0.38	0.40	0.39	0.39	2.27	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	618.53	617.42	615.28	617.08	0.27	ppb
Antimony	121-1	0.06	0.06	0.07	0.06	10.58	ppb
Arsenic	75-2	1.17	1.20	1.24	1.21	3.18	ppb
Barium	135-1	15.54	15.83	15.76	15.71	0.94	ppb
Barium	137-1	15.74	16.05	15.81	15.87	1.02	ppb
Beryllium	9-1	0.07	0.08	0.08	0.08	7.20	ppb
Bismuth	209-1				88		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	0.21	0.25	0.28	0.24	13.97	ppb
Cadmium	106-1	-0.26	0.34	0.19	0.09	349.71	ppb
Cadmium	111-1	0.05	0.11	0.09	0.08	32.75	ppb
Calcium	43-1	236101.29	240812.19	238843.71	238585.73	0.99	ppb
Calcium	44-1	233093.35	235187.33	238455.81	235578.83	1.15	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.11	1.17	1.16	1.14	2.57	ppb
Cobalt	59-2	0.53	0.51	0.49	0.51	4.67	ppb
Copper	63-2	1.40	1.35	1.40	1.38	2.18	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	54-2	2726.72	2779.89	2745.66	2750.76	0.98	ppb
Iron	56-2	2891.40	2892.64	2905.60	2896.55	0.27	ppb
Iron	57-2	2730.78	2734.59	2728.81	2731.39	0.11	ppb
Krypton	83-1						cps
Lead	206-1	0.85	0.88	0.86	0.86	1.67	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.76	0.83	0.83	0.81	4.71	ppb
Lead	208-1	0.81	0.83	0.82	0.82	1.67	ppb
Lithium	6-1				104		%
Magnesium	24-2	75387.80	74396.91	73503.53	74429.41	1.27	ppb
Manganese	55-2	42.23	41.79	42.20	42.07	0.58	ppb
Molybdenum	94-1	2.75	2.81	2.83	2.80	1.59	ppb
Molybdenum	95-1	2.00	1.96	1.99	1.98	1.00	ppb
Molybdenum	96-1	2.01	1.97	2.03	2.00	1.58	ppb
Molybdenum	97-1	1.95	2.00	1.90	1.95	2.69	ppb
Molybdenum	98-1	1.92	1.93	1.97	1.94	1.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.69	1.76	1.65	1.70	3.30	ppb
Phosphorus	31-2	67.27	36.25	39.86	47.79	35.49	ppb
Potassium	39-2	2795.52	2803.27	2806.12	2801.64	0.20	ppb
Rhodium	103-1				94		%
Rhodium	103-2				96		%
Scandium	45-1				107		%
Scandium	45-2				107		%
Selenium	82-1	0.90	0.80	0.67	0.79	14.58	ppb
Selenium	77-2	0.81	1.62	0.80	1.08	43.76	ppb
Selenium	78-2	0.69	1.17	1.15	1.00	27.31	ppb
Silicon	28-1	4349.74	4307.35	4358.72	4338.60	0.63	ppb
Silver	107-1	0.06	0.05	0.04	0.05	20.53	ppb
Silver	109-1	0.06	0.05	0.04	0.05	23.69	ppb
Sodium	23-2	264356.53	269561.09	265583.83	266500.48	1.02	ppb
Strontium	86-1	11438.54	11468.59	11465.71	11457.62	0.14	ppb
Strontium	88-1	11483.76	11531.01	11617.03	11543.93	0.59	ppb
Sulfur	34-1	132369.03	132452.99	133914.42	132912.14	0.65	ppb
Terbium	159-1				98		%
Terbium	159-2				100		%
Thallium	203-1	0.07	0.08	0.09	0.08	10.32	ppb
Thallium	205-1	0.07	0.08	0.08	0.08	6.19	ppb
Tin	118-1	0.06	0.07	0.08	0.07	11.00	ppb
Titanium	47-1	17.21	16.71	19.37	17.76	7.98	ppb
Uranium	238-1	0.37	0.37	0.38	0.37	1.24	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1.84	1.79	1.87	1.83	2.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				105		%
Zinc	66-2	4.42	4.60	4.34	4.46	2.93	ppb
Zirconium	90-1	0.63	0.64	0.63	0.63	1.48	ppb
Zirconium	91-1	0.64	0.66	0.66	0.65	1.32	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50895.79	51118.72	50874.20	50962.91	0.27	ppb
Antimony	121-1	487.28	499.02	497.43	494.58	1.29	ppb
Arsenic	75-2	472.62	472.25	481.05	475.31	1.05	ppb
Barium	135-1	2496.58	2503.65	2499.65	2499.96	0.14	ppb
Barium	137-1	2497.67	2504.52	2467.36	2489.85	0.79	ppb
Beryllium	9-1	486.75	483.14	488.52	486.14	0.56	ppb
Bismuth	209-1				83		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	473.67	480.87	487.91	480.82	1.48	ppb
Cadmium	106-1	476.14	491.48	490.08	485.90	1.75	ppb
Cadmium	111-1	483.16	481.71	490.60	485.16	0.98	ppb
Calcium	43-1	254965.27	255213.03	257761.57	255979.96	0.60	ppb
Calcium	44-1	249873.46	255049.38	258245.47	254389.44	1.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	500.05	491.66	506.98	499.57	1.54	ppb
Cobalt	59-2	486.14	491.37	494.89	490.80	0.90	ppb
Copper	63-2	4665.64	4749.27	4778.83	4731.25	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				96		%
Holmium	165-2				95		%
Indium	115-1				91		%
Indium	115-2				91		%
Iron	54-2	125046.52	127713.29	128544.55	127101.46	1.44	ppb
Iron	56-2	124389.61	126562.39	129088.52	126680.18	1.86	ppb
Iron	57-2	127163.20	126234.10	128252.85	127216.71	0.79	ppb
Krypton	83-1						cps
Lead	206-1	2582.67	2534.61	2520.18	2545.82	1.29	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2561.73	2542.54	2512.30	2538.86	0.98	ppb
Lead	208-1	2545.40	2527.37	2527.79	2533.52	0.41	ppb
Lithium	6-1				97		%
Magnesium	24-2	251473.40	250207.12	250699.06	250793.19	0.25	ppb
Manganese	55-2	4949.28	4939.61	4976.40	4955.10	0.38	ppb
Molybdenum	94-1	5008.52	5004.67	5004.83	5006.01	0.04	ppb
Molybdenum	95-1	4944.48	4962.04	4955.67	4954.06	0.18	ppb
Molybdenum	96-1	4952.30	4911.50	4962.02	4941.94	0.54	ppb
Molybdenum	97-1	4944.27	4889.37	4978.79	4937.48	0.91	ppb
Molybdenum	98-1	5001.03	4919.18	5022.79	4981.00	1.10	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	448.61	451.72	454.02	451.45	0.60	ppb
Phosphorus	31-2	9750.67	10077.34	9737.96	9855.32	1.95	ppb
Potassium	39-2	122793.69	122394.78	124616.32	123268.26	0.96	ppb
Rhodium	103-1				87		%
Rhodium	103-2				89		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	470.02	474.80	479.06	474.63	0.95	ppb
Selenium	77-2	500.66	449.17	449.81	466.55	6.33	ppb
Selenium	78-2	450.15	467.69	492.64	470.16	4.54	ppb
Silicon	28-1	598.83	614.39	621.85	611.69	1.92	ppb
Silver	107-1	471.86	482.00	482.23	478.70	1.24	ppb
Silver	109-1	473.84	472.17	483.18	476.40	1.25	ppb
Sodium	23-2	260957.24	263860.96	264058.03	262958.74	0.66	ppb
Strontium	86-1	501.38	504.79	499.93	502.03	0.50	ppb
Strontium	88-1	492.35	495.11	493.75	493.74	0.28	ppb
Sulfur	34-1	9869.59	10155.13	10318.84	10114.52	2.25	ppb
Terbium	159-1				94		%
Terbium	159-2				93		%
Thallium	203-1	513.14	505.20	502.02	506.79	1.13	ppb
Thallium	205-1	523.18	501.66	505.23	510.02	2.26	ppb
Tin	118-1	496.89	502.81	491.15	496.95	1.17	ppb
Titanium	47-1	4853.31	4942.04	4983.03	4926.13	1.35	ppb
Uranium	238-1	501.65	505.04	504.50	503.73	0.36	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.58	494.97	509.32	505.29	1.78	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				99		%
Zinc	66-2	4706.17	4750.47	4780.81	4745.82	0.79	ppb
Zirconium	90-1	504.48	506.14	498.13	502.92	0.84	ppb
Zirconium	91-1	500.24	499.13	500.89	500.09	0.18	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.22	1.22	1.41	1.28	8.56	ppb
Antimony	121-1	0.13	0.12	0.12	0.12	5.61	ppb
Arsenic	75-2	0.05	-0.01	0.02	0.02	153.76	ppb
Barium	135-1	0.04	0.03	0.04	0.03	13.83	ppb
Barium	137-1	0.05	0.03	0.04	0.04	35.09	ppb
Beryllium	9-1	0.13	0.11	0.10	0.11	14.50	ppb
Bismuth	209-1				96		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	0.09	0.06	0.02	0.06	58.63	ppb
Cadmium	106-1	-1.10	0.13	-0.88	-0.62		ppb
Cadmium	111-1	-0.06	0.03	-0.04	-0.02		ppb
Calcium	43-1	8.55	6.17	7.15	7.29	16.43	ppb
Calcium	44-1	3.36	0.87	3.46	2.56	57.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.14	0.14	0.13	0.14	1.88	ppb
Cobalt	59-2	0.01	0.00	0.00	0.00	160.27	ppb
Copper	63-2	0.14	0.19	0.12	0.15	25.34	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				102		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	3.59	3.10	3.22	3.30	7.66	ppb
Iron	56-2	4.03	3.44	3.41	3.63	9.63	ppb
Iron	57-2	4.00	4.13	2.70	3.61	21.82	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.15	0.15	0.15	3.09	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.15	0.15	0.15	5.02	ppb
Lead	208-1	0.16	0.15	0.14	0.15	5.75	ppb
Lithium	6-1				109		%
Magnesium	24-2	-1.54	-2.03	-2.09	-1.89		ppb
Manganese	55-2	0.36	0.22	0.27	0.28	26.21	ppb
Molybdenum	94-1	0.19	0.16	0.16	0.17	9.88	ppb
Molybdenum	95-1	0.19	0.15	0.16	0.17	10.67	ppb
Molybdenum	96-1	0.18	0.15	0.15	0.16	12.32	ppb
Molybdenum	97-1	0.18	0.15	0.14	0.15	14.72	ppb
Molybdenum	98-1	0.16	0.14	0.14	0.15	8.82	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.04	-0.02	-0.06	-0.01		ppb
Phosphorus	31-2	-17.65	-24.45	-24.43	-22.18		ppb
Potassium	39-2	14.20	10.18	9.22	11.20	23.57	ppb
Rhodium	103-1				103		%
Rhodium	103-2				104		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	0.16	0.01	-0.28	-0.04		ppb
Selenium	77-2	0.80	0.00	0.00	0.27	173.21	ppb
Selenium	78-2	0.21	0.24	0.48	0.31	48.99	ppb
Silicon	28-1	3.24	2.25	2.84	2.78	17.94	ppb
Silver	107-1	0.06	0.05	0.04	0.05	17.79	ppb
Silver	109-1	0.06	0.05	0.04	0.05	13.90	ppb
Sodium	23-2	41.20	37.22	36.91	38.44	6.21	ppb
Strontium	86-1	0.11	0.07	0.11	0.10	24.58	ppb
Strontium	88-1	0.11	0.09	0.11	0.10	14.46	ppb
Sulfur	34-1	-1320.06	-1359.62	-1087.92	-1255.87		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.05	0.04	0.05	0.05	9.78	ppb
Thallium	205-1	0.05	0.04	0.04	0.04	16.30	ppb
Tin	118-1	0.03	0.03	0.02	0.03	26.12	ppb
Titanium	47-1	0.09	0.07	0.07	0.08	13.91	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	2.32	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.01	0.01	0.01	33.52	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				105		%
Yttrium	89-2				103		%
Zinc	66-2	0.14	0.17	0.18	0.16	13.55	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	15.72	ppb
Zirconium	91-1	0.03	0.03	0.03	0.03	2.62	ppb

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	70	47	97	71	35.18	cps
Antimony	121-1	57	43	43	48	16.12	cps
Arsenic	75-2	3	13	3	7	86.65	cps
Barium	135-1	457	520	450	476	8.12	cps
Barium	137-1	763	777	833	791	4.70	cps
Beryllium	9-1	462	525	416	468	11.66	cps
Bismuth	209-1	14123463	14105716	14215968	14148382	0.42	cps
Bismuth	209-2	5039748	5098469	5053290	5063836	0.61	cps
Bromine	81-1	4404	4151	4191	4248	3.21	cps
Cadmium	108-1	33	13	30	26	41.94	cps
Cadmium	106-1	9570	9754	9667	9663	0.95	cps
Cadmium	111-1	6719	6831	6779	6777	0.83	cps
Calcium	43-1	590	497	533	540	8.71	cps
Calcium	44-1	27633	26969	27326	27309	1.22	cps
Carbon	12-1	4608129	4135938	4030812	4258293	7.22	cps
Carbon	12-2	25576	25683	24874	25378	1.73	cps
Chlorine	35-1	143549	140363	140995	141636	1.19	cps
Chlorine	35-2	490	460	487	479	3.43	cps
Chromium	52-2	2390	2377	2467	2411	2.01	cps
Cobalt	59-2	303	273	297	291	5.41	cps
Copper	63-2	3290	3014	3244	3183	4.65	cps
Dysprosium	156-1	70	120	123	104	28.61	cps
Dysprosium	156-2	0	7	0	2	173.21	cps
Erbium	164-1	97	93	107	99	7.02	cps
Erbium	164-2	20	17	27	21	24.12	cps
Gadolinium	160-1	120	93	157	123	25.78	cps
Gadolinium	160-2	13	27	23	21	32.88	cps
Holmium	165-1	21554382	21426407	21313327	21431372	0.56	cps
Holmium	165-2	6780152	6660068	6659920	6700047	1.04	cps
Indium	115-1	16688942	16961204	16721683	16790610	0.89	cps
Indium	115-2	1381410	1377345	1375359	1378038	0.22	cps
Iron	54-2	940	960	920	940	2.13	cps
Iron	56-2	13623	13700	13790	13704	0.61	cps
Iron	57-2	320	323	287	310	6.54	cps
Krypton	83-1	327	253	327	302	14.01	cps
Lead	206-1	1400	1640	1570	1537	8.03	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1363	1367	1370	1367	0.24	cps
Lead	208-1	6094	6281	6194	6190	1.51	cps
Lithium	6-1	8372388	8616156	8361767	8450104	1.70	cps
Magnesium	24-2	5241	5281	5178	5233	1.00	cps
Manganese	55-2	297	270	327	298	9.52	cps
Molybdenum	94-1	627	643	637	636	1.32	cps
Molybdenum	95-1	583	540	567	563	3.88	cps
Molybdenum	96-1	717	640	680	679	5.65	cps
Molybdenum	97-1	363	417	347	376	9.74	cps
Molybdenum	98-1	940	873	920	911	3.75	cps
Neodymium	150-1	13	20	30	21	39.75	cps
Neodymium	150-2	7	3	7	6	34.70	cps
Nickel	60-2	1490	1620	1637	1582	5.08	cps
Phosphorus	31-2	117	93	117	109	12.38	cps
Potassium	39-2	8786	8863	8936	8862	0.85	cps
Rhodium	103-1	15737345	15800865	15655090	15731100	0.46	cps
Rhodium	103-2	5710063	5592251	5651218	5651177	1.04	cps
Scandium	45-1	11114004	10896030	11031465	11013833	1.00	cps
Scandium	45-2	192832	193203	192095	192710	0.29	cps
Selenium	82-1	-20	27	-37	-10	-328.40	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	0	10	10	7	86.60	cps
Silicon	28-1	543007	539255	539385	540549	0.39	cps
Silver	107-1	227	193	273	231	17.39	cps
Silver	109-1	113	123	90	109	15.71	cps
Sodium	23-2	43695	43568	44060	43774	0.58	cps
Strontium	86-1	773	690	817	760	8.47	cps
Strontium	88-1	2584	2424	2550	2519	3.35	cps
Sulfur	34-1	795846	791649	787450	791648	0.53	cps
Terbium	159-1	22461321	22370025	22202626	22344657	0.59	cps
Terbium	159-2	6476178	6491269	6549446	6505631	0.59	cps
Thallium	203-1	387	350	343	360	6.48	cps
Thallium	205-1	923	953	950	942	1.75	cps
Tin	118-1	2450	2670	2517	2546	4.43	cps
Titanium	47-1	310	250	290	283	10.78	cps
Uranium	238-1	267	183	197	216	20.77	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S00	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:45:07	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	33	27	24	41.66	cps
Ytterbium	172-1	107	93	93	98	7.87	cps
Ytterbium	172-2	47	53	63	54	15.40	cps
Ytterbium	176-1	2597	2677	2474	2583	3.97	cps
Ytterbium	176-2	357	390	387	378	4.86	cps
Yttrium	89-1	28420853	28710896	28675998	28602582	0.55	cps
Yttrium	89-2	1832389	1794865	1825498	1817584	1.10	cps
Zinc	66-2	200	153	180	178	13.17	cps
Zirconium	90-1	903	1000	993	966	5.59	cps
Zirconium	91-1	167	160	163	163	2.04	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1700	1547	1520	1589	6.11	cps
Antimony	121-1	37786	37996	38668	38150	1.21	cps
Arsenic	75-2	343	343	377	354	5.43	cps
Barium	135-1	45844	45553	47085	46160	1.76	cps
Barium	137-1	79388	80243	80269	79967	0.63	cps
Beryllium	9-1	7410	7483	7595	7496	1.24	cps
Bismuth	209-1	14255624	14025076	14111834	14130845	0.82	cps
Bismuth	209-2	5024314	5033342	5054374	5037344	0.31	cps
Bromine	81-1	3734	4301	4154	4063	7.24	cps
Cadmium	108-1	487	433	353	424	15.81	cps
Cadmium	106-1	9667	10171	9790	9876	2.66	cps
Cadmium	111-1	11447	11784	11213	11481	2.50	cps
Calcium	43-1	31591	31174	31668	31478	0.85	cps
Calcium	44-1	524440	526833	530291	527188	0.56	cps
Carbon	12-1	4596789	4285954	4067691	4316811	6.16	cps
Carbon	12-2	26153	25843	25662	25886	0.96	cps
Chlorine	35-1	140147	140285	139460	139964	0.32	cps
Chlorine	35-2	473	457	430	453	4.82	cps
Chromium	52-2	9773	9867	10067	9902	1.51	cps
Cobalt	59-2	7969	8136	8152	8086	1.25	cps
Copper	63-2	14568	14551	14507	14542	0.21	cps
Dysprosium	156-1	70	73	67	70	4.76	cps
Dysprosium	156-2	20	17	0	12	87.67	cps
Erbium	164-1	110	83	113	102	16.09	cps
Erbium	164-2	27	37	23	29	24.03	cps
Gadolinium	160-1	170	150	130	150	13.33	cps
Gadolinium	160-2	33	13	13	20	57.74	cps
Holmium	165-1	21426831	21933311	21253289	21537810	1.64	cps
Holmium	165-2	6763878	6835178	6745924	6781660	0.70	cps
Indium	115-1	16886441	16868485	16610812	16788579	0.92	cps
Indium	115-2	1381954	1389016	1403921	1391631	0.81	cps
Iron	54-2	9013	8733	9046	8931	1.93	cps
Iron	56-2	156656	157276	156825	156919	0.20	cps
Iron	57-2	4054	4151	4201	4135	1.80	cps
Krypton	83-1	290	267	277	278	4.22	cps
Lead	206-1	16968	17665	17455	17363	2.06	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	15152	15129	15072	15118	0.27	cps
Lead	208-1	69006	69259	69630	69298	0.45	cps
Lithium	6-1	8611440	8472779	8513657	8532625	0.84	cps
Magnesium	24-2	144976	143771	143582	144110	0.52	cps
Manganese	55-2	1960	2007	1783	1917	6.15	cps
Molybdenum	94-1	38811	38731	39309	38950	0.80	cps
Molybdenum	95-1	47046	46340	46775	46721	0.76	cps
Molybdenum	96-1	51589	51823	52398	51936	0.80	cps
Molybdenum	97-1	28954	28716	29104	28925	0.68	cps
Molybdenum	98-1	76231	75775	74368	75458	1.29	cps
Neodymium	150-1	27	40	17	28	42.13	cps
Neodymium	150-2	3	7	0	3	100.05	cps
Nickel	60-2	3390	3560	3290	3414	4.00	cps
Phosphorus	31-2	170	173	207	183	11.06	cps
Potassium	39-2	77269	78716	78050	78012	0.93	cps
Rhodium	103-1	15920486	15593116	15584426	15699343	1.22	cps
Rhodium	103-2	5725167	5732431	5691702	5716434	0.38	cps
Scandium	45-1	11059226	11125568	11185609	11123468	0.57	cps
Scandium	45-2	190930	193933	195139	193334	1.12	cps
Selenium	82-1	1307	1547	1433	1429	8.40	cps
Selenium	77-2	37	27	23	29	24.03	cps
Selenium	78-2	93	73	87	84	12.06	cps
Silicon	28-1	626053	625662	617941	623218	0.73	cps
Silver	107-1	22916	23861	23517	23431	2.04	cps
Silver	109-1	22155	22342	22445	22314	0.66	cps
Sodium	23-2	314385	314448	313641	314158	0.14	cps
Strontium	86-1	7045	6908	6818	6924	1.65	cps
Strontium	88-1	55824	55383	54603	55270	1.12	cps
Sulfur	34-1	786223	788611	781604	785479	0.45	cps
Terbium	159-1	22099361	22369988	22208083	22225811	0.61	cps
Terbium	159-2	6469590	6576672	6493642	6513301	0.86	cps
Thallium	203-1	19281	19885	19585	19584	1.54	cps
Thallium	205-1	47590	47075	47038	47234	0.65	cps
Tin	118-1	81014	80183	80189	80462	0.59	cps
Titanium	47-1	14247	14164	14414	14275	0.89	cps
Uranium	238-1	60433	60513	61806	60918	1.27	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S02	Instrumnet Name :	P8
Client Sample ID :	S02	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:48:29	DataFile Name :	005CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	14908	14734	14421	14688	1.68	cps
Ytterbium	172-1	110	127	97	111	13.53	cps
Ytterbium	172-2	53	40	60	51	19.92	cps
Ytterbium	176-1	2480	2457	2534	2490	1.58	cps
Ytterbium	176-2	387	423	407	406	4.53	cps
Yttrium	89-1	28476792	28711227	28356479	28514833	0.63	cps
Yttrium	89-2	1816455	1832740	1790787	1813327	1.17	cps
Zinc	66-2	3340	3157	3237	3245	2.83	cps
Zirconium	90-1	33139	33363	33166	33223	0.37	cps
Zirconium	91-1	7132	7212	7429	7258	2.12	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	72784	73756	73658	73399	0.73	cps
Antimony	121-1	929370	939576	933180	934042	0.55	cps
Arsenic	75-2	16006	16076	16376	16153	1.22	cps
Barium	135-1	1122470	1129729	1136365	1129521	0.62	cps
Barium	137-1	2000817	2061362	2031632	2031271	1.49	cps
Beryllium	9-1	340662	338935	341399	340332	0.37	cps
Bismuth	209-1	14093423	14029981	13797850	13973751	1.11	cps
Bismuth	209-2	5026975	5044046	4991081	5020701	0.54	cps
Bromine	81-1	4354	4227	4154	4245	2.38	cps
Cadmium	108-1	19334	20061	19731	19709	1.85	cps
Cadmium	106-1	36622	37183	37016	36941	0.78	cps
Cadmium	111-1	245512	245770	244332	245205	0.31	cps
Calcium	43-1	304434	303385	306188	304669	0.46	cps
Calcium	44-1	5060916	4997518	5018731	5025722	0.64	cps
Carbon	12-1	4653308	4404155	4238363	4431942	4.71	cps
Carbon	12-2	26891	26855	26457	26734	0.90	cps
Chlorine	35-1	139036	137923	137808	138256	0.49	cps
Chlorine	35-2	517	500	390	469	14.68	cps
Chromium	52-2	184041	186522	185401	185321	0.67	cps
Cobalt	59-2	359710	356404	355702	357272	0.60	cps
Copper	63-2	2949955	2941754	2972387	2954699	0.54	cps
Dysprosium	156-1	110	123	110	114	6.73	cps
Dysprosium	156-2	20	3	7	10	88.20	cps
Erbium	164-1	113	137	127	126	9.33	cps
Erbium	164-2	30	40	43	38	18.36	cps
Gadolinium	160-1	153	113	153	140	16.50	cps
Gadolinium	160-2	27	27	20	24	15.75	cps
Holmium	165-1	21512820	21827413	21725921	21688718	0.74	cps
Holmium	165-2	6752832	6732772	6737852	6741152	0.15	cps
Indium	115-1	16964227	16766206	16795549	16841994	0.63	cps
Indium	115-2	1394833	1393645	1398371	1395616	0.18	cps
Iron	54-2	387484	387278	384646	386469	0.41	cps
Iron	56-2	7202612	7330930	7256288	7263276	0.89	cps
Iron	57-2	177026	175333	176559	176306	0.50	cps
Krypton	83-1	253	340	310	301	14.62	cps
Lead	206-1	4242743	4172138	4130746	4181876	1.35	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3601473	3638879	3569709	3603354	0.96	cps
Lead	208-1	16512384	16568517	16367251	16482718	0.63	cps
Lithium	6-1	8687667	8447874	8573712	8569751	1.40	cps
Magnesium	24-2	1447097	1422650	1451968	1440572	1.09	cps
Manganese	55-2	754305	757517	749992	753938	0.50	cps
Molybdenum	94-1	3318955	3345693	3310980	3325209	0.55	cps
Molybdenum	95-1	4779287	4858299	4777766	4805117	0.96	cps
Molybdenum	96-1	5292276	5313890	5292654	5299607	0.23	cps
Molybdenum	97-1	2992917	3008405	3026981	3009435	0.57	cps
Molybdenum	98-1	7778426	7795712	7732705	7768948	0.42	cps
Neodymium	150-1	103	150	83	112	30.48	cps
Neodymium	150-2	0	3	7	3	100.05	cps
Nickel	60-2	100367	100149	101646	100721	0.80	cps
Phosphorus	31-2	3537	3477	3550	3522	1.11	cps
Potassium	39-2	356050	354867	353850	354923	0.31	cps
Rhodium	103-1	15713518	15646748	15584322	15648196	0.41	cps
Rhodium	103-2	5691107	5602893	5580402	5624801	1.04	cps
Scandium	45-1	11357422	11181033	11132207	11223554	1.06	cps
Scandium	45-2	196585	194884	194490	195320	0.57	cps
Selenium	82-1	13921	14128	14665	14238	2.70	cps
Selenium	77-2	203	223	207	211	5.08	cps
Selenium	78-2	773	740	647	720	9.12	cps
Silicon	28-1	1313093	1322290	1319785	1318389	0.36	cps
Silver	107-1	1177706	1179088	1191479	1182757	0.64	cps
Silver	109-1	1128251	1130948	1133022	1130740	0.21	cps
Sodium	23-2	2867740	2854040	2809863	2843881	1.06	cps
Strontium	86-1	295553	298956	302449	298986	1.15	cps
Strontium	88-1	2721971	2724924	2706234	2717710	0.37	cps
Sulfur	34-1	876158	867393	859138	867563	0.98	cps
Terbium	159-1	21995751	22259924	22583516	22279730	1.32	cps
Terbium	159-2	6521763	6435173	6554063	6503666	0.95	cps
Thallium	203-1	954236	958493	965731	959487	0.61	cps
Thallium	205-1	2439293	2450644	2370697	2420212	1.79	cps
Tin	118-1	754346	760585	757231	757387	0.41	cps
Titanium	47-1	1449105	1415680	1453694	1439493	1.44	cps
Uranium	238-1	3293105	3298727	3314607	3302146	0.34	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S03	Instrumnet Name :	P8
Client Sample ID :	S03	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:51:52	DataFile Name :	006CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	141056	142316	143902	142425	1.00	cps
Ytterbium	172-1	133	140	117	130	9.24	cps
Ytterbium	172-2	37	43	47	42	12.06	cps
Ytterbium	176-1	6959	7255	6819	7011	3.18	cps
Ytterbium	176-2	1753	1817	1807	1792	1.90	cps
Yttrium	89-1	28601935	28570079	28657546	28609853	0.15	cps
Yttrium	89-2	1805917	1797910	1799073	1800967	0.24	cps
Zinc	66-2	294625	292768	294973	294122	0.40	cps
Zirconium	90-1	1668731	1710185	1694038	1690984	1.24	cps
Zirconium	91-1	347579	353710	354253	351847	1.05	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	177921	179340	181305	179522	0.95	cps
Antimony	121-1	2432566	2442614	2427574	2434252	0.31	cps
Arsenic	75-2	40558	40919	40224	40567	0.86	cps
Barium	135-1	2979413	2961019	2990007	2976813	0.49	cps
Barium	137-1	5004843	4994061	5088701	5029202	1.03	cps
Beryllium	9-1	827427	819971	828799	825399	0.58	cps
Bismuth	209-1	14032542	13909606	13987218	13976455	0.44	cps
Bismuth	209-2	4970029	4990470	4879593	4946697	1.19	cps
Bromine	81-1	3847	3991	4227	4022	4.77	cps
Cadmium	108-1	47448	46772	47602	47274	0.93	cps
Cadmium	106-1	76541	75150	77596	76429	1.61	cps
Cadmium	111-1	580248	588396	584398	584347	0.70	cps
Calcium	43-1	743389	748486	746395	746090	0.34	cps
Calcium	44-1	12223124	12307368	12269231	12266574	0.34	cps
Carbon	12-1	4923127	4742039	4628728	4764632	3.12	cps
Carbon	12-2	29964	29854	29590	29802	0.65	cps
Chlorine	35-1	143021	143217	142251	142829	0.36	cps
Chlorine	35-2	413	470	437	440	6.47	cps
Chromium	52-2	448084	452067	450828	450326	0.45	cps
Cobalt	59-2	869006	872645	868349	870000	0.27	cps
Copper	63-2	7406668	7448039	7400325	7418344	0.35	cps
Dysprosium	156-1	100	147	117	121	19.53	cps
Dysprosium	156-2	27	13	10	17	52.93	cps
Erbium	164-1	120	143	113	126	12.55	cps
Erbium	164-2	30	17	37	28	36.66	cps
Gadolinium	160-1	103	117	167	129	25.91	cps
Gadolinium	160-2	23	40	30	31	26.97	cps
Holmium	165-1	22045601	22098606	22191942	22112050	0.34	cps
Holmium	165-2	6835178	6846576	6636036	6772597	1.75	cps
Indium	115-1	16786351	16639984	16813788	16746708	0.56	cps
Indium	115-2	1388730	1407060	1355545	1383778	1.89	cps
Iron	54-2	940242	944939	941855	942345	0.25	cps
Iron	56-2	17591606	17545196	17642573	17593125	0.28	cps
Iron	57-2	427655	428041	427215	427637	0.10	cps
Krypton	83-1	293	367	310	323	11.89	cps
Lead	206-1	10006918	10015160	9924371	9982150	0.50	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8588877	8665302	8644256	8632811	0.46	cps
Lead	208-1	39673681	40012901	39897123	39861235	0.43	cps
Lithium	6-1	8685110	8553409	8691047	8643189	0.90	cps
Magnesium	24-2	3488277	3450668	3461972	3466972	0.56	cps
Manganese	55-2	1902461	2002393	1903282	1936045	2.97	cps
Molybdenum	94-1	8174688	7972495	8117394	8088192	1.29	cps
Molybdenum	95-1	11785893	11830994	11804444	11807110	0.19	cps
Molybdenum	96-1	12859959	12951401	12979694	12930352	0.48	cps
Molybdenum	97-1	7195405	7214972	7289764	7233380	0.69	cps
Molybdenum	98-1	18951896	18823787	19185716	18987133	0.97	cps
Neodymium	150-1	280	197	240	239	17.45	cps
Neodymium	150-2	10	7	3	7	50.03	cps
Nickel	60-2	255207	256897	256367	256157	0.34	cps
Phosphorus	31-2	8739	8813	8269	8607	3.43	cps
Potassium	39-2	852036	858204	855488	855243	0.36	cps
Rhodium	103-1	15484931	15619810	15646696	15583812	0.56	cps
Rhodium	103-2	5654001	5626067	5530501	5603523	1.16	cps
Scandium	45-1	11182521	11242239	11444984	11289914	1.22	cps
Scandium	45-2	196718	195894	192637	195083	1.11	cps
Selenium	82-1	34737	34570	34055	34454	1.03	cps
Selenium	77-2	483	500	530	504	4.69	cps
Selenium	78-2	1770	1793	1753	1772	1.13	cps
Silicon	28-1	2466629	2464500	2486351	2472493	0.49	cps
Silver	107-1	3058890	3029408	3057044	3048447	0.54	cps
Silver	109-1	2894209	2918172	2898160	2903514	0.44	cps
Sodium	23-2	6816964	6708042	6799414	6774807	0.86	cps
Strontium	86-1	725958	733001	723842	727600	0.66	cps
Strontium	88-1	6608438	6656331	6568671	6611147	0.66	cps
Sulfur	34-1	1001177	1021256	992412	1004949	1.47	cps
Terbium	159-1	22733925	22578258	22633199	22648460	0.35	cps
Terbium	159-2	6572256	6641564	6341412	6518411	2.41	cps
Thallium	203-1	2471268	2454905	2492573	2472915	0.76	cps
Thallium	205-1	5840211	5781771	5821030	5814337	0.51	cps
Tin	118-1	1936204	1943256	1947019	1942160	0.28	cps
Titanium	47-1	3526764	3495564	3499821	3507383	0.48	cps
Uranium	238-1	7791492	7927419	7882896	7867269	0.88	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S04	Instrumnet Name :	P8
Client Sample ID :	S04	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:54:56	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	348362	351345	353700	351136	0.76	cps
Ytterbium	172-1	147	143	200	163	19.47	cps
Ytterbium	172-2	63	40	40	48	28.19	cps
Ytterbium	176-1	13247	13560	13310	13372	1.24	cps
Ytterbium	176-2	3671	3754	3661	3695	1.39	cps
Yttrium	89-1	29259259	29439120	28790929	29163103	1.15	cps
Yttrium	89-2	1813135	1841706	1812873	1822571	0.91	cps
Zinc	66-2	719203	717716	714598	717172	0.33	cps
Zirconium	90-1	4112383	4072308	4143773	4109488	0.87	cps
Zirconium	91-1	864631	865845	872147	867541	0.47	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	358527	362343	362409	361093	0.62	cps
Antimony	121-1	4804249	4860421	4779015	4814562	0.87	cps
Arsenic	75-2	81336	82768	81433	81846	0.98	cps
Barium	135-1	5828461	5926664	5831257	5862127	0.95	cps
Barium	137-1	10028231	9984304	9907533	9973356	0.61	cps
Beryllium	9-1	1730995	1667583	1703182	1700587	1.87	cps
Bismuth	209-1	13823922	13723092	13808736	13785250	0.39	cps
Bismuth	209-2	4975410	5014715	5049584	5013237	0.74	cps
Bromine	81-1	4344	4251	4264	4286	1.18	cps
Cadmium	108-1	94508	95813	93639	94653	1.16	cps
Cadmium	106-1	143038	142641	142932	142870	0.14	cps
Cadmium	111-1	1146220	1156111	1158527	1153619	0.57	cps
Calcium	43-1	1556001	1540000	1578256	1558086	1.23	cps
Calcium	44-1	24656389	24418520	24600914	24558608	0.51	cps
Carbon	12-1	5237728	5085020	4937408	5086719	2.95	cps
Carbon	12-2	32706	31948	32085	32246	1.25	cps
Chlorine	35-1	145496	145775	147088	146119	0.58	cps
Chlorine	35-2	590	590	470	550	12.60	cps
Chromium	52-2	907226	907783	903483	906164	0.26	cps
Cobalt	59-2	1822380	1825284	1838530	1828731	0.47	cps
Copper	63-2	14011052	13974095	14004711	13996619	0.14	cps
Dysprosium	156-1	153	157	177	162	7.78	cps
Dysprosium	156-2	23	13	20	19	26.96	cps
Erbium	164-1	143	173	163	160	9.55	cps
Erbium	164-2	67	63	63	64	2.99	cps
Gadolinium	160-1	170	163	157	163	4.08	cps
Gadolinium	160-2	23	10	60	31	83.23	cps
Holmium	165-1	21984332	21958620	21915295	21952749	0.16	cps
Holmium	165-2	6864364	6909287	6766741	6846797	1.06	cps
Indium	115-1	16775016	16807280	16715356	16765884	0.28	cps
Indium	115-2	1390354	1400480	1392105	1394313	0.39	cps
Iron	54-2	1987678	2008377	1964266	1986774	1.11	cps
Iron	56-2	35434621	35730041	35693761	35619474	0.45	cps
Iron	57-2	853782	851258	860076	855039	0.53	cps
Krypton	83-1	337	353	270	320	13.78	cps
Lead	206-1	19638420	19989441	19798832	19808897	0.89	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17103895	16990103	17032644	17042214	0.34	cps
Lead	208-1	78650144	78633179	78817953	78700425	0.13	cps
Lithium	6-1	8737403	8669742	8527127	8644757	1.24	cps
Magnesium	24-2	6778492	7006477	6927666	6904211	1.68	cps
Manganese	55-2	3897759	3902657	3925676	3908697	0.38	cps
Molybdenum	94-1	16325825	16420515	16215945	16320762	0.63	cps
Molybdenum	95-1	23569219	23648050	23737645	23651638	0.36	cps
Molybdenum	96-1	25664565	25642030	26157426	25821340	1.13	cps
Molybdenum	97-1	14523881	14338104	14589296	14483760	0.90	cps
Molybdenum	98-1	38072165	37586793	38080082	37913013	0.75	cps
Neodymium	150-1	453	380	477	437	11.55	cps
Neodymium	150-2	13	17	23	18	28.64	cps
Nickel	60-2	479441	481237	476547	479075	0.49	cps
Phosphorus	31-2	16373	17060	17197	16877	2.62	cps
Potassium	39-2	1835954	1765095	1807200	1802750	1.98	cps
Rhodium	103-1	15413816	15235959	15490840	15380205	0.85	cps
Rhodium	103-2	5615022	5639649	5541196	5598622	0.92	cps
Scandium	45-1	11262996	11297044	11376958	11312333	0.52	cps
Scandium	45-2	199100	197818	198603	198507	0.33	cps
Selenium	82-1	68427	69372	69137	68979	0.71	cps
Selenium	77-2	1050	983	1060	1031	4.04	cps
Selenium	78-2	3537	3484	3624	3548	1.99	cps
Silicon	28-1	4375051	4369504	4332403	4358986	0.53	cps
Silver	107-1	5977460	6091149	5972123	6013577	1.12	cps
Silver	109-1	5776145	5760322	5643785	5726751	1.26	cps
Sodium	23-2	13632069	13788886	13795694	13738883	0.67	cps
Strontium	86-1	1559558	1524063	1514878	1532833	1.54	cps
Strontium	88-1	13010800	13225737	13135507	13124015	0.82	cps
Sulfur	34-1	1209268	1188210	1223847	1207109	1.48	cps
Terbium	159-1	22644804	22533597	22624169	22600857	0.26	cps
Terbium	159-2	6585669	6594629	6562639	6580979	0.25	cps
Thallium	203-1	4900868	4943498	4850850	4898405	0.95	cps
Thallium	205-1	11589339	11710147	11398516	11566000	1.36	cps
Tin	118-1	3833112	3864151	3829775	3842346	0.49	cps
Titanium	47-1	6998945	6949945	7033705	6994198	0.60	cps
Uranium	238-1	15688956	15551415	15859607	15699993	0.98	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S05	Instrumnet Name :	P8
Client Sample ID :	S05	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 11:57:55	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	707185	707795	713325	709435	0.48	cps
Ytterbium	172-1	173	143	183	167	12.49	cps
Ytterbium	172-2	70	60	87	72	18.66	cps
Ytterbium	176-1	23327	24055	23447	23610	1.65	cps
Ytterbium	176-2	7199	7252	7099	7183	1.08	cps
Yttrium	89-1	29092750	29132058	28417435	28880748	1.39	cps
Yttrium	89-2	1870324	1863446	1835484	1856418	0.99	cps
Zinc	66-2	1425551	1423997	1424850	1424799	0.05	cps
Zirconium	90-1	8195723	8241458	8114465	8183882	0.79	cps
Zirconium	91-1	1869238	1871358	1866562	1869053	0.13	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	701974	702911	708036	704307	0.46	cps
Antimony	121-1	9256451	9233474	9352891	9280939	0.68	cps
Arsenic	75-2	159306	159228	161962	160165	0.97	cps
Barium	135-1	11373372	11340799	11461285	11391818	0.55	cps
Barium	137-1	19760393	19514593	19332544	19535844	1.10	cps
Beryllium	9-1	3250451	3296899	3295077	3280809	0.80	cps
Bismuth	209-1	13528623	13540116	13572970	13547236	0.17	cps
Bismuth	209-2	4849849	4892701	4909476	4884009	0.63	cps
Bromine	81-1	4411	4301	4521	4411	2.49	cps
Cadmium	108-1	182704	185075	184491	184090	0.67	cps
Cadmium	106-1	266817	263404	268927	266383	1.05	cps
Cadmium	111-1	2338209	2362119	2417311	2372546	1.71	cps
Calcium	43-1	2984378	3045490	3008851	3012906	1.02	cps
Calcium	44-1	47214171	48325894	48072644	47870903	1.22	cps
Carbon	12-1	5723093	5682812	5574663	5660190	1.36	cps
Carbon	12-2	36362	36211	36732	36435	0.74	cps
Chlorine	35-1	157247	158355	159154	158252	0.61	cps
Chlorine	35-2	517	510	603	543	9.58	cps
Chromium	52-2	1858771	1892028	1920635	1890478	1.64	cps
Cobalt	59-2	3544411	3513373	3499894	3519226	0.65	cps
Copper	63-2	27003861	27497710	27163215	27221595	0.93	cps
Dysprosium	156-1	310	277	267	284	7.98	cps
Dysprosium	156-2	47	30	20	32	41.81	cps
Erbium	164-1	180	183	207	190	7.65	cps
Erbium	164-2	60	33	50	48	28.20	cps
Gadolinium	160-1	243	210	227	227	7.35	cps
Gadolinium	160-2	50	53	37	47	18.89	cps
Holmium	165-1	21830407	22165404	21702321	21899377	1.09	cps
Holmium	165-2	6865564	6778101	6839169	6827611	0.66	cps
Indium	115-1	16743467	16554179	16400710	16566119	1.04	cps
Indium	115-2	1362365	1370725	1367918	1367003	0.31	cps
Iron	54-2	3870271	3862236	3821793	3851433	0.67	cps
Iron	56-2	68443216	69437724	70799832	69560257	1.70	cps
Iron	57-2	1766666	1745099	1781878	1764548	1.05	cps
Krypton	83-1	313	313	297	308	3.13	cps
Lead	206-1	38656009	37722536	38587289	38321945	1.36	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	32655839	32833064	33090057	32859653	0.66	cps
Lead	208-1	151638070	151246787	153022521	151969126	0.61	cps
Lithium	6-1	8467041	8504424	8533085	8501516	0.39	cps
Magnesium	24-2	13494906	13594937	13675444	13588429	0.67	cps
Manganese	55-2	7426776	7425180	7607639	7486532	1.40	cps
Molybdenum	94-1	31825263	31914986	31772241	31837497	0.23	cps
Molybdenum	95-1	46316259	46063424	45861693	46080459	0.49	cps
Molybdenum	96-1	51071744	51607384	50357033	51012054	1.23	cps
Molybdenum	97-1	28454403	28765642	28908334	28709460	0.81	cps
Molybdenum	98-1	73990552	74376644	75868022	74745073	1.33	cps
Neodymium	150-1	857	880	773	837	6.70	cps
Neodymium	150-2	10	17	13	13	25.01	cps
Nickel	60-2	908170	916768	912181	912373	0.47	cps
Phosphorus	31-2	34073	34107	33756	33979	0.57	cps
Potassium	39-2	3515272	3471873	3486973	3491373	0.63	cps
Rhodium	103-1	15294735	15214583	15426486	15311935	0.70	cps
Rhodium	103-2	5573103	5500922	5518407	5530810	0.68	cps
Scandium	45-1	11099969	11363835	11151336	11205047	1.25	cps
Scandium	45-2	197555	198716	201203	199158	0.94	cps
Selenium	82-1	134934	136981	135120	135678	0.83	cps
Selenium	77-2	1857	2097	2070	2008	6.55	cps
Selenium	78-2	6812	7089	7145	7015	2.54	cps
Silicon	28-1	8066588	8086432	8014937	8055986	0.46	cps
Silver	107-1	11633538	11395797	11521421	11516919	1.03	cps
Silver	109-1	11011688	10880147	11052876	10981570	0.82	cps
Sodium	23-2	26624307	26648444	27263583	26845445	1.35	cps
Strontium	86-1	3005547	2963861	2964011	2977806	0.81	cps
Strontium	88-1	25825721	25919723	25647980	25797808	0.53	cps
Sulfur	34-1	1604486	1587276	1606482	1599415	0.66	cps
Terbium	159-1	22325799	22361828	22461847	22383158	0.31	cps
Terbium	159-2	6556252	6544610	6544409	6548424	0.10	cps
Thallium	203-1	9290493	9400400	9370768	9353887	0.61	cps
Thallium	205-1	22182366	22292825	22460713	22311968	0.63	cps
Tin	118-1	7599228	7569093	7344557	7504293	1.85	cps
Titanium	47-1	13854367	13974577	13975637	13934860	0.50	cps
Uranium	238-1	30341535	30028802	30457384	30275907	0.73	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S06	Instrumnet Name :	P8
Client Sample ID :	S06	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:00:43	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1457153	1440802	1466481	1454812	0.89	cps
Ytterbium	172-1	243	220	167	210	18.71	cps
Ytterbium	172-2	67	77	63	69	10.08	cps
Ytterbium	176-1	45538	44404	44662	44868	1.32	cps
Ytterbium	176-2	13377	13657	13664	13566	1.21	cps
Yttrium	89-1	28963164	28743283	28341335	28682594	1.10	cps
Yttrium	89-2	1824590	1840985	1848379	1837985	0.66	cps
Zinc	66-2	2888992	2959556	2926163	2924903	1.21	cps
Zirconium	90-1	16081755	15928726	16000432	16003638	0.48	cps
Zirconium	91-1	3648868	3618767	3589845	3619160	0.82	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1470582	1475943	1463623	1470049	0.42	cps
Antimony	121-1	18680939	18378417	18399688	18486348	0.91	cps
Arsenic	75-2	318984	317218	320381	318861	0.50	cps
Barium	135-1	22922713	22771447	22842365	22845508	0.33	cps
Barium	137-1	38694961	39134433	38344239	38724544	1.02	cps
Beryllium	9-1	6398096	6342319	6492686	6411034	1.19	cps
Bismuth	209-1	13516369	13283944	13216026	13338780	1.18	cps
Bismuth	209-2	4833745	4801576	4803744	4813021	0.37	cps
Bromine	81-1	4521	4547	4501	4523	0.52	cps
Cadmium	108-1	360908	361624	361093	361209	0.10	cps
Cadmium	106-1	511130	521852	514994	515992	1.05	cps
Cadmium	111-1	4632256	4633747	4626030	4630678	0.09	cps
Calcium	43-1	6052022	6037285	6084596	6057968	0.40	cps
Calcium	44-1	96790155	95648842	96930375	96456457	0.73	cps
Carbon	12-1	6598600	6456340	6617489	6557476	1.34	cps
Carbon	12-2	44929	45269	45477	45225	0.61	cps
Chlorine	35-1	182167	185391	187852	185137	1.54	cps
Chlorine	35-2	597	763	697	686	12.24	cps
Chromium	52-2	3828577	3718347	3701812	3749578	1.84	cps
Cobalt	59-2	6987202	6904858	6967000	6953020	0.62	cps
Copper	63-2	53917879	53130588	53057071	53368513	0.89	cps
Dysprosium	156-1	473	480	570	508	10.63	cps
Dysprosium	156-2	60	30	43	44	33.82	cps
Erbium	164-1	320	287	257	288	11.01	cps
Erbium	164-2	80	117	87	94	20.68	cps
Gadolinium	160-1	260	280	307	282	8.29	cps
Gadolinium	160-2	103	83	87	91	11.77	cps
Holmium	165-1	22046079	21822380	22013976	21960811	0.55	cps
Holmium	165-2	6862683	6867375	6819182	6849747	0.39	cps
Indium	115-1	16089554	16376892	16223757	16230068	0.89	cps
Indium	115-2	1333283	1323869	1337866	1331673	0.54	cps
Iron	54-2	7600116	7626122	7673744	7633327	0.49	cps
Iron	56-2	138371515	137567661	140344401	138761192	1.03	cps
Iron	57-2	3492232	3464907	3485215	3480785	0.41	cps
Krypton	83-1	357	447	373	392	12.21	cps
Lead	206-1	75811841	76961544	75486629	76086671	1.02	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	64966316	64730841	64287666	64661607	0.53	cps
Lead	208-1	302204297	298196749	297907376	299436141	0.80	cps
Lithium	6-1	8573796	8469138	8409260	8484065	0.98	cps
Magnesium	24-2	27416201	26735024	26799385	26983537	1.39	cps
Manganese	55-2	15046564	15036579	15130503	15071216	0.34	cps
Molybdenum	94-1	63813879	64032234	63720577	63855563	0.25	cps
Molybdenum	95-1	92174132	94344812	91178279	92565741	1.75	cps
Molybdenum	96-1	100118969	103449595	100012165	101193576	1.93	cps
Molybdenum	97-1	56992047	57742352	56764926	57166442	0.89	cps
Molybdenum	98-1	149925158	150637878	148841474	149801503	0.60	cps
Neodymium	150-1	1520	1663	1753	1646	7.15	cps
Neodymium	150-2	37	57	50	48	21.31	cps
Nickel	60-2	1933814	1909746	1948980	1930847	1.02	cps
Phosphorus	31-2	68447	66769	67700	67639	1.24	cps
Potassium	39-2	7048051	6962722	6923213	6977996	0.91	cps
Rhodium	103-1	14818827	14884902	14793002	14832244	0.32	cps
Rhodium	103-2	5368513	5456202	5465181	5429965	0.98	cps
Scandium	45-1	11401280	11423427	11308623	11377777	0.54	cps
Scandium	45-2	204282	201559	201131	202324	0.84	cps
Selenium	82-1	267412	268035	266862	267436	0.22	cps
Selenium	77-2	3954	4081	4007	4014	1.58	cps
Selenium	78-2	13597	13450	13657	13568	0.78	cps
Silicon	28-1	17354344	16967102	17450448	17257298	1.48	cps
Silver	107-1	22494649	22836027	22497812	22609496	0.87	cps
Silver	109-1	21694760	21541405	21471028	21569064	0.53	cps
Sodium	23-2	53658661	53495818	53558828	53571102	0.15	cps
Strontium	86-1	6052829	5995449	6038862	6029047	0.50	cps
Strontium	88-1	51631738	51597094	51950236	51726356	0.38	cps
Sulfur	34-1	2425428	2440353	2401641	2422474	0.81	cps
Terbium	159-1	22699146	22534631	22237911	22490563	1.04	cps
Terbium	159-2	6673098	6581308	6653700	6636035	0.73	cps
Thallium	203-1	18352768	18883479	18749629	18661959	1.48	cps
Thallium	205-1	44190271	44610629	43929799	44243567	0.78	cps
Tin	118-1	14948576	14832421	14816999	14865999	0.48	cps
Titanium	47-1	28109064	27620785	27748969	27826272	0.91	cps
Uranium	238-1	61678972	60904626	60676381	61086660	0.86	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S07	Instrumnet Name :	P8
Client Sample ID :	S07	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:03:30	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2923400	2927242	2936323	2928988	0.23	cps
Ytterbium	172-1	270	317	223	270	17.28	cps
Ytterbium	172-2	150	120	130	133	11.46	cps
Ytterbium	176-1	85833	87292	87413	86846	1.01	cps
Ytterbium	176-2	27024	26300	26654	26659	1.36	cps
Yttrium	89-1	29044100	28841801	29065101	28983667	0.43	cps
Yttrium	89-2	1879405	1855412	1870312	1868376	0.65	cps
Zinc	66-2	5717355	5698640	5702779	5706258	0.17	cps
Zirconium	90-1	32429556	32624555	32270707	32441606	0.55	cps
Zirconium	91-1	7101522	7372399	7188707	7220876	1.91	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6934661	6941453	6975201	6950439	0.31	cps
Antimony	121-1	12956	13036	12963	12985	0.34	cps
Arsenic	75-2	173	130	173	159	15.75	cps
Barium	135-1	8700	8456	8123	8426	3.44	cps
Barium	137-1	14515	14685	13777	14325	3.37	cps
Beryllium	9-1	2515	2274	2109	2299	8.89	cps
Bismuth	209-1	11526688	11298309	11458907	11427968	1.03	cps
Bismuth	209-2	4263553	4242817	4302168	4269513	0.71	cps
Bromine	81-1	4741	4701	4771	4738	0.74	cps
Cadmium	108-1	293	293	260	282	6.82	cps
Cadmium	106-1	8976	8860	8823	8886	0.90	cps
Cadmium	111-1	7118	7113	6977	7070	1.13	cps
Calcium	43-1	26912580	27023940	26644792	26860437	0.73	cps
Calcium	44-1	434988394	425667287	431304047	430653242	1.09	cps
Carbon	12-1	5938887	5869525	5847166	5885193	0.81	cps
Carbon	12-2	49480	49757	50486	49908	1.04	cps
Chlorine	35-1	135087	131692	129291	132023	2.21	cps
Chlorine	35-2	417	447	463	442	5.35	cps
Chromium	52-2	11625	11865	12035	11842	1.74	cps
Cobalt	59-2	14064	14007	14097	14056	0.32	cps
Copper	63-2	13506	12976	13330	13271	2.04	cps
Dysprosium	156-1	680	657	673	670	1.79	cps
Dysprosium	156-2	273	150	240	221	28.85	cps
Erbium	164-1	743	930	800	824	11.61	cps
Erbium	164-2	247	200	250	232	12.04	cps
Gadolinium	160-1	703	670	677	683	2.58	cps
Gadolinium	160-2	227	227	237	230	2.51	cps
Holmium	165-1	20383783	20247581	20078301	20236555	0.76	cps
Holmium	165-2	6516636	6639694	6498478	6551602	1.17	cps
Indium	115-1	14697908	14607559	14628941	14644803	0.32	cps
Indium	115-2	1287164	1290695	1303685	1293848	0.67	cps
Iron	54-2	34892304	34617165	35054697	34854722	0.63	cps
Iron	56-2	644720590	643781457	643055177	643852408	0.13	cps
Iron	57-2	16273774	16056751	16082949	16137825	0.73	cps
Krypton	83-1	427	450	487	454	6.66	cps
Lead	206-1	19739	20039	19038	19605	2.62	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16554	17749	16057	16787	5.18	cps
Lead	208-1	78441	80141	74477	77687	3.74	cps
Lithium	6-1	7514039	7659856	7615379	7596425	0.98	cps
Magnesium	24-2	125630205	127499805	127235355	126788455	0.80	cps
Manganese	55-2	7215	6958	6838	7004	2.75	cps
Molybdenum	94-1	45324	44474	44387	44728	1.16	cps
Molybdenum	95-1	47133	46802	46123	46686	1.10	cps
Molybdenum	96-1	53282	53128	52455	52955	0.83	cps
Molybdenum	97-1	28366	27638	27063	27689	2.36	cps
Molybdenum	98-1	72043	71681	70625	71450	1.03	cps
Neodymium	150-1	357	320	373	350	7.79	cps
Neodymium	150-2	97	70	93	87	16.77	cps
Nickel	60-2	7159	6862	6862	6961	2.46	cps
Phosphorus	31-2	113	110	117	113	2.94	cps
Potassium	39-2	34136569	34321419	34533517	34330501	0.58	cps
Rhodium	103-1	13130156	12844722	12828890	12934590	1.31	cps
Rhodium	103-2	4874409	4869928	4853038	4865791	0.23	cps
Scandium	45-1	10385307	10555759	10506090	10482385	0.84	cps
Scandium	45-2	191302	193744	194957	193334	0.96	cps
Selenium	82-1	-3	-43	-60	-36	-81.89	cps
Selenium	77-2	3	7	3	4	43.40	cps
Selenium	78-2	13	23	13	17	34.65	cps
Silicon	28-1	754147	740750	732854	742583	1.45	cps
Silver	107-1	4144	3814	3761	3906	5.32	cps
Silver	109-1	3704	3577	3510	3597	2.73	cps
Sodium	23-2	243174623	242873016	244107250	243384963	0.26	cps
Strontium	86-1	17578	17241	17765	17528	1.51	cps
Strontium	88-1	147627	148554	146664	147615	0.64	cps
Sulfur	34-1	703419	701740	695428	700196	0.60	cps
Terbium	159-1	20854948	20551882	20672571	20693134	0.74	cps
Terbium	159-2	6227468	6288363	6324240	6280024	0.78	cps
Thallium	203-1	2254	1914	1550	1906	18.46	cps
Thallium	205-1	5518	5078	3987	4861	16.21	cps
Tin	118-1	4477	4327	4057	4287	4.97	cps
Titanium	47-1	6522	6592	7139	6751	5.00	cps
Uranium	238-1	3964	3747	3464	3725	6.73	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	S08	Instrumnet Name :	P8
Client Sample ID :	S08	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:06:15	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	760	767	757	761	0.67	cps
Ytterbium	172-1	910	853	803	856	6.24	cps
Ytterbium	172-2	333	307	370	337	9.45	cps
Ytterbium	176-1	3020	2947	2844	2937	3.02	cps
Ytterbium	176-2	527	610	613	583	8.42	cps
Yttrium	89-1	26624858	27050735	26611718	26762437	0.93	cps
Yttrium	89-2	1806773	1811952	1828444	1815723	0.62	cps
Zinc	66-2	3204	3110	3007	3107	3.17	cps
Zirconium	90-1	50488	51046	50324	50619	0.75	cps
Zirconium	91-1	11118	10964	11228	11103	1.19	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	37134	36947	36659	36913	0.65	cps
Antimony	121-1	3871967	3908574	3938605	3906382	0.85	cps
Arsenic	75-2	69212	68857	69175	69081	0.28	cps
Barium	135-1	451715	454320	457090	454375	0.59	cps
Barium	137-1	781691	790088	788884	786888	0.58	cps
Beryllium	9-1	697819	700194	698322	698779	0.18	cps
Bismuth	209-1	14296648	14402951	14490882	14396827	0.68	cps
Bismuth	209-2	5358541	5359940	5248847	5322443	1.20	cps
Bromine	81-1	4544	4674	4524	4581	1.78	cps
Cadmium	108-1	30778	31219	31543	31180	1.23	cps
Cadmium	106-1	51231	51740	52255	51742	0.99	cps
Cadmium	111-1	478335	478960	481226	479507	0.32	cps
Calcium	43-1	118392	121538	120949	120293	1.39	cps
Calcium	44-1	2043635	2090743	2023692	2052690	1.68	cps
Carbon	12-1	5479126	5186437	5083302	5249622	3.91	cps
Carbon	12-2	32713	31213	31334	31753	2.62	cps
Chlorine	35-1	130431	128726	129012	129389	0.71	cps
Chlorine	35-2	393	470	467	443	9.77	cps
Chromium	52-2	387344	388538	385627	387169	0.38	cps
Cobalt	59-2	749796	747494	738306	745199	0.82	cps
Copper	63-2	578460	585262	584382	582702	0.63	cps
Dysprosium	156-1	47	50	33	43	20.36	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	97	140	150	129	21.99	cps
Erbium	164-2	47	30	20	32	41.81	cps
Gadolinium	160-1	120	140	163	141	15.37	cps
Gadolinium	160-2	20	37	37	31	30.93	cps
Holmium	165-1	22277676	22299623	22517059	22364786	0.59	cps
Holmium	165-2	7191718	7086097	7219314	7165710	0.98	cps
Indium	115-1	17961485	17813961	17962384	17912610	0.48	cps
Indium	115-2	1606287	1520471	1519369	1548709	3.22	cps
Iron	54-2	320531	321216	321676	321141	0.18	cps
Iron	56-2	5965952	5953716	5864734	5928134	0.93	cps
Iron	57-2	141500	141118	140861	141160	0.23	cps
Krypton	83-1	320	290	297	302	5.21	cps
Lead	206-1	3391995	3310963	3380270	3361076	1.30	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2804263	2750561	2741088	2765304	1.23	cps
Lead	208-1	13005040	12817122	12947705	12923289	0.75	cps
Lithium	6-1	9292160	9240379	9263635	9265391	0.28	cps
Magnesium	24-2	312160	316604	312607	313790	0.78	cps
Manganese	55-2	153613	152656	153859	153376	0.41	cps
Molybdenum	94-1	1607	1443	1417	1489	6.91	cps
Molybdenum	95-1	1003	1030	1027	1020	1.42	cps
Molybdenum	96-1	2167	1967	2167	2100	5.50	cps
Molybdenum	97-1	780	660	683	708	8.99	cps
Molybdenum	98-1	1987	1827	1840	1885	4.71	cps
Neodymium	150-1	30	70	40	47	44.61	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	208143	208755	208166	208355	0.17	cps
Phosphorus	31-2	93	80	107	93	14.29	cps
Potassium	39-2	289321	290735	291156	290404	0.33	cps
Rhodium	103-1	16404822	16760085	16677256	16614054	1.12	cps
Rhodium	103-2	6032184	6063654	6008205	6034681	0.46	cps
Scandium	45-1	12004281	11963440	11831991	11933237	0.75	cps
Scandium	45-2	213563	211084	211720	212122	0.61	cps
Selenium	82-1	58965	59098	59714	59259	0.67	cps
Selenium	77-2	890	910	990	930	5.69	cps
Selenium	78-2	3004	2960	3107	3024	2.49	cps
Silicon	28-1	602307	599396	598316	600006	0.34	cps
Silver	107-1	1107852	1121576	1122074	1117167	0.72	cps
Silver	109-1	1071334	1069502	1073173	1071336	0.17	cps
Sodium	23-2	1191871	1184600	1182105	1186192	0.43	cps
Strontium	86-1	2017	2154	2104	2091	3.31	cps
Strontium	88-1	13303	14000	13787	13697	2.61	cps
Sulfur	34-1	744509	746415	746961	745962	0.17	cps
Terbium	159-1	23238351	23358025	23336158	23310845	0.27	cps
Terbium	159-2	7095333	6899909	7017540	7004261	1.40	cps
Thallium	203-1	4098957	4033381	4052321	4061553	0.83	cps
Thallium	205-1	9494856	9284560	9278723	9352713	1.32	cps
Tin	118-1	3067	2780	3124	2990	6.16	cps
Titanium	47-1	350	360	360	357	1.62	cps
Uranium	238-1	180	167	173	173	3.85	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICV007	Instrumnet Name :	P8
Client Sample ID :	ICV007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:12:53	DataFile Name :	012ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	293637	294458	290592	292896	0.70	cps
Ytterbium	172-1	93	110	127	110	15.15	cps
Ytterbium	172-2	40	50	33	41	20.41	cps
Ytterbium	176-1	2387	2334	2374	2365	1.17	cps
Ytterbium	176-2	367	317	443	376	16.99	cps
Yttrium	89-1	30224336	30572685	30005329	30267450	0.95	cps
Yttrium	89-2	1979219	1973095	1989374	1980563	0.42	cps
Zinc	66-2	116642	116951	116540	116711	0.18	cps
Zirconium	90-1	1400	1330	1293	1341	4.04	cps
Zirconium	91-1	1060	1113	1117	1097	2.90	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	87	67	79	13.58	cps
Antimony	121-1	1177	1350	1253	1260	6.89	cps
Arsenic	75-2	7	10	3	7	50.03	cps
Barium	135-1	360	307	340	336	8.03	cps
Barium	137-1	517	583	547	549	6.08	cps
Beryllium	9-1	1207	1187	1047	1147	7.60	cps
Bismuth	209-1	14381237	14346761	14601173	14443057	0.96	cps
Bismuth	209-2	5351878	5317935	5323001	5330938	0.34	cps
Bromine	81-1	4374	4564	4381	4440	2.43	cps
Cadmium	108-1	50	23	43	39	35.69	cps
Cadmium	106-1	9203	9473	9357	9344	1.45	cps
Cadmium	111-1	6494	6695	6599	6596	1.53	cps
Calcium	43-1	650	587	523	587	10.80	cps
Calcium	44-1	28395	27780	27530	27902	1.60	cps
Carbon	12-1	4711265	4369432	4228766	4436487	5.59	cps
Carbon	12-2	26127	26507	26287	26307	0.73	cps
Chlorine	35-1	128123	127805	128396	128108	0.23	cps
Chlorine	35-2	443	407	397	416	5.91	cps
Chromium	52-2	2427	2244	2444	2371	4.68	cps
Cobalt	59-2	297	273	347	306	12.26	cps
Copper	63-2	3520	3557	3524	3534	0.57	cps
Dysprosium	156-1	27	30	37	31	16.37	cps
Dysprosium	156-2	7	0	3	3	100.05	cps
Erbium	164-1	90	140	113	114	21.86	cps
Erbium	164-2	17	40	40	32	41.80	cps
Gadolinium	160-1	133	93	133	120	19.25	cps
Gadolinium	160-2	17	30	40	29	40.51	cps
Holmium	165-1	22539613	22949709	22497022	22662115	1.10	cps
Holmium	165-2	7196373	7158284	7096404	7150354	0.71	cps
Indium	115-1	18006690	17584474	18180730	17923965	1.71	cps
Indium	115-2	1594601	1495056	1504832	1531496	3.58	cps
Iron	54-2	1060	1110	1107	1092	2.56	cps
Iron	56-2	17284	16663	16283	16743	3.02	cps
Iron	57-2	413	500	427	447	10.45	cps
Krypton	83-1	353	390	367	370	5.02	cps
Lead	206-1	5548	5031	5228	5269	4.95	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4424	4231	4237	4297	2.55	cps
Lead	208-1	21167	20367	20060	20531	2.78	cps
Lithium	6-1	9445845	9322918	9172269	9313677	1.47	cps
Magnesium	24-2	4207	4237	4317	4254	1.34	cps
Manganese	55-2	390	390	360	380	4.56	cps
Molybdenum	94-1	790	777	793	787	1.12	cps
Molybdenum	95-1	780	687	743	737	6.38	cps
Molybdenum	96-1	1010	867	893	923	8.26	cps
Molybdenum	97-1	463	387	520	457	14.65	cps
Molybdenum	98-1	1253	1210	1163	1209	3.72	cps
Neodymium	150-1	20	27	20	22	17.33	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	1353	1547	1610	1503	8.89	cps
Phosphorus	31-2	103	87	87	92	10.43	cps
Potassium	39-2	10427	10621	10220	10423	1.92	cps
Rhodium	103-1	16394186	16897397	16831791	16707792	1.64	cps
Rhodium	103-2	6014646	6105031	6077481	6065720	0.76	cps
Scandium	45-1	12122271	11788034	11941896	11950734	1.40	cps
Scandium	45-2	210729	210462	209357	210182	0.35	cps
Selenium	82-1	-117	-133	-20	-90	-67.99	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	3	10	7	7	50.03	cps
Silicon	28-1	575360	574242	571977	573860	0.30	cps
Silver	107-1	813	680	717	737	9.35	cps
Silver	109-1	633	533	460	542	16.05	cps
Sodium	23-2	52213	50962	51631	51602	1.21	cps
Strontium	86-1	607	620	640	622	2.70	cps
Strontium	88-1	1377	1223	1387	1329	6.89	cps
Sulfur	34-1	753404	758024	760847	757425	0.50	cps
Terbium	159-1	23644356	23323030	23259621	23409003	0.88	cps
Terbium	159-2	6942173	6959327	6822992	6908164	1.07	cps
Thallium	203-1	887	777	793	819	7.24	cps
Thallium	205-1	2100	1997	1900	1999	5.00	cps
Tin	118-1	2770	2707	2787	2755	1.53	cps
Titanium	47-1	360	287	283	310	13.98	cps
Uranium	238-1	123	80	103	102	21.22	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICB007	Instrumnet Name :	P8
Client Sample ID :	ICB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:16:15	DataFile Name :	013CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	20	23	19	26.96	cps
Ytterbium	172-1	127	123	103	118	10.72	cps
Ytterbium	172-2	30	37	37	34	11.18	cps
Ytterbium	176-1	2387	2444	2470	2434	1.75	cps
Ytterbium	176-2	290	383	377	350	14.88	cps
Yttrium	89-1	30015280	29996396	30112366	30041348	0.21	cps
Yttrium	89-2	1973457	1979105	2000615	1984392	0.72	cps
Zinc	66-2	330	380	367	359	7.21	cps
Zirconium	90-1	960	1080	1113	1051	7.67	cps
Zirconium	91-1	230	173	243	216	17.24	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	7080640	7350620	7275230	7235497	1.93	cps
Antimony	121-1	20886	21831	21363	21360	2.21	cps
Arsenic	75-2	107	123	130	120	10.01	cps
Barium	135-1	6828	6722	6665	6738	1.23	cps
Barium	137-1	11618	11959	11465	11681	2.16	cps
Beryllium	9-1	2762	2694	2711	2722	1.31	cps
Bismuth	209-1	13162142	13186377	13301788	13216769	0.56	cps
Bismuth	209-2	4787009	4814349	4753007	4784788	0.64	cps
Bromine	81-1	5915	6482	6675	6357	6.22	cps
Cadmium	108-1	7085	7495	7199	7260	2.92	cps
Cadmium	106-1	8656	8803	8506	8655	1.71	cps
Cadmium	111-1	9903	9678	9268	9616	3.35	cps
Calcium	43-1	6320340	6367092	6300784	6329405	0.54	cps
Calcium	44-1	102074315	102923118	101833972	102277135	0.56	cps
Carbon	12-1	52466051	54127933	53734648	53442877	1.63	cps
Carbon	12-2	354075	356815	353108	354666	0.54	cps
Chlorine	35-1	92962425	101557022	104297668	99605705	5.94	cps
Chlorine	35-2	394790	407327	412127	404748	2.21	cps
Chromium	52-2	77981	78071	76362	77472	1.24	cps
Cobalt	59-2	8519	8576	8866	8654	2.15	cps
Copper	63-2	47840	47780	48121	47914	0.38	cps
Dysprosium	156-1	83	100	117	100	16.67	cps
Dysprosium	156-2	33	23	20	26	27.15	cps
Erbium	164-1	107	203	163	158	30.79	cps
Erbium	164-2	37	57	40	44	24.11	cps
Gadolinium	160-1	190	173	207	190	8.77	cps
Gadolinium	160-2	53	53	40	49	15.74	cps
Holmium	165-1	22253414	22223826	22316869	22264703	0.21	cps
Holmium	165-2	6900180	7060071	6927537	6962596	1.23	cps
Indium	115-1	16802890	16937142	16845383	16861805	0.41	cps
Indium	115-2	1408661	1419197	1394366	1407408	0.89	cps
Iron	54-2	16111497	16067536	16255504	16144846	0.61	cps
Iron	56-2	295982349	297163176	296436889	296527471	0.20	cps
Iron	57-2	7428697	7362187	7488657	7426514	0.85	cps
Krypton	83-1	337	383	320	347	9.47	cps
Lead	206-1	72977	74989	73054	73673	1.55	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	58089	58130	59034	58417	0.91	cps
Lead	208-1	272183	276138	276989	275103	0.93	cps
Lithium	6-1	8497830	8515942	8414926	8476232	0.64	cps
Magnesium	24-2	26542238	26864300	26567260	26657933	0.67	cps
Manganese	55-2	11595	12018	11902	11838	1.85	cps
Molybdenum	94-1	10829463	10976304	10825905	10877224	0.79	cps
Molybdenum	95-1	19092416	19242259	19349522	19228065	0.67	cps
Molybdenum	96-1	20275369	20608356	21048824	20644183	1.88	cps
Molybdenum	97-1	11755680	11841279	11998062	11865007	1.04	cps
Molybdenum	98-1	31191212	31209005	30898490	31099569	0.56	cps
Neodymium	150-1	117	110	87	104	15.08	cps
Neodymium	150-2	33	20	23	26	27.15	cps
Nickel	60-2	11848	11662	11608	11706	1.08	cps
Phosphorus	31-2	359178	363580	366680	363146	1.04	cps
Potassium	39-2	14520286	14788045	14853591	14720641	1.20	cps
Rhodium	103-1	15022857	15039089	15295916	15119287	1.01	cps
Rhodium	103-2	5545099	5532007	5465216	5514107	0.78	cps
Scandium	45-1	11628979	11777101	11716809	11707630	0.64	cps
Scandium	45-2	205126	206548	204029	205235	0.62	cps
Selenium	82-1	43	-33	50	20	231.50	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	10	7	10	33.30	cps
Silicon	28-1	968881	976195	972249	972441	0.38	cps
Silver	107-1	2830	2614	2194	2546	12.72	cps
Silver	109-1	2600	2290	2190	2360	9.06	cps
Sodium	23-2	56807406	57587669	57055852	57150309	0.70	cps
Strontium	86-1	204262	204817	205487	204855	0.30	cps
Strontium	88-1	1885237	1907581	1875432	1889416	0.87	cps
Sulfur	34-1	9091998	9104450	9129893	9108781	0.21	cps
Terbium	159-1	22924334	22366887	23112385	22801202	1.70	cps
Terbium	159-2	6787918	6733044	6692843	6737935	0.71	cps
Thallium	203-1	2860	3010	3437	3103	9.65	cps
Thallium	205-1	6775	7479	8033	7429	8.48	cps
Tin	118-1	4941	5464	6513	5639	14.19	cps
Titanium	47-1	5973780	6200197	6073887	6082621	1.87	cps
Uranium	238-1	1030	993	1100	1041	5.21	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSA007	Instrumnet Name :	P8
Client Sample ID :	ICSA007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:19:42	DataFile Name :	014ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	383	327	487	399	20.34	cps
Ytterbium	172-1	123	143	97	121	19.33	cps
Ytterbium	172-2	50	43	33	42	19.87	cps
Ytterbium	176-1	2227	2177	2207	2204	1.14	cps
Ytterbium	176-2	297	280	320	299	6.72	cps
Yttrium	89-1	29823720	29639988	29340640	29601449	0.82	cps
Yttrium	89-2	1947127	1958206	1916332	1940555	1.12	cps
Zinc	66-2	6368	6818	6438	6542	3.70	cps
Zirconium	90-1	1427	1420	1510	1452	3.45	cps
Zirconium	91-1	293	323	303	307	4.98	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6821986	6934903	6953976	6903621	1.03	cps
Antimony	121-1	383172	384531	381277	382993	0.43	cps
Arsenic	75-2	7048	6672	6902	6874	2.76	cps
Barium	135-1	95769	96124	95386	95760	0.39	cps
Barium	137-1	162780	164132	165077	163996	0.70	cps
Beryllium	9-1	135729	135237	134630	135199	0.41	cps
Bismuth	209-1	13205316	13011257	12807916	13008163	1.53	cps
Bismuth	209-2	4704970	4687526	4624232	4672243	0.91	cps
Bromine	81-1	6061	6171	6018	6084	1.30	cps
Cadmium	108-1	12269	12713	12489	12490	1.78	cps
Cadmium	106-1	16213	16009	16180	16134	0.68	cps
Cadmium	111-1	96994	96433	97810	97079	0.71	cps
Calcium	43-1	6123400	6205436	6119154	6149330	0.79	cps
Calcium	44-1	98614729	99249202	98415689	98759873	0.44	cps
Carbon	12-1	53813434	54263543	54209298	54095425	0.45	cps
Carbon	12-2	356220	354224	355379	355274	0.28	cps
Chlorine	35-1	92808779	98698119	101804568	97770489	4.67	cps
Chlorine	35-2	393996	394870	401740	396869	1.07	cps
Chromium	52-2	147623	146599	148659	147627	0.70	cps
Cobalt	59-2	145784	147643	147498	146975	0.70	cps
Copper	63-2	153843	152680	151663	152728	0.71	cps
Dysprosium	156-1	123	100	70	98	27.35	cps
Dysprosium	156-2	20	17	33	23	37.78	cps
Erbium	164-1	170	167	190	176	7.19	cps
Erbium	164-2	53	63	60	59	8.65	cps
Gadolinium	160-1	180	227	177	194	14.38	cps
Gadolinium	160-2	37	43	43	41	9.35	cps
Holmium	165-1	22255949	22147258	22084207	22162471	0.39	cps
Holmium	165-2	6807490	6925893	6965976	6899786	1.19	cps
Indium	115-1	16761407	16703357	16538598	16667787	0.69	cps
Indium	115-2	1390083	1395553	1392287	1392641	0.20	cps
Iron	54-2	15651998	15325142	15395934	15457691	1.11	cps
Iron	56-2	285591742	285028876	283228516	284616378	0.43	cps
Iron	57-2	7141896	7130503	7253546	7175315	0.95	cps
Krypton	83-1	353	303	327	328	7.63	cps
Lead	206-1	356578	356438	355387	356135	0.18	cps

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LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	293251	297502	295435	295396	0.72	cps
Lead	208-1	1366770	1370075	1369057	1368634	0.12	cps
Lithium	6-1	8601006	8352335	8491528	8481623	1.47	cps
Magnesium	24-2	25781615	25487460	25358181	25542419	0.85	cps
Manganese	55-2	40848	40698	41129	40892	0.54	cps
Molybdenum	94-1	10627837	10500876	10414871	10514528	1.02	cps
Molybdenum	95-1	18745763	18792336	18651228	18729776	0.38	cps
Molybdenum	96-1	20091086	20011586	19802989	19968554	0.75	cps
Molybdenum	97-1	11413462	11513168	11160874	11362501	1.60	cps
Molybdenum	98-1	29952642	29866625	29583803	29801023	0.65	cps
Neodymium	150-1	90	127	77	98	26.48	cps
Neodymium	150-2	37	30	17	28	36.66	cps
Nickel	60-2	48663	49315	50138	49372	1.50	cps
Phosphorus	31-2	349843	351126	352863	351277	0.43	cps
Potassium	39-2	14350275	14245537	14124877	14240230	0.79	cps
Rhodium	103-1	15234117	15105981	14855219	15065105	1.28	cps
Rhodium	103-2	5452859	5451511	5483524	5462631	0.33	cps
Scandium	45-1	11654943	11549262	11554904	11586370	0.51	cps
Scandium	45-2	204450	203736	205213	204466	0.36	cps
Selenium	82-1	5655	5741	5675	5690	0.80	cps
Selenium	77-2	77	100	73	83	17.44	cps
Selenium	78-2	330	260	267	286	13.53	cps
Silicon	28-1	1002217	1011802	1001855	1005291	0.56	cps
Silver	107-1	416122	418241	422760	419041	0.81	cps
Silver	109-1	401199	404625	403860	403228	0.45	cps
Sodium	23-2	55043759	54664599	54861391	54856583	0.35	cps
Strontium	86-1	199530	200398	201246	200392	0.43	cps
Strontium	88-1	1802580	1813669	1820141	1812130	0.49	cps
Sulfur	34-1	8904549	9013580	8774408	8897513	1.35	cps
Terbium	159-1	22449426	22512709	22436353	22466163	0.18	cps
Terbium	159-2	6682003	6572165	6610140	6621436	0.84	cps
Thallium	203-1	357173	360033	363783	360330	0.92	cps
Thallium	205-1	859864	855124	856635	857208	0.28	cps
Tin	118-1	4934	5138	5081	5051	2.08	cps
Titanium	47-1	5846940	5931817	5805493	5861416	1.10	cps
Uranium	238-1	1037	980	1017	1011	2.84	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	ICSAB007	Instrumnet Name :	P8
Client Sample ID :	ICSAB007	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:28:49	DataFile Name :	016ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	58643	57937	57920	58166	0.71	cps
Ytterbium	172-1	187	157	173	172	8.73	cps
Ytterbium	172-2	57	50	57	54	7.07	cps
Ytterbium	176-1	2424	2067	2200	2230	8.08	cps
Ytterbium	176-2	317	297	390	334	14.69	cps
Yttrium	89-1	29479321	29122847	29575156	29392442	0.81	cps
Yttrium	89-2	1916307	1912901	1911113	1913440	0.14	cps
Zinc	66-2	17921	17661	17534	17706	1.11	cps
Zirconium	90-1	1407	1370	1423	1400	1.95	cps
Zirconium	91-1	310	400	343	351	12.96	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3729375	3759127	3764656	3751053	0.51	cps
Antimony	121-1	8725973	8871494	8794886	8797451	0.83	cps
Arsenic	75-2	157101	159869	160886	159285	1.23	cps
Barium	135-1	11000313	11082884	10995007	11026068	0.45	cps
Barium	137-1	19070190	18906951	18877411	18951517	0.55	cps
Beryllium	9-1	3132364	3166048	3166721	3155044	0.62	cps
Bismuth	209-1	12303195	12345314	12325613	12324707	0.17	cps
Bismuth	209-2	4487435	4475431	4525104	4495990	0.58	cps
Bromine	81-1	5091	5211	5254	5185	1.63	cps
Cadmium	108-1	168531	170190	170082	169601	0.55	cps
Cadmium	106-1	249949	247280	249948	249059	0.62	cps
Cadmium	111-1	2216333	2167367	2156174	2179958	1.47	cps
Calcium	43-1	14838654	15032688	14919810	14930384	0.65	cps
Calcium	44-1	242008463	240393203	239915370	240772345	0.46	cps
Carbon	12-1	6153029	5902025	5867691	5974249	2.61	cps
Carbon	12-2	43795	42498	42347	42880	1.86	cps
Chlorine	35-1	5291099	4857806	4635508	4928138	6.77	cps
Chlorine	35-2	15175	13586	12896	13886	8.42	cps
Chromium	52-2	1905622	1895620	1866999	1889414	1.06	cps
Cobalt	59-2	3424240	3441320	3432136	3432566	0.25	cps
Copper	63-2	25709191	25794610	25848126	25783976	0.27	cps
Dysprosium	156-1	463	513	560	512	9.44	cps
Dysprosium	156-2	120	137	120	126	7.67	cps
Erbium	164-1	400	510	537	482	15.02	cps
Erbium	164-2	147	163	167	159	6.74	cps
Gadolinium	160-1	493	430	470	464	6.90	cps
Gadolinium	160-2	150	140	140	143	4.03	cps
Holmium	165-1	21270314	20969680	20840566	21026853	1.05	cps
Holmium	165-2	6697565	6781814	6755031	6744803	0.64	cps
Indium	115-1	15812099	16061969	15676277	15850115	1.23	cps
Indium	115-2	1339423	1351954	1353954	1348444	0.58	cps
Iron	54-2	18894072	18760763	18667326	18774053	0.61	cps
Iron	56-2	344509342	348226435	346185288	346307022	0.54	cps
Iron	57-2	8536021	8532754	8677458	8582078	0.96	cps
Krypton	83-1	380	343	380	368	5.76	cps
Lead	206-1	34778447	35223405	35338317	35113390	0.84	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29778961	30180385	30260137	30073161	0.86	cps
Lead	208-1	138345965	140161275	140088816	139532019	0.74	cps
Lithium	6-1	7977107	8151220	8157052	8095126	1.26	cps
Magnesium	24-2	65803504	65743604	66465174	66004094	0.61	cps
Manganese	55-2	7574067	7642729	7554445	7590414	0.61	cps
Molybdenum	94-1	31078652	31718732	31621276	31472887	1.10	cps
Molybdenum	95-1	46114499	45630956	45223041	45656165	0.98	cps
Molybdenum	96-1	50859841	49855634	49980241	50231905	1.09	cps
Molybdenum	97-1	28777527	27795109	28233489	28268708	1.74	cps
Molybdenum	98-1	74129419	73157114	73609332	73631955	0.66	cps
Neodymium	150-1	907	877	870	884	2.21	cps
Neodymium	150-2	50	57	67	58	14.52	cps
Nickel	60-2	872794	872707	879482	874994	0.44	cps
Phosphorus	31-2	34237	33449	34040	33909	1.21	cps
Potassium	39-2	17731372	17841096	17744441	17772303	0.34	cps
Rhodium	103-1	14491788	14211186	14188454	14297142	1.18	cps
Rhodium	103-2	5253572	5258175	5293268	5268339	0.41	cps
Scandium	45-1	11253017	11356284	11320468	11309923	0.46	cps
Scandium	45-2	201806	203352	206799	203986	1.25	cps
Selenium	82-1	127355	126013	126457	126608	0.54	cps
Selenium	77-2	2014	1980	2020	2005	1.07	cps
Selenium	78-2	6868	6552	6892	6771	2.81	cps
Silicon	28-1	10804139	10657955	10640555	10700883	0.84	cps
Silver	107-1	10587198	10846434	10751864	10728499	1.22	cps
Silver	109-1	10035201	10185606	10066611	10095806	0.79	cps
Sodium	23-2	134175191	133394595	134569951	134046579	0.45	cps
Strontium	86-1	2903376	3013103	2932622	2949701	1.93	cps
Strontium	88-1	25760723	25458760	24939324	25386269	1.64	cps
Sulfur	34-1	1538459	1556197	1556021	1550225	0.66	cps
Terbium	159-1	21514444	21291270	21558161	21454625	0.67	cps
Terbium	159-2	6482583	6420465	6513971	6472340	0.74	cps
Thallium	203-1	8690159	8536098	8717661	8647973	1.13	cps
Thallium	205-1	20474724	20725991	20624169	20608294	0.61	cps
Tin	118-1	7153048	7148274	7101155	7134159	0.40	cps
Titanium	47-1	13928369	13779011	13778732	13828704	0.62	cps
Uranium	238-1	28640752	28768416	29087016	28832062	0.80	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV027	Instrumnet Name :	P8
Client Sample ID :	CCV027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:31:55	DataFile Name :	017CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1497414	1477369	1489358	1488047	0.68	cps
Ytterbium	172-1	520	490	603	538	10.92	cps
Ytterbium	172-2	183	207	173	188	9.11	cps
Ytterbium	176-1	44170	43331	43160	43554	1.24	cps
Ytterbium	176-2	13030	13387	13327	13248	1.44	cps
Yttrium	89-1	28232584	28609257	28166964	28336268	0.84	cps
Yttrium	89-2	1868561	1885859	1899051	1884491	0.81	cps
Zinc	66-2	2765509	2763249	2840230	2789663	1.57	cps
Zirconium	90-1	15816303	16058454	15805159	15893305	0.90	cps
Zirconium	91-1	3612288	3641420	3554962	3602890	1.22	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	153	197	187	179	12.68	cps
Antimony	121-1	2497	2167	2094	2252	9.54	cps
Arsenic	75-2	3	13	7	8	65.47	cps
Barium	135-1	810	720	787	772	6.05	cps
Barium	137-1	1577	1337	1377	1430	8.99	cps
Beryllium	9-1	1636	1496	1437	1523	6.70	cps
Bismuth	209-1	14496511	14193667	14399589	14363256	1.08	cps
Bismuth	209-2	5289314	5243012	5363567	5298631	1.15	cps
Bromine	81-1	4911	4804	4881	4865	1.13	cps
Cadmium	108-1	60	43	37	47	25.75	cps
Cadmium	106-1	9116	9530	9450	9365	2.34	cps
Cadmium	111-1	6600	6804	6779	6728	1.66	cps
Calcium	43-1	997	1080	930	1002	7.50	cps
Calcium	44-1	37907	35167	35144	36072	4.40	cps
Carbon	12-1	4933881	4615769	4352500	4634050	6.28	cps
Carbon	12-2	27265	27042	26390	26899	1.69	cps
Chlorine	35-1	2316282	2183343	2089073	2196233	5.20	cps
Chlorine	35-2	6502	6502	6628	6544	1.12	cps
Chromium	52-2	3267	3564	3614	3482	5.38	cps
Cobalt	59-2	320	317	270	302	9.25	cps
Copper	63-2	4587	4374	4157	4373	4.92	cps
Dysprosium	156-1	23	17	33	24	34.31	cps
Dysprosium	156-2	10	7	7	8	24.71	cps
Erbium	164-1	110	117	130	119	8.57	cps
Erbium	164-2	23	30	47	33	36.07	cps
Gadolinium	160-1	143	130	107	127	14.65	cps
Gadolinium	160-2	23	20	13	19	26.96	cps
Holmium	165-1	22789795	22281256	22349597	22473549	1.23	cps
Holmium	165-2	7086004	7162182	7128064	7125417	0.54	cps
Indium	115-1	18031870	17758628	17904073	17898190	0.76	cps
Indium	115-2	1510890	1614274	1601725	1575630	3.58	cps
Iron	54-2	1593	1817	1737	1716	6.60	cps
Iron	56-2	26716	26488	26645	26616	0.44	cps
Iron	57-2	713	607	660	660	8.08	cps
Krypton	83-1	377	363	310	350	10.08	cps
Lead	206-1	5668	4954	4874	5166	8.46	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4644	4754	4444	4614	3.41	cps
Lead	208-1	22445	20773	20043	21087	5.84	cps
Lithium	6-1	9250635	9440764	8973147	9221515	2.55	cps
Magnesium	24-2	4254	4114	4094	4154	2.10	cps
Manganese	55-2	633	607	530	590	9.09	cps
Molybdenum	94-1	2300	2260	1797	2119	13.20	cps
Molybdenum	95-1	2737	2484	2380	2534	7.24	cps
Molybdenum	96-1	3057	3074	2514	2881	11.06	cps
Molybdenum	97-1	1777	1603	1443	1608	10.37	cps
Molybdenum	98-1	4257	4034	3581	3957	8.72	cps
Neodymium	150-1	30	13	40	28	48.51	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1587	1463	1547	1532	4.11	cps
Phosphorus	31-2	107	90	83	93	12.88	cps
Potassium	39-2	13213	13523	12829	13188	2.64	cps
Rhodium	103-1	16995450	17072143	16743871	16937154	1.01	cps
Rhodium	103-2	6152691	6120486	6125544	6132907	0.28	cps
Scandium	45-1	12404804	12193792	12149301	12249299	1.11	cps
Scandium	45-2	212561	214858	211533	212984	0.80	cps
Selenium	82-1	-67	13	-17	-23	-173.22	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	20	17	13	17	20.01	cps
Silicon	28-1	610598	602901	601217	604905	0.83	cps
Silver	107-1	1593	1383	1260	1412	11.93	cps
Silver	109-1	1577	1197	1150	1308	17.90	cps
Sodium	23-2	70797	70047	68419	69755	1.74	cps
Strontium	86-1	700	670	710	693	3.00	cps
Strontium	88-1	1590	1657	1430	1559	7.47	cps
Sulfur	34-1	754021	753203	761345	756190	0.59	cps
Terbium	159-1	23331660	23004334	23314000	23216665	0.79	cps
Terbium	159-2	6887555	6843065	6913085	6881235	0.51	cps
Thallium	203-1	1924	1597	1530	1683	12.51	cps
Thallium	205-1	4578	4024	3754	4118	10.19	cps
Tin	118-1	3150	3087	3027	3088	2.00	cps
Titanium	47-1	840	760	633	744	14.00	cps
Uranium	238-1	1070	1170	863	1035	15.12	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB027	Instrumnet Name :	P8
Client Sample ID :	CCB027	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:34:42	DataFile Name :	018CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	50	57	23	43	40.71	cps
Ytterbium	172-1	123	130	97	117	15.12	cps
Ytterbium	172-2	50	10	70	43	70.50	cps
Ytterbium	176-1	2260	2290	2307	2286	1.03	cps
Ytterbium	176-2	307	327	360	331	8.14	cps
Yttrium	89-1	31338257	30748270	31041671	31042733	0.95	cps
Yttrium	89-2	2000565	2008100	2033453	2014039	0.86	cps
Zinc	66-2	313	337	360	337	6.93	cps
Zirconium	90-1	1873	1780	1550	1735	9.59	cps
Zirconium	91-1	417	400	393	403	2.98	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2594	2774	2684	2684	3.35	cps
Antimony	121-1	1030	893	907	943	7.99	cps
Arsenic	75-2	143	140	130	138	5.04	cps
Barium	135-1	390806	389514	392559	390960	0.39	cps
Barium	137-1	670995	681211	673285	675163	0.79	cps
Beryllium	9-1	3164	3006	3100	3090	2.56	cps
Bismuth	209-1	13678549	14164429	14023942	13955640	1.79	cps
Bismuth	209-2	5179088	5170514	5101879	5150493	0.82	cps
Bromine	81-1	95936	111979	120922	109612	11.55	cps
Cadmium	108-1	110	97	147	118	21.98	cps
Cadmium	106-1	9273	9383	9080	9245	1.66	cps
Cadmium	111-1	7618	7527	7357	7501	1.77	cps
Calcium	43-1	323849	329840	325767	326485	0.94	cps
Calcium	44-1	5583810	5648406	5428186	5553467	2.04	cps
Carbon	12-1	8220296	9007915	9681024	8969745	8.15	cps
Carbon	12-2	68656	69081	70093	69277	1.07	cps
Chlorine	35-1	3482713	3665093	3771032	3639613	4.01	cps
Chlorine	35-2	13770	13783	13780	13778	0.05	cps
Chromium	52-2	3174	3494	3284	3317	4.90	cps
Cobalt	59-2	26161	25466	25663	25763	1.39	cps
Copper	63-2	6578	6572	6508	6553	0.59	cps
Dysprosium	156-1	1483	1563	1557	1535	2.89	cps
Dysprosium	156-2	603	590	510	568	8.89	cps
Erbium	164-1	1497	1413	1447	1452	2.89	cps
Erbium	164-2	507	473	513	498	4.30	cps
Gadolinium	160-1	1703	1840	1640	1728	5.92	cps
Gadolinium	160-2	647	710	597	651	8.72	cps
Holmium	165-1	22168379	22199821	22381481	22249894	0.52	cps
Holmium	165-2	7017456	7153666	7007925	7059683	1.15	cps
Indium	115-1	17444443	17417972	17570434	17477616	0.47	cps
Indium	115-2	1486304	1484199	1494410	1488305	0.36	cps
Iron	54-2	32560	33753	33780	33365	2.09	cps
Iron	56-2	603366	608784	609660	607270	0.56	cps
Iron	57-2	15468	15192	14691	15117	2.61	cps
Krypton	83-1	407	233	333	324	26.82	cps
Lead	206-1	4461	4447	4301	4403	2.02	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3664	3661	3454	3593	3.35	cps
Lead	208-1	17435	16971	16244	16883	3.55	cps
Lithium	6-1	9020556	8948513	8914865	8961312	0.60	cps
Magnesium	24-2	454492	455595	452575	454221	0.34	cps
Manganese	55-2	329563	333840	336455	333286	1.04	cps
Molybdenum	94-1	1037	1147	1003	1062	7.06	cps
Molybdenum	95-1	937	867	730	844	12.45	cps
Molybdenum	96-1	1223	1080	897	1067	15.35	cps
Molybdenum	97-1	490	517	460	489	5.80	cps
Molybdenum	98-1	1350	1253	1147	1250	8.14	cps
Neodymium	150-1	1633	1557	1567	1586	2.63	cps
Neodymium	150-2	373	327	300	333	11.13	cps
Nickel	60-2	18078	17825	18405	18103	1.61	cps
Phosphorus	31-2	173	187	190	183	4.81	cps
Potassium	39-2	129746	130123	130476	130115	0.28	cps
Rhodium	103-1	16140887	16233083	16095319	16156429	0.43	cps
Rhodium	103-2	5906847	5965936	5858381	5910388	0.91	cps
Scandium	45-1	12255292	12125414	12018765	12133157	0.98	cps
Scandium	45-2	211507	209121	210881	210503	0.59	cps
Selenium	82-1	3134	3317	3254	3235	2.88	cps
Selenium	77-2	43	43	60	49	19.69	cps
Selenium	78-2	127	160	157	148	12.42	cps
Silicon	28-1	164749098	165190894	165532758	165157583	0.24	cps
Silver	107-1	607	577	573	586	3.14	cps
Silver	109-1	380	470	410	420	10.91	cps
Sodium	23-2	15208821	15193214	15055492	15152509	0.56	cps
Strontium	86-1	349025	356458	352817	352767	1.05	cps
Strontium	88-1	3249166	3279488	3220180	3249611	0.91	cps
Sulfur	34-1	1491328	1496044	1472318	1486563	0.84	cps
Terbium	159-1	22615283	22693671	22922485	22743813	0.70	cps
Terbium	159-2	6838284	6794122	6859270	6830559	0.49	cps
Thallium	203-1	1250	1047	933	1077	14.90	cps
Thallium	205-1	3007	2687	2537	2744	8.75	cps
Tin	118-1	5211	5184	4878	5091	3.64	cps
Titanium	47-1	2950	3000	3080	3010	2.18	cps
Uranium	238-1	1270	1143	1110	1175	7.19	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1255-08A	Instrumnet Name :	P8
Client Sample ID :	MDCZN8A	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:38:02	DataFile Name :	019AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	757	690	597	681	11.80	cps
Ytterbium	172-1	533	617	547	566	7.92	cps
Ytterbium	172-2	213	227	273	238	13.25	cps
Ytterbium	176-1	2544	2507	2560	2537	1.08	cps
Ytterbium	176-2	467	387	460	438	10.14	cps
Yttrium	89-1	29931381	30636350	30132857	30233530	1.20	cps
Yttrium	89-2	1979615	1950038	1994791	1974815	1.15	cps
Zinc	66-2	7035	7285	7315	7212	2.13	cps
Zirconium	90-1	1520	1603	1463	1529	4.61	cps
Zirconium	91-1	317	300	330	316	4.76	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	93	70	117	93	25.00	cps
Antimony	121-1	320	333	363	339	6.55	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	533	467	567	522	9.75	cps
Barium	137-1	753	860	653	756	13.68	cps
Beryllium	9-1	770	811	744	775	4.39	cps
Bismuth	209-1	14388371	14345881	14615460	14449904	1.00	cps
Bismuth	209-2	5271416	5237178	5354204	5287599	1.14	cps
Bromine	81-1	18005	15959	14264	16076	11.65	cps
Cadmium	108-1	23	33	23	27	21.65	cps
Cadmium	106-1	9617	9603	9653	9625	0.27	cps
Cadmium	111-1	6792	6729	6781	6767	0.50	cps
Calcium	43-1	653	557	640	617	8.50	cps
Calcium	44-1	28802	29270	28061	28711	2.12	cps
Carbon	12-1	5506540	5044648	4732483	5094557	7.64	cps
Carbon	12-2	28868	28511	27780	28386	1.96	cps
Chlorine	35-1	1050990	1007005	963276	1007090	4.35	cps
Chlorine	35-2	3297	3377	3254	3309	1.89	cps
Chromium	52-2	2407	2390	2377	2391	0.63	cps
Cobalt	59-2	180	217	200	199	9.23	cps
Copper	63-2	3054	3274	3317	3215	4.39	cps
Dysprosium	156-1	17	27	27	23	24.74	cps
Dysprosium	156-2	0	0	7	2	173.21	cps
Erbium	164-1	127	137	113	126	9.32	cps
Erbium	164-2	27	67	30	41	53.99	cps
Gadolinium	160-1	120	167	120	136	19.88	cps
Gadolinium	160-2	17	17	33	22	43.28	cps
Holmium	165-1	22578989	22476838	22538106	22531311	0.23	cps
Holmium	165-2	7158487	7100727	7184015	7147743	0.60	cps
Indium	115-1	17985698	18199728	17919276	18034901	0.81	cps
Indium	115-2	1502060	1505972	1621997	1543343	4.42	cps
Iron	54-2	1217	1103	1110	1143	5.56	cps
Iron	56-2	16763	16523	16416	16568	1.07	cps
Iron	57-2	347	427	430	401	11.76	cps
Krypton	83-1	280	323	270	291	9.74	cps
Lead	206-1	2864	2837	2720	2807	2.72	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2604	2590	2480	2558	2.65	cps
Lead	208-1	11542	11529	11135	11402	2.03	cps
Lithium	6-1	9082270	9090867	8791333	8988157	1.90	cps
Magnesium	24-2	3864	3847	3937	3883	1.23	cps
Manganese	55-2	350	360	357	356	1.43	cps
Molybdenum	94-1	797	753	873	808	7.52	cps
Molybdenum	95-1	790	767	710	756	5.44	cps
Molybdenum	96-1	1040	940	943	974	5.83	cps
Molybdenum	97-1	580	510	503	531	8.00	cps
Molybdenum	98-1	1270	1197	1200	1222	3.39	cps
Neodymium	150-1	20	17	17	18	10.81	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	1453	1437	1457	1449	0.74	cps
Phosphorus	31-2	113	103	90	102	11.45	cps
Potassium	39-2	11431	11685	11742	11619	1.42	cps
Rhodium	103-1	16827516	16863143	16681150	16790603	0.57	cps
Rhodium	103-2	6128660	6116653	6116548	6120620	0.11	cps
Scandium	45-1	12156094	12220514	12179266	12185291	0.27	cps
Scandium	45-2	210871	211274	213831	211992	0.76	cps
Selenium	82-1	50	57	10	39	64.90	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	17	10	10	66.70	cps
Silicon	28-1	600441	593916	590011	594790	0.89	cps
Silver	107-1	380	450	397	409	8.94	cps
Silver	109-1	253	263	193	237	16.00	cps
Sodium	23-2	59414	58892	58068	58791	1.15	cps
Strontium	86-1	587	620	617	608	3.02	cps
Strontium	88-1	1333	1247	1213	1265	4.90	cps
Sulfur	34-1	753475	755979	759909	756454	0.43	cps
Terbium	159-1	23449650	23087780	23204770	23247400	0.79	cps
Terbium	159-2	6907026	6837061	6888103	6877397	0.53	cps
Thallium	203-1	717	613	733	688	9.45	cps
Thallium	205-1	1693	1740	1840	1758	4.26	cps
Tin	118-1	2697	2667	2694	2686	0.61	cps
Titanium	47-1	357	343	340	347	2.54	cps
Uranium	238-1	100	70	73	81	20.27	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BL	Instrumnet Name :	P8
Client Sample ID :	PBW671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:41:41	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	33	7	16	98.94	cps
Ytterbium	172-1	130	90	140	120	22.05	cps
Ytterbium	172-2	67	23	47	46	47.61	cps
Ytterbium	176-1	2267	2420	2407	2365	3.59	cps
Ytterbium	176-2	313	387	387	362	11.69	cps
Yttrium	89-1	30759455	30695346	30160950	30538584	1.08	cps
Yttrium	89-2	1979673	1989776	2001109	1990186	0.54	cps
Zinc	66-2	267	263	233	254	7.21	cps
Zirconium	90-1	1013	1070	1030	1038	2.81	cps
Zirconium	91-1	190	223	213	209	8.19	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3107	3247	3387	3247	4.31	cps
Antimony	121-1	78845	78996	80210	79351	0.94	cps
Arsenic	75-2	667	763	743	724	7.04	cps
Barium	135-1	95376	95903	95084	95454	0.43	cps
Barium	137-1	164044	164014	163637	163898	0.14	cps
Beryllium	9-1	15133	14864	15068	15022	0.93	cps
Bismuth	209-1	14433226	14157002	14272197	14287475	0.97	cps
Bismuth	209-2	5307429	5218038	5154449	5226639	1.47	cps
Bromine	81-1	8489	8466	8386	8447	0.64	cps
Cadmium	108-1	883	790	830	834	5.61	cps
Cadmium	106-1	10487	10608	10464	10520	0.73	cps
Cadmium	111-1	16653	16622	16911	16729	0.95	cps
Calcium	43-1	65947	64869	66221	65679	1.09	cps
Calcium	44-1	1070982	1069342	1072800	1071042	0.16	cps
Carbon	12-1	4906517	4689782	4537767	4711355	3.93	cps
Carbon	12-2	28615	27933	27679	28076	1.72	cps
Chlorine	35-1	2557961	2740432	2807885	2702093	4.79	cps
Chlorine	35-2	10867	10801	10717	10795	0.70	cps
Chromium	52-2	17561	18382	17941	17961	2.29	cps
Cobalt	59-2	15826	15916	15839	15860	0.31	cps
Copper	63-2	29294	29624	29120	29346	0.87	cps
Dysprosium	156-1	50	43	43	46	8.45	cps
Dysprosium	156-2	0	0	7	2	173.21	cps
Erbium	164-1	117	80	157	118	32.56	cps
Erbium	164-2	23	37	47	36	32.93	cps
Gadolinium	160-1	120	120	117	119	1.62	cps
Gadolinium	160-2	30	47	20	32	41.81	cps
Holmium	165-1	22591497	22452759	22432318	22492191	0.39	cps
Holmium	165-2	6989712	7012377	7030848	7010979	0.29	cps
Indium	115-1	18132769	17833315	17663158	17876414	1.33	cps
Indium	115-2	1488695	1486602	1485627	1486975	0.11	cps
Iron	54-2	68202	66972	67187	67454	0.97	cps
Iron	56-2	1222722	1224034	1224417	1223724	0.07	cps
Iron	57-2	30720	30670	30506	30632	0.36	cps
Krypton	83-1	323	340	307	323	5.16	cps
Lead	206-1	34405	34245	34406	34352	0.27	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29624	30249	29337	29736	1.57	cps
Lead	208-1	136672	136942	137115	136910	0.16	cps
Lithium	6-1	9073496	8803301	9096178	8990991	1.81	cps
Magnesium	24-2	279820	281050	280640	280503	0.22	cps
Manganese	55-2	3570	3671	3527	3589	2.05	cps
Molybdenum	94-1	79146	81018	79623	79929	1.22	cps
Molybdenum	95-1	98687	98197	97143	98009	0.81	cps
Molybdenum	96-1	107727	108143	107650	107840	0.25	cps
Molybdenum	97-1	60310	60401	60337	60349	0.08	cps
Molybdenum	98-1	156929	157699	156501	157043	0.39	cps
Neodymium	150-1	47	30	27	34	31.11	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	5885	5765	5855	5835	1.07	cps
Phosphorus	31-2	257	250	270	259	3.93	cps
Potassium	39-2	160838	160619	161738	161065	0.37	cps
Rhodium	103-1	16830001	16612520	16766863	16736461	0.67	cps
Rhodium	103-2	6087651	6061449	5992523	6047207	0.81	cps
Scandium	45-1	12183813	11943609	12127786	12085069	1.04	cps
Scandium	45-2	211672	209406	207503	209527	1.00	cps
Selenium	82-1	3047	3250	3057	3118	3.68	cps
Selenium	77-2	50	50	77	59	26.15	cps
Selenium	78-2	203	193	123	173	25.15	cps
Silicon	28-1	941898	945707	939749	942451	0.32	cps
Silver	107-1	49067	48070	48970	48702	1.13	cps
Silver	109-1	46568	47361	46732	46887	0.89	cps
Sodium	23-2	625661	624333	620739	623578	0.41	cps
Strontium	86-1	13410	13296	13043	13250	1.42	cps
Strontium	88-1	109374	109767	110419	109853	0.48	cps
Sulfur	34-1	779531	782118	776849	779499	0.34	cps
Terbium	159-1	23583575	23074036	23099312	23252308	1.23	cps
Terbium	159-2	6786129	6801495	6726548	6771391	0.58	cps
Thallium	203-1	39985	39624	39487	39698	0.65	cps
Thallium	205-1	93595	95136	94736	94489	0.85	cps
Tin	118-1	161520	162332	162026	161959	0.25	cps
Titanium	47-1	7675	7876	7609	7720	1.80	cps
Uranium	238-1	117577	119027	119693	118766	0.91	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166671BS	Instrumnet Name :	P8
Client Sample ID :	LCS671	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:45:02	DataFile Name :	021LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	31799	32186	31745	31910	0.75	cps
Ytterbium	172-1	147	123	110	127	14.65	cps
Ytterbium	172-2	23	43	53	40	38.19	cps
Ytterbium	176-1	2530	2614	2567	2570	1.63	cps
Ytterbium	176-2	360	357	430	382	10.83	cps
Yttrium	89-1	30707879	30461701	30533642	30567741	0.41	cps
Yttrium	89-2	1993004	1981647	1944440	1973030	1.29	cps
Zinc	66-2	6608	6828	6288	6575	4.13	cps
Zirconium	90-1	67342	69378	69013	68577	1.58	cps
Zirconium	91-1	14861	15148	15335	15115	1.58	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1080	1023	1013	1039	3.47	cps
Antimony	121-1	703	603	680	662	7.90	cps
Arsenic	75-2	217	230	267	238	10.89	cps
Barium	135-1	39377	38906	38658	38980	0.94	cps
Barium	137-1	67457	68164	67718	67780	0.53	cps
Beryllium	9-1	592	617	674	628	6.63	cps
Bismuth	209-1	13582605	13714766	13694948	13664106	0.52	cps
Bismuth	209-2	4984340	4947499	4912630	4948156	0.72	cps
Bromine	81-1	152732	165075	174362	164056	6.61	cps
Cadmium	108-1	50	53	30	44	28.39	cps
Cadmium	106-1	9704	9367	9307	9459	2.26	cps
Cadmium	111-1	6844	6559	6574	6659	2.41	cps
Calcium	43-1	28398185	28614051	28492092	28501443	0.38	cps
Calcium	44-1	452392767	455232727	451399807	453008433	0.44	cps
Carbon	12-1	9355157	9985012	10485277	9941815	5.70	cps
Carbon	12-2	73469	72772	73948	73397	0.81	cps
Chlorine	35-1	4195442	4662950	4957716	4605369	8.35	cps
Chlorine	35-2	18722	19370	19460	19184	2.10	cps
Chromium	52-2	1047	1060	1137	1081	4.49	cps
Cobalt	59-2	660	587	750	666	12.29	cps
Copper	63-2	3234	3217	3344	3265	2.11	cps
Dysprosium	156-1	233	217	187	212	11.14	cps
Dysprosium	156-2	43	53	37	44	18.87	cps
Erbium	164-1	210	227	257	231	10.23	cps
Erbium	164-2	67	77	83	76	11.10	cps
Gadolinium	160-1	297	290	300	296	1.72	cps
Gadolinium	160-2	100	60	80	80	25.00	cps
Holmium	165-1	23054543	22959865	22809153	22941187	0.54	cps
Holmium	165-2	7216525	7133606	7138556	7162896	0.65	cps
Indium	115-1	17767065	17636883	17589860	17664603	0.52	cps
Indium	115-2	1483249	1477065	1486716	1482344	0.33	cps
Iron	54-2	795786	802646	808199	802211	0.78	cps
Iron	56-2	15573454	15531266	15333738	15479486	0.83	cps
Iron	57-2	369195	369792	369935	369641	0.11	cps
Krypton	83-1	297	370	333	333	11.00	cps
Lead	206-1	6799	5768	5528	6031	11.19	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	5811	4714	4631	5052	13.04	cps
Lead	208-1	26674	22394	21377	23482	11.97	cps
Lithium	6-1	9075322	9176693	8961148	9071054	1.19	cps
Magnesium	24-2	47046621	46798484	46738231	46861112	0.35	cps
Manganese	55-2	115018	116474	115738	115743	0.63	cps
Molybdenum	94-1	9313	9467	9563	9448	1.34	cps
Molybdenum	95-1	14918	15435	14568	14974	2.91	cps
Molybdenum	96-1	16303	15449	16396	16049	3.25	cps
Molybdenum	97-1	9076	9463	9250	9263	2.09	cps
Molybdenum	98-1	23904	23707	24094	23902	0.81	cps
Neodymium	150-1	253	290	220	254	13.76	cps
Neodymium	150-2	43	23	43	37	31.49	cps
Nickel	60-2	1177	1203	1027	1136	8.39	cps
Phosphorus	31-2	170	110	127	136	22.85	cps
Potassium	39-2	646914	648649	654746	650103	0.63	cps
Rhodium	103-1	15789881	15811345	15777039	15792755	0.11	cps
Rhodium	103-2	5827069	5852518	5766334	5815307	0.76	cps
Scandium	45-1	12549642	12583578	12621219	12584813	0.28	cps
Scandium	45-2	218276	218194	220984	219151	0.72	cps
Selenium	82-1	47	53	107	69	47.74	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	13	0	10	8	89.21	cps
Silicon	28-1	147993648	149899664	151259834	149717716	1.10	cps
Silver	107-1	663	593	670	642	6.61	cps
Silver	109-1	383	317	337	346	9.90	cps
Sodium	23-2	26667191	26285230	26250875	26401099	0.88	cps
Strontium	86-1	79247310	78642059	78616547	78835305	0.45	cps
Strontium	88-1	686071190	683276190	685434936	684927439	0.21	cps
Sulfur	34-1	48414636	48775459	48344298	48511464	0.48	cps
Terbium	159-1	23363265	23607384	23347291	23439314	0.62	cps
Terbium	159-2	6857828	6879434	6966991	6901418	0.84	cps
Thallium	203-1	1020	1000	943	988	4.03	cps
Thallium	205-1	2547	2360	2184	2364	7.69	cps
Tin	118-1	3520	3611	3327	3486	4.15	cps
Titanium	47-1	3601	3617	3494	3570	1.87	cps
Uranium	238-1	52461	51430	51266	51719	1.25	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01	Instrumnet Name :	P8
Client Sample ID :	ME2993	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:48:25	DataFile Name :	022AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	137	160	167	154	10.20	cps
Ytterbium	172-1	160	167	137	154	10.20	cps
Ytterbium	172-2	47	53	50	50	6.66	cps
Ytterbium	176-1	2474	2450	2440	2455	0.70	cps
Ytterbium	176-2	343	317	373	344	8.23	cps
Yttrium	89-1	31554012	31604486	31350170	31502889	0.43	cps
Yttrium	89-2	2037199	2031153	2003606	2023986	0.88	cps
Zinc	66-2	897	843	873	871	3.07	cps
Zirconium	90-1	2354	2317	2527	2399	4.68	cps
Zirconium	91-1	603	470	500	524	13.34	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1193	1063	963	1073	10.75	cps
Antimony	121-1	597	620	570	596	4.20	cps
Arsenic	75-2	190	193	253	212	16.80	cps
Barium	135-1	39203	40273	39765	39747	1.35	cps
Barium	137-1	68857	69290	70164	69437	0.96	cps
Beryllium	9-1	640	606	627	625	2.73	cps
Bismuth	209-1	13823258	13847532	14059357	13910049	0.93	cps
Bismuth	209-2	5150467	4991988	5020254	5054236	1.67	cps
Bromine	81-1	166057	181927	189146	179043	6.60	cps
Cadmium	108-1	57	50	50	52	7.37	cps
Cadmium	106-1	10120	10097	9927	10048	1.05	cps
Cadmium	111-1	7101	7103	6957	7054	1.19	cps
Calcium	43-1	29694654	29487269	30561548	29914490	1.91	cps
Calcium	44-1	472100486	480770006	485076339	479315611	1.38	cps
Carbon	12-1	10361452	10843967	11247473	10817631	4.10	cps
Carbon	12-2	76260	75804	76541	76202	0.49	cps
Chlorine	35-1	4682565	5251271	5482518	5138784	8.01	cps
Chlorine	35-2	20705	20601	21032	20779	1.08	cps
Chromium	52-2	1503	1473	1530	1502	1.89	cps
Cobalt	59-2	673	673	637	661	3.20	cps
Copper	63-2	3387	3417	3477	3427	1.34	cps
Dysprosium	156-1	193	150	167	170	12.86	cps
Dysprosium	156-2	47	47	43	46	4.23	cps
Erbium	164-1	227	257	237	240	6.36	cps
Erbium	164-2	57	90	53	67	30.41	cps
Gadolinium	160-1	277	290	243	270	8.90	cps
Gadolinium	160-2	73	73	83	77	7.53	cps
Holmium	165-1	23388841	23949136	23340962	23559647	1.44	cps
Holmium	165-2	7561944	7317953	7233353	7371083	2.31	cps
Indium	115-1	18093638	18611222	18648886	18451249	1.68	cps
Indium	115-2	1633528	1606484	1503702	1581238	4.33	cps
Iron	54-2	844827	819841	819744	828137	1.75	cps
Iron	56-2	16487964	16134301	15876215	16166160	1.90	cps
Iron	57-2	388086	380644	373872	380867	1.87	cps
Krypton	83-1	357	307	353	339	8.25	cps
Lead	206-1	5154	5138	5358	5217	2.35	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4274	4301	4127	4234	2.21	cps
Lead	208-1	20136	20046	20226	20136	0.45	cps
Lithium	6-1	9212699	9417716	9343096	9324504	1.11	cps
Magnesium	24-2	49680571	48869296	48758463	49102776	1.03	cps
Manganese	55-2	118322	114239	114696	115752	1.93	cps
Molybdenum	94-1	9160	9216	9637	9338	2.79	cps
Molybdenum	95-1	15112	15245	15035	15131	0.70	cps
Molybdenum	96-1	16153	16884	16366	16468	2.28	cps
Molybdenum	97-1	9297	9323	9597	9405	1.77	cps
Molybdenum	98-1	24418	24108	24872	24466	1.57	cps
Neodymium	150-1	227	240	230	232	2.99	cps
Neodymium	150-2	37	43	60	47	25.75	cps
Nickel	60-2	1137	1270	1387	1265	9.89	cps
Phosphorus	31-2	153	130	117	133	13.92	cps
Potassium	39-2	693566	672476	667746	677929	2.03	cps
Rhodium	103-1	16537025	16465389	16622739	16541717	0.48	cps
Rhodium	103-2	6064302	5875552	5851310	5930388	1.97	cps
Scandium	45-1	13053194	13041601	13419176	13171324	1.63	cps
Scandium	45-2	230919	228315	225804	228346	1.12	cps
Selenium	82-1	83	130	60	91	39.12	cps
Selenium	77-2	3	0	10	4	114.60	cps
Selenium	78-2	7	10	10	9	21.63	cps
Silicon	28-1	155020758	157691261	156512894	156408304	0.86	cps
Silver	107-1	527	547	573	549	4.27	cps
Silver	109-1	267	253	313	278	11.34	cps
Sodium	23-2	27769268	26727553	27119281	27205367	1.93	cps
Strontium	86-1	82308929	83172767	82973370	82818355	0.55	cps
Strontium	88-1	706339456	711249563	724269403	713952807	1.30	cps
Sulfur	34-1	50072549	50694514	51630183	50799082	1.54	cps
Terbium	159-1	24004810	24343090	24182709	24176870	0.70	cps
Terbium	159-2	7374372	7013361	7095516	7161083	2.64	cps
Thallium	203-1	873	840	763	826	6.83	cps
Thallium	205-1	2114	2077	1960	2050	3.91	cps
Tin	118-1	3837	3781	3717	3778	1.59	cps
Titanium	47-1	3464	3671	4158	3764	9.46	cps
Uranium	238-1	52863	53820	53633	53439	0.95	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-02	Instrumnet Name :	P8
Client Sample ID :	ME2993D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:51:40	DataFile Name :	023AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	133	147	200	160	22.05	cps
Ytterbium	172-1	173	177	190	180	4.90	cps
Ytterbium	172-2	63	57	43	54	18.71	cps
Ytterbium	176-1	2334	2544	2360	2412	4.74	cps
Ytterbium	176-2	313	343	357	338	6.57	cps
Yttrium	89-1	32272451	32465854	32790709	32509671	0.81	cps
Yttrium	89-2	2135596	2077393	2093913	2102300	1.43	cps
Zinc	66-2	777	833	860	823	5.17	cps
Zirconium	90-1	2350	2224	2287	2287	2.77	cps
Zirconium	91-1	533	460	487	493	7.52	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	300	310	320	310	3.23	cps
Antimony	121-1	237	160	260	219	23.90	cps
Arsenic	75-2	37	30	57	41	33.76	cps
Barium	135-1	8333	8206	8383	8307	1.10	cps
Barium	137-1	14168	14248	14258	14224	0.35	cps
Beryllium	9-1	631	569	649	616	6.83	cps
Bismuth	209-1	14387276	14294323	14202697	14294765	0.65	cps
Bismuth	209-2	5226731	5180547	5159436	5188905	0.66	cps
Bromine	81-1	50437	50577	49754	50256	0.88	cps
Cadmium	108-1	43	17	43	34	44.69	cps
Cadmium	106-1	9850	9924	9914	9896	0.40	cps
Cadmium	111-1	6912	6985	6949	6949	0.53	cps
Calcium	43-1	5957736	6027535	5908455	5964575	1.00	cps
Calcium	44-1	94663409	95669709	93263309	94532142	1.28	cps
Carbon	12-1	6600954	6352081	6322801	6425279	2.38	cps
Carbon	12-2	38958	39433	38457	38949	1.25	cps
Chlorine	35-1	1734056	1736909	1707409	1726125	0.94	cps
Chlorine	35-2	5738	5801	5808	5782	0.67	cps
Chromium	52-2	2214	2294	2074	2194	5.08	cps
Cobalt	59-2	257	233	240	243	4.94	cps
Copper	63-2	3377	3194	3280	3284	2.79	cps
Dysprosium	156-1	80	53	67	67	20.00	cps
Dysprosium	156-2	13	13	30	19	50.96	cps
Erbium	164-1	147	130	130	136	7.10	cps
Erbium	164-2	27	33	37	32	15.80	cps
Gadolinium	160-1	157	170	150	159	6.41	cps
Gadolinium	160-2	43	17	33	31	43.29	cps
Holmium	165-1	22971216	23298922	23081908	23117349	0.72	cps
Holmium	165-2	7331677	7306389	7200880	7279649	0.95	cps
Indium	115-1	18157094	18510008	18251957	18306353	1.00	cps
Indium	115-2	1613144	1612101	1604747	1609997	0.28	cps
Iron	54-2	167139	166312	168119	167190	0.54	cps
Iron	56-2	3305715	3261440	3250287	3272481	0.90	cps
Iron	57-2	75917	78018	77047	76994	1.37	cps
Krypton	83-1	347	307	393	349	12.43	cps
Lead	206-1	3594	3651	3637	3627	0.82	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3154	3084	3154	3130	1.29	cps
Lead	208-1	14367	14503	14323	14398	0.65	cps
Lithium	6-1	9461485	9534394	9522082	9505987	0.41	cps
Magnesium	24-2	9730037	9925880	9822319	9826079	1.00	cps
Manganese	55-2	24174	23883	24237	24098	0.78	cps
Molybdenum	94-1	2527	2387	2574	2496	3.89	cps
Molybdenum	95-1	3781	3691	3827	3766	1.85	cps
Molybdenum	96-1	3927	3947	4041	3972	1.52	cps
Molybdenum	97-1	2330	2450	2334	2371	2.88	cps
Molybdenum	98-1	5808	5608	5524	5647	2.58	cps
Neodymium	150-1	63	57	67	62	8.18	cps
Neodymium	150-2	7	20	3	10	88.20	cps
Nickel	60-2	1543	1490	1623	1552	4.32	cps
Phosphorus	31-2	87	90	110	96	13.21	cps
Potassium	39-2	141536	141300	142825	141887	0.58	cps
Rhodium	103-1	16939715	17017556	16994059	16983777	0.24	cps
Rhodium	103-2	5984209	6192352	6118963	6098508	1.73	cps
Scandium	45-1	12929239	13038962	12769917	12912706	1.05	cps
Scandium	45-2	221055	221768	222593	221806	0.35	cps
Selenium	82-1	57	43	-37	21	239.02	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	3	7	3	4	43.40	cps
Silicon	28-1	31557289	30946039	30987838	31163722	1.10	cps
Silver	107-1	387	440	437	421	7.09	cps
Silver	109-1	237	233	223	231	3.00	cps
Sodium	23-2	5528993	5529971	5349183	5469382	1.90	cps
Strontium	86-1	16514955	16311311	16240047	16355437	0.87	cps
Strontium	88-1	141599918	142669155	140088898	141452657	0.92	cps
Sulfur	34-1	10760080	10671144	10418920	10616715	1.67	cps
Terbium	159-1	23746805	23863868	23874475	23828383	0.30	cps
Terbium	159-2	7002521	7033525	7030149	7022065	0.24	cps
Thallium	203-1	730	737	737	734	0.52	cps
Thallium	205-1	1647	1620	1810	1692	6.08	cps
Tin	118-1	3124	3064	3010	3066	1.85	cps
Titanium	47-1	1173	990	990	1051	10.07	cps
Uranium	238-1	10658	10414	10134	10402	2.52	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-01LX5	Instrumnet Name :	P8
Client Sample ID :	ME2993L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 12:54:57	DataFile Name :	024AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	23	47	50	40	36.33	cps
Ytterbium	172-1	117	97	110	108	9.45	cps
Ytterbium	172-2	57	33	40	43	27.74	cps
Ytterbium	176-1	2340	2480	2520	2447	3.86	cps
Ytterbium	176-2	287	353	377	339	13.78	cps
Yttrium	89-1	31628274	31746440	31868610	31747775	0.38	cps
Yttrium	89-2	2003556	2053715	2058623	2038631	1.49	cps
Zinc	66-2	470	400	447	439	8.12	cps
Zirconium	90-1	1323	1327	1260	1303	2.88	cps
Zirconium	91-1	260	287	240	262	8.93	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	149000	151001	151964	150655	1.00	cps
Antimony	121-1	2106125	2100608	2104620	2103784	0.14	cps
Arsenic	75-2	15152	15212	15001	15122	0.72	cps
Barium	135-1	9715242	9889492	9684534	9763089	1.13	cps
Barium	137-1	16598249	16934461	16706885	16746531	1.02	cps
Beryllium	9-1	341574	340084	340967	340875	0.22	cps
Bismuth	209-1	13964546	14018997	13860178	13947907	0.58	cps
Bismuth	209-2	5056266	5099789	5171460	5109172	1.14	cps
Bromine	81-1	169068	191432	199298	186599	8.41	cps
Cadmium	108-1	15048	15465	15515	15343	1.67	cps
Cadmium	106-1	31359	30961	31723	31348	1.22	cps
Cadmium	111-1	243106	242852	243082	243014	0.06	cps
Calcium	43-1	29219497	29055896	29443072	29239488	0.66	cps
Calcium	44-1	466927500	459976166	466165713	464356460	0.82	cps
Carbon	12-1	9523996	10204581	10497831	10075469	4.96	cps
Carbon	12-2	73040	74018	74146	73735	0.82	cps
Chlorine	35-1	52832488	56891376	59457842	56393902	5.92	cps
Chlorine	35-2	228689	233538	235520	232582	1.51	cps
Chromium	52-2	798669	803067	808282	803339	0.60	cps
Cobalt	59-2	3863034	3929091	3955834	3915986	1.22	cps
Copper	63-2	1425405	1429211	1443290	1432635	0.66	cps
Dysprosium	156-1	247	287	317	283	12.39	cps
Dysprosium	156-2	50	73	53	59	21.43	cps
Erbium	164-1	237	210	300	249	18.58	cps
Erbium	164-2	67	47	43	52	24.17	cps
Gadolinium	160-1	327	277	257	287	12.58	cps
Gadolinium	160-2	83	77	77	79	4.87	cps
Holmium	165-1	23381330	23562732	23569858	23504640	0.45	cps
Holmium	165-2	7416129	7427951	7386353	7410144	0.29	cps
Indium	115-1	18366509	18490285	18303204	18386666	0.52	cps
Indium	115-2	1640422	1644331	1646210	1643654	0.18	cps
Iron	54-2	1009622	1020104	1027235	1018987	0.87	cps
Iron	56-2	19092056	19153172	19219068	19154765	0.33	cps
Iron	57-2	452309	457342	455682	455111	0.56	cps
Krypton	83-1	357	370	297	341	11.45	cps
Lead	206-1	308872	311644	312687	311068	0.63	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	265714	263884	264403	264667	0.36	cps
Lead	208-1	1228733	1231518	1231750	1230667	0.14	cps
Lithium	6-1	9494287	9269050	9666993	9476777	2.11	cps
Magnesium	24-2	48994156	48559521	49222553	48925410	0.69	cps
Manganese	55-2	901272	909779	925800	912284	1.37	cps
Molybdenum	94-1	9617	9433	9580	9543	1.02	cps
Molybdenum	95-1	14921	15269	15299	15163	1.38	cps
Molybdenum	96-1	16490	16420	16463	16458	0.21	cps
Molybdenum	97-1	9307	9040	9213	9186	1.47	cps
Molybdenum	98-1	24011	24685	24442	24379	1.40	cps
Neodymium	150-1	837	793	830	820	2.85	cps
Neodymium	150-2	43	50	93	62	43.63	cps
Nickel	60-2	1004155	1006325	1013228	1007903	0.47	cps
Phosphorus	31-2	123	147	133	134	8.71	cps
Potassium	39-2	668358	677227	682155	675913	1.03	cps
Rhodium	103-1	16536243	16261845	16581394	16459827	1.05	cps
Rhodium	103-2	6020615	5982774	6059804	6021064	0.64	cps
Scandium	45-1	12880229	13133458	13159464	13057717	1.18	cps
Scandium	45-2	228921	230713	233626	231087	1.03	cps
Selenium	82-1	6668	6445	6512	6542	1.75	cps
Selenium	77-2	110	117	123	117	5.72	cps
Selenium	78-2	393	300	320	338	14.55	cps
Silicon	28-1	150708591	149338964	149483808	149843788	0.50	cps
Silver	107-1	1064061	1072464	1084346	1073624	0.95	cps
Silver	109-1	1025903	1040774	1051712	1039463	1.25	cps
Sodium	23-2	27561743	27535045	27430565	27509118	0.25	cps
Strontium	86-1	80619404	80193594	80694949	80502649	0.34	cps
Strontium	88-1	694400523	674770257	692470976	687213919	1.57	cps
Sulfur	34-1	48464058	48376794	49432338	48757730	1.20	cps
Terbium	159-1	24473717	24311105	24437578	24407467	0.35	cps
Terbium	159-2	7195244	7153382	7180645	7176424	0.30	cps
Thallium	203-1	918575	926380	935774	926910	0.93	cps
Thallium	205-1	2391068	2388859	2387983	2389303	0.07	cps
Tin	118-1	4184	4377	4161	4241	2.81	cps
Titanium	47-1	3447	3444	3584	3492	2.29	cps
Uranium	238-1	52682	51635	51621	51979	1.17	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-03	Instrumnet Name :	P8
Client Sample ID :	ME2993S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 12:58:09	DataFile Name :	025AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1685010	1687189	1669894	1680698	0.56	cps
Ytterbium	172-1	163	197	167	176	10.46	cps
Ytterbium	172-2	87	53	57	66	28.01	cps
Ytterbium	176-1	2494	2564	2347	2468	4.48	cps
Ytterbium	176-2	313	347	303	321	7.07	cps
Yttrium	89-1	32576030	32134113	32207750	32305965	0.73	cps
Yttrium	89-2	2119682	2127854	2133201	2126913	0.32	cps
Zinc	66-2	295129	296804	297950	296628	0.48	cps
Zirconium	90-1	2894	2784	2620	2766	4.97	cps
Zirconium	91-1	877	797	783	819	6.17	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4497	4531	4237	4422	3.63	cps
Antimony	121-1	8826	8756	8750	8777	0.48	cps
Arsenic	75-2	623	623	617	621	0.62	cps
Barium	135-1	726162	713628	715415	718402	0.94	cps
Barium	137-1	1230306	1226444	1235744	1230832	0.38	cps
Beryllium	9-1	791	785	801	792	1.03	cps
Bismuth	209-1	14093482	13879937	13786182	13919867	1.13	cps
Bismuth	209-2	5146624	4998039	5068803	5071155	1.47	cps
Bromine	81-1	5312636	5616732	5663450	5530940	3.44	cps
Cadmium	108-1	187	213	187	196	7.87	cps
Cadmium	106-1	10184	10314	10301	10266	0.70	cps
Cadmium	111-1	7538	7617	7593	7583	0.53	cps
Calcium	43-1	19166493	19069343	18755838	18997225	1.13	cps
Calcium	44-1	303944575	304640989	296935629	301840398	1.41	cps
Carbon	12-1	114078905	122413722	126026488	120839705	5.07	cps
Carbon	12-2	788168	775318	777855	780447	0.87	cps
Chlorine	35-1	62670526	66454129	67548086	65557580	3.90	cps
Chlorine	35-2	261307	257390	258598	259098	0.77	cps
Chromium	52-2	2870	2834	2667	2790	3.88	cps
Cobalt	59-2	98058	96379	96121	96853	1.09	cps
Copper	63-2	20592	20622	20839	20684	0.65	cps
Dysprosium	156-1	1410	1297	1307	1338	4.69	cps
Dysprosium	156-2	443	303	330	359	20.71	cps
Erbium	164-1	1117	1067	1167	1117	4.48	cps
Erbium	164-2	357	320	423	367	14.29	cps
Gadolinium	160-1	1263	1187	1260	1237	3.50	cps
Gadolinium	160-2	460	447	467	458	2.22	cps
Holmium	165-1	23764777	23946840	24238916	23983511	1.00	cps
Holmium	165-2	7446589	7595452	7552006	7531349	1.02	cps
Indium	115-1	18828712	18846248	18768133	18814364	0.22	cps
Indium	115-2	1718849	1687692	1711841	1706127	0.96	cps
Iron	54-2	250173	249088	247330	248863	0.58	cps
Iron	56-2	4887228	4902077	4851126	4880144	0.54	cps
Iron	57-2	116458	114576	115059	115364	0.85	cps
Krypton	83-1	367	320	367	351	7.67	cps
Lead	206-1	15716	15933	16184	15944	1.47	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	13067	12967	13277	13103	1.21	cps
Lead	208-1	60395	61280	62536	61404	1.75	cps
Lithium	6-1	9841534	9909664	9714308	9821835	1.01	cps
Magnesium	24-2	56245326	55510649	55890711	55882229	0.66	cps
Manganese	55-2	4052903	4068228	3985284	4035472	1.09	cps
Molybdenum	94-1	135529	136539	136273	136114	0.38	cps
Molybdenum	95-1	223829	221587	222824	222747	0.50	cps
Molybdenum	96-1	240836	238537	242692	240689	0.86	cps
Molybdenum	97-1	137701	136689	138432	137607	0.64	cps
Molybdenum	98-1	357217	356218	354475	355970	0.39	cps
Neodymium	150-1	1913	1873	1964	1917	2.35	cps
Neodymium	150-2	413	413	463	430	6.71	cps
Nickel	60-2	31134	31234	30533	30967	1.23	cps
Phosphorus	31-2	490	483	473	482	1.74	cps
Potassium	39-2	1375460	1381667	1391557	1382895	0.59	cps
Rhodium	103-1	16835944	16929149	16590083	16785059	1.04	cps
Rhodium	103-2	6161617	6046904	6074331	6094284	0.98	cps
Scandium	45-1	13673261	13624069	13691984	13663105	0.26	cps
Scandium	45-2	237522	235366	232991	235293	0.96	cps
Selenium	82-1	2147	2250	2260	2219	2.83	cps
Selenium	77-2	7	0	7	4	86.60	cps
Selenium	78-2	3	17	23	14	70.51	cps
Silicon	28-1	129588538	130868111	130458838	130305163	0.50	cps
Silver	107-1	2474	2294	2120	2296	7.70	cps
Silver	109-1	2080	1817	1900	1932	6.97	cps
Sodium	23-2	118325715	119053325	117721882	118366974	0.56	cps
Strontium	86-1	26262965	26037698	26753024	26351229	1.39	cps
Strontium	88-1	228203543	223589357	225959997	225917632	1.02	cps
Sulfur	34-1	15246093	15366677	15114700	15242490	0.83	cps
Terbium	159-1	24525811	24719937	23995853	24413867	1.54	cps
Terbium	159-2	7362401	7356817	7190974	7303397	1.33	cps
Thallium	203-1	2754	3164	3334	3084	9.67	cps
Thallium	205-1	6215	7672	7779	7222	12.10	cps
Tin	118-1	4251	4181	4061	4164	2.31	cps
Titanium	47-1	7088	7385	10236	8237	21.10	cps
Uranium	238-1	2901373	2834284	2824957	2853538	1.46	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-04	Instrumnet Name :	P8
Client Sample ID :	ME29C1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:01:25	DataFile Name :	026AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1960	1840	1937	1912	3.33	cps
Ytterbium	172-1	437	523	497	486	9.14	cps
Ytterbium	172-2	150	207	157	171	18.10	cps
Ytterbium	176-1	2624	2824	2554	2667	5.26	cps
Ytterbium	176-2	387	373	467	409	12.35	cps
Yttrium	89-1	33392540	33463693	33243908	33366714	0.34	cps
Yttrium	89-2	2183087	2178177	2224254	2195173	1.15	cps
Zinc	66-2	4311	4387	4341	4346	0.89	cps
Zirconium	90-1	22165	22625	21817	22202	1.83	cps
Zirconium	91-1	5018	5018	5091	5042	0.84	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1663	1800	1783	1749	4.26	cps
Antimony	121-1	4241	4357	3927	4175	5.33	cps
Arsenic	75-2	163	140	177	160	11.60	cps
Barium	135-1	467834	470497	465059	467797	0.58	cps
Barium	137-1	814917	817834	809756	814169	0.50	cps
Beryllium	9-1	621	650	635	635	2.26	cps
Bismuth	209-1	14703567	14499814	14453806	14552396	0.91	cps
Bismuth	209-2	5296627	5288092	5214076	5266265	0.86	cps
Bromine	81-1	1719246	1855787	1944700	1839911	6.17	cps
Cadmium	108-1	623	567	607	599	4.86	cps
Cadmium	106-1	10751	10241	11008	10666	3.66	cps
Cadmium	111-1	7836	7345	7984	7722	4.33	cps
Calcium	43-1	6708981	6709204	6664715	6694300	0.38	cps
Calcium	44-1	107734985	106010528	106355535	106700350	0.86	cps
Carbon	12-1	13940739	14455679	14950784	14449067	3.50	cps
Carbon	12-2	100131	99598	99950	99893	0.27	cps
Chlorine	35-1	25950372	27013042	27916681	26960032	3.65	cps
Chlorine	35-2	103299	105420	104332	104350	1.02	cps
Chromium	52-2	1327	1457	1500	1428	6.32	cps
Cobalt	59-2	36577	37823	37603	37334	1.78	cps
Copper	63-2	7996	7725	7942	7888	1.81	cps
Dysprosium	156-1	367	350	327	348	5.78	cps
Dysprosium	156-2	97	90	73	87	13.87	cps
Erbium	164-1	380	343	370	364	5.20	cps
Erbium	164-2	147	113	100	120	20.03	cps
Gadolinium	160-1	407	363	473	414	13.37	cps
Gadolinium	160-2	130	103	177	137	27.16	cps
Holmium	165-1	24916055	24266815	24361712	24514861	1.43	cps
Holmium	165-2	7658347	7484271	7561298	7567972	1.15	cps
Indium	115-1	19633066	19522079	18975473	19376873	1.82	cps
Indium	115-2	1690955	1707396	1687922	1695424	0.62	cps
Iron	54-2	498310	498468	495737	497505	0.31	cps
Iron	56-2	9480491	9537863	9532812	9517055	0.33	cps
Iron	57-2	225310	227490	227185	226662	0.52	cps
Krypton	83-1	300	317	280	299	6.14	cps
Lead	206-1	23628	23725	23672	23675	0.20	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19451	19014	19114	19193	1.19	cps
Lead	208-1	91406	90360	90259	90675	0.70	cps
Lithium	6-1	10131145	10183459	10038684	10117763	0.72	cps
Magnesium	24-2	34698659	35543588	34642495	34961581	1.44	cps
Manganese	55-2	1691701	1745300	1672855	1703285	2.21	cps
Molybdenum	94-1	697418	699950	700031	699133	0.21	cps
Molybdenum	95-1	1221457	1225088	1221515	1222686	0.17	cps
Molybdenum	96-1	1311406	1309968	1302266	1307880	0.38	cps
Molybdenum	97-1	770897	758163	754247	761102	1.14	cps
Molybdenum	98-1	2194610	2124626	2089553	2136263	2.50	cps
Neodymium	150-1	503	523	470	499	5.40	cps
Neodymium	150-2	103	100	90	98	7.10	cps
Nickel	60-2	16994	17394	17561	17316	1.68	cps
Phosphorus	31-2	233	243	243	240	2.41	cps
Potassium	39-2	1890037	1843733	1859761	1864511	1.26	cps
Rhodium	103-1	17767497	17208413	17523147	17499686	1.60	cps
Rhodium	103-2	6223788	6252247	6236739	6237591	0.23	cps
Scandium	45-1	13799306	13522809	13587411	13636509	1.06	cps
Scandium	45-2	236871	235086	234295	235417	0.56	cps
Selenium	82-1	763	797	840	800	4.81	cps
Selenium	77-2	3	0	3	2	86.60	cps
Selenium	78-2	3	10	23	12	83.33	cps
Silicon	28-1	57454617	57629112	58495236	57859655	0.96	cps
Silver	107-1	670	723	610	668	8.49	cps
Silver	109-1	527	433	553	504	12.49	cps
Sodium	23-2	48740773	49388039	48673846	48934219	0.81	cps
Strontium	86-1	7973145	8068407	7804593	7948715	1.68	cps
Strontium	88-1	69580224	68123256	68066604	68590028	1.25	cps
Sulfur	34-1	9508370	9520512	9596581	9541821	0.50	cps
Terbium	159-1	25024110	25093738	25309823	25142557	0.59	cps
Terbium	159-2	7387347	7203602	7421107	7337352	1.60	cps
Thallium	203-1	2734	2684	2514	2644	4.36	cps
Thallium	205-1	6375	5965	6148	6163	3.33	cps
Tin	118-1	13357	13343	13150	13283	0.87	cps
Titanium	47-1	3057	3087	2834	2993	4.63	cps
Uranium	238-1	208293	208726	208826	208615	0.14	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-05	Instrumnet Name :	P8
Client Sample ID :	ME29C2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:04:37	DataFile Name :	027AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	337	297	317	317	6.32	cps
Ytterbium	172-1	240	223	283	249	12.44	cps
Ytterbium	172-2	87	83	63	78	16.23	cps
Ytterbium	176-1	2720	2630	2694	2681	1.72	cps
Ytterbium	176-2	367	350	350	356	2.71	cps
Yttrium	89-1	34493457	33816992	33458170	33922873	1.55	cps
Yttrium	89-2	2182022	2173516	2166081	2173873	0.37	cps
Zinc	66-2	1923	2060	1977	1987	3.47	cps
Zirconium	90-1	3524	3294	3390	3403	3.39	cps
Zirconium	91-1	693	770	753	739	5.46	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	433	387	427	416	6.07	cps
Antimony	121-1	3007	2547	2647	2734	8.85	cps
Arsenic	75-2	220	217	223	220	1.52	cps
Barium	135-1	242822	240143	240438	241134	0.61	cps
Barium	137-1	420250	412920	409480	414216	1.33	cps
Beryllium	9-1	639	654	649	647	1.18	cps
Bismuth	209-1	14781237	14267077	14307339	14451884	1.98	cps
Bismuth	209-2	5196415	5137162	5055084	5129554	1.38	cps
Bromine	81-1	265248	268148	267453	266950	0.57	cps
Cadmium	108-1	90	73	70	78	13.78	cps
Cadmium	106-1	10327	10284	10357	10323	0.36	cps
Cadmium	111-1	7723	7674	7678	7692	0.35	cps
Calcium	43-1	12164024	11703291	11850197	11905837	1.98	cps
Calcium	44-1	192158290	189057011	188454304	189889868	1.05	cps
Carbon	12-1	13012148	13639221	13766340	13472570	3.00	cps
Carbon	12-2	90922	91455	91542	91306	0.37	cps
Chlorine	35-1	13370208	14236468	14515136	14040604	4.25	cps
Chlorine	35-2	54679	54616	54616	54637	0.07	cps
Chromium	52-2	1117	1030	1143	1097	5.40	cps
Cobalt	59-2	1397	1410	1450	1419	1.96	cps
Copper	63-2	7582	7842	7555	7660	2.07	cps
Dysprosium	156-1	300	273	257	277	7.90	cps
Dysprosium	156-2	93	93	127	104	18.43	cps
Erbium	164-1	433	400	327	387	14.11	cps
Erbium	164-2	133	107	110	117	12.46	cps
Gadolinium	160-1	370	453	367	397	12.38	cps
Gadolinium	160-2	160	97	147	134	24.83	cps
Holmium	165-1	24031177	23404361	23256239	23563926	1.75	cps
Holmium	165-2	7321038	7358442	7254928	7311469	0.72	cps
Indium	115-1	19024379	18668729	18565273	18752794	1.28	cps
Indium	115-2	1644665	1627276	1502700	1591547	4.87	cps
Iron	54-2	2844	2930	2970	2915	2.22	cps
Iron	56-2	52714	52958	53553	53075	0.81	cps
Iron	57-2	1693	1570	1557	1607	4.69	cps
Krypton	83-1	357	380	367	368	3.18	cps
Lead	206-1	9607	9637	9880	9708	1.55	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8613	7749	7636	7999	6.68	cps
Lead	208-1	38466	36517	36764	37249	2.85	cps
Lithium	6-1	9845394	9654608	9521529	9673844	1.68	cps
Magnesium	24-2	12221254	12125479	12259869	12202201	0.57	cps
Manganese	55-2	26334	25179	25626	25713	2.27	cps
Molybdenum	94-1	11945	11635	11435	11672	2.20	cps
Molybdenum	95-1	17181	16507	15999	16562	3.58	cps
Molybdenum	96-1	18526	17982	17828	18112	2.02	cps
Molybdenum	97-1	10624	10164	10304	10364	2.28	cps
Molybdenum	98-1	27330	26746	26776	26951	1.22	cps
Neodymium	150-1	437	433	387	419	6.67	cps
Neodymium	150-2	97	77	93	89	12.05	cps
Nickel	60-2	3881	3877	3997	3918	1.74	cps
Phosphorus	31-2	167	173	170	170	1.96	cps
Potassium	39-2	319427	322801	323507	321912	0.68	cps
Rhodium	103-1	17059126	17001758	16803220	16954701	0.79	cps
Rhodium	103-2	6033549	6050859	5820050	5968153	2.15	cps
Scandium	45-1	13314478	13155310	13042653	13170814	1.04	cps
Scandium	45-2	225751	225705	221084	224180	1.20	cps
Selenium	82-1	100	120	100	107	10.83	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	7	10	13	10	33.30	cps
Silicon	28-1	63382539	61668897	62329464	62460300	1.38	cps
Silver	107-1	563	470	440	491	13.10	cps
Silver	109-1	357	283	327	322	11.44	cps
Sodium	23-2	51620326	51415176	51690854	51575452	0.28	cps
Strontium	86-1	12855894	12553451	12537126	12648824	1.42	cps
Strontium	88-1	112389078	108126688	106990635	109168801	2.61	cps
Sulfur	34-1	5506060	5358853	5414538	5426484	1.37	cps
Terbium	159-1	24766538	24352501	23961148	24360062	1.65	cps
Terbium	159-2	7107834	7231814	7010076	7116575	1.56	cps
Thallium	203-1	1003	857	910	923	8.04	cps
Thallium	205-1	2467	2254	2014	2245	10.11	cps
Tin	118-1	2580	2607	2624	2604	0.84	cps
Titanium	47-1	1730	1813	1737	1760	2.63	cps
Uranium	238-1	462001	450722	446493	453072	1.77	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-06	Instrumnet Name :	P8
Client Sample ID :	ME29C3	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:07:44	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1130	1013	1143	1096	6.53	cps
Ytterbium	172-1	267	230	243	247	7.52	cps
Ytterbium	172-2	107	93	113	104	9.75	cps
Ytterbium	176-1	2617	2524	2727	2623	3.88	cps
Ytterbium	176-2	380	353	380	371	4.15	cps
Yttrium	89-1	33718260	32168374	31902460	32596365	3.01	cps
Yttrium	89-2	2101665	2075402	2044340	2073802	1.38	cps
Zinc	66-2	993	977	1013	994	1.85	cps
Zirconium	90-1	5818	6008	7582	6469	14.97	cps
Zirconium	91-1	1300	1250	1257	1269	2.14	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	370	397	387	384	3.50	cps
Antimony	121-1	247	190	163	200	21.28	cps
Arsenic	75-2	37	3	23	21	79.49	cps
Barium	135-1	48597	47439	48346	48127	1.27	cps
Barium	137-1	84498	83600	81094	83064	2.12	cps
Beryllium	9-1	611	604	617	611	1.13	cps
Bismuth	209-1	12955204	12899795	12926688	12927229	0.21	cps
Bismuth	209-2	4841413	4751943	4727264	4773540	1.26	cps
Bromine	81-1	236939	274190	291623	267584	10.44	cps
Cadmium	108-1	33	40	30	34	14.78	cps
Cadmium	106-1	10271	9577	9850	9899	3.53	cps
Cadmium	111-1	7219	6749	6948	6972	3.39	cps
Calcium	43-1	29713805	29435863	28907945	29352538	1.39	cps
Calcium	44-1	470423513	464804593	464761446	466663184	0.70	cps
Carbon	12-1	10177085	10808196	11057011	10680764	4.25	cps
Carbon	12-2	73184	74179	74072	73812	0.74	cps
Chlorine	35-1	53617818	57465644	58014989	56366150	4.25	cps
Chlorine	35-2	225233	226343	227234	226270	0.44	cps
Chromium	52-2	897	900	1003	933	6.50	cps
Cobalt	59-2	217	213	200	210	4.20	cps
Copper	63-2	3661	3734	3664	3686	1.12	cps
Dysprosium	156-1	77	113	110	100	20.28	cps
Dysprosium	156-2	23	33	13	23	42.86	cps
Erbium	164-1	197	180	117	164	25.67	cps
Erbium	164-2	30	37	43	37	18.18	cps
Gadolinium	160-1	167	203	193	188	10.09	cps
Gadolinium	160-2	33	50	43	42	19.87	cps
Holmium	165-1	22580991	22054472	22517501	22384321	1.28	cps
Holmium	165-2	7194359	7129339	7036612	7120103	1.11	cps
Indium	115-1	17494492	17011730	16998916	17168380	1.65	cps
Indium	115-2	1464979	1465490	1458779	1463083	0.26	cps
Iron	54-2	2620	2330	2680	2544	7.36	cps
Iron	56-2	45382	45184	45435	45334	0.29	cps
Iron	57-2	1877	2100	1987	1988	5.62	cps
Krypton	83-1	373	337	290	333	12.53	cps
Lead	206-1	2774	2830	2804	2803	1.01	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	2357	2494	2460	2437	2.92	cps
Lead	208-1	10909	11322	11055	11095	1.89	cps
Lithium	6-1	9186959	8853152	9046400	9028837	1.86	cps
Magnesium	24-2	36727941	36415054	35537752	36226916	1.70	cps
Manganese	55-2	34051	34221	33837	34036	0.57	cps
Molybdenum	94-1	1120	1013	1187	1107	7.90	cps
Molybdenum	95-1	430	443	423	432	2.36	cps
Molybdenum	96-1	593	510	623	576	10.20	cps
Molybdenum	97-1	230	303	243	259	15.09	cps
Molybdenum	98-1	573	577	580	577	0.58	cps
Neodymium	150-1	103	100	67	90	22.53	cps
Neodymium	150-2	13	10	20	14	35.26	cps
Nickel	60-2	1030	1123	893	1016	11.39	cps
Phosphorus	31-2	117	110	133	120	10.02	cps
Potassium	39-2	650746	644999	641611	645785	0.72	cps
Rhodium	103-1	15539015	14919086	15361679	15273260	2.09	cps
Rhodium	103-2	5627380	5717011	5625857	5656749	0.92	cps
Scandium	45-1	12548070	12256036	12364019	12389375	1.19	cps
Scandium	45-2	220004	221559	220289	220617	0.38	cps
Selenium	82-1	103	60	317	160	85.87	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	7	13	10	33.30	cps
Silicon	28-1	112427685	110872062	111369848	111556532	0.71	cps
Silver	107-1	820	1030	1167	1006	17.37	cps
Silver	109-1	503	713	890	702	27.57	cps
Sodium	23-2	136392625	136285328	132410881	135029611	1.68	cps
Strontium	86-1	97030832	96448465	96219075	96566124	0.43	cps
Strontium	88-1	848473321	825304654	829820788	834532921	1.47	cps
Sulfur	34-1	36575774	36367912	35516765	36153484	1.55	cps
Terbium	159-1	23364227	22507523	22927199	22932983	1.87	cps
Terbium	159-2	6931954	6790947	6794177	6839026	1.18	cps
Thallium	203-1	660	800	877	779	14.11	cps
Thallium	205-1	1687	1783	2107	1859	11.83	cps
Tin	118-1	2360	2237	2267	2288	2.81	cps
Titanium	47-1	2480	2394	2537	2470	2.92	cps
Uranium	238-1	2767	2734	2634	2711	2.56	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1231-07	Instrumnet Name :	P8
Client Sample ID :	ME29C4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:10:57	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	293	257	260	270	7.51	cps
Ytterbium	172-1	157	130	160	149	11.04	cps
Ytterbium	172-2	33	73	47	51	39.85	cps
Ytterbium	176-1	2460	2337	2484	2427	3.25	cps
Ytterbium	176-2	287	320	313	307	5.75	cps
Yttrium	89-1	30843961	30677204	30627861	30716342	0.37	cps
Yttrium	89-2	2044459	2035165	2019615	2033080	0.62	cps
Zinc	66-2	387	287	330	334	15.00	cps
Zirconium	90-1	2617	2417	2574	2536	4.15	cps
Zirconium	91-1	523	513	517	518	0.98	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	97	77	73	82	15.35	cps
Antimony	121-1	127	83	107	106	20.55	cps
Arsenic	75-2	0	10	3	4	114.60	cps
Barium	135-1	310	297	367	324	11.46	cps
Barium	137-1	413	450	493	452	8.86	cps
Beryllium	9-1	600	557	569	575	3.83	cps
Bismuth	209-1	14438346	14102042	14272725	14271038	1.18	cps
Bismuth	209-2	5193734	5180843	5181335	5185304	0.14	cps
Bromine	81-1	68540	59807	53488	60612	12.47	cps
Cadmium	108-1	23	33	43	33	30.00	cps
Cadmium	106-1	10164	9954	10047	10055	1.05	cps
Cadmium	111-1	7142	6984	7029	7052	1.15	cps
Calcium	43-1	2050	1773	1600	1808	12.56	cps
Calcium	44-1	49129	45498	43958	46195	5.75	cps
Carbon	12-1	5620396	5224455	5054857	5299903	5.48	cps
Carbon	12-2	30585	30335	29516	30145	1.85	cps
Chlorine	35-1	3938981	3500556	3142101	3527213	11.32	cps
Chlorine	35-2	9583	8960	8533	9025	5.85	cps
Chromium	52-2	2247	2547	2434	2409	6.29	cps
Cobalt	59-2	160	150	157	156	3.27	cps
Copper	63-2	3647	3590	3334	3524	4.74	cps
Dysprosium	156-1	17	20	23	20	16.65	cps
Dysprosium	156-2	0	3	17	7	132.33	cps
Erbium	164-1	103	97	97	99	3.89	cps
Erbium	164-2	33	37	33	34	5.60	cps
Gadolinium	160-1	117	103	177	132	29.55	cps
Gadolinium	160-2	20	13	20	18	21.66	cps
Holmium	165-1	22377073	22189041	22339826	22301980	0.45	cps
Holmium	165-2	7015092	7044037	6983062	7014064	0.43	cps
Indium	115-1	18308009	18401901	18025346	18245085	1.07	cps
Indium	115-2	1478379	1486336	1476508	1480408	0.35	cps
Iron	54-2	853	883	887	874	2.10	cps
Iron	56-2	12906	12919	12726	12850	0.84	cps
Iron	57-2	347	310	360	339	7.64	cps
Krypton	83-1	330	337	313	327	3.68	cps
Lead	206-1	2357	2290	2370	2339	1.83	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1980	2010	1974	1988	0.98	cps
Lead	208-1	9245	9051	9071	9122	1.17	cps
Lithium	6-1	9209141	9628931	9440816	9426296	2.23	cps
Magnesium	24-2	5358	5191	4904	5151	4.45	cps
Manganese	55-2	317	287	273	292	7.60	cps
Molybdenum	94-1	720	693	783	732	6.31	cps
Molybdenum	95-1	747	747	817	770	5.25	cps
Molybdenum	96-1	900	820	920	880	6.01	cps
Molybdenum	97-1	453	440	463	452	2.59	cps
Molybdenum	98-1	1187	1140	1203	1177	2.79	cps
Neodymium	150-1	20	10	20	17	34.64	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1370	1560	1483	1471	6.50	cps
Phosphorus	31-2	77	57	67	67	15.00	cps
Potassium	39-2	11258	11101	11241	11200	0.77	cps
Rhodium	103-1	16776109	16857686	16694914	16776236	0.49	cps
Rhodium	103-2	6115200	6049197	6087126	6083841	0.54	cps
Scandium	45-1	12439638	12377295	12184234	12333723	1.08	cps
Scandium	45-2	211911	211165	210313	211130	0.38	cps
Selenium	82-1	60	23	7	30	90.93	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	10	10	0.00	cps
Silicon	28-1	703136	694576	679108	692273	1.76	cps
Silver	107-1	533	503	403	480	14.18	cps
Silver	109-1	343	317	373	344	8.23	cps
Sodium	23-2	67003	68001	66012	67005	1.48	cps
Strontium	86-1	5435	4207	3567	4403	21.55	cps
Strontium	88-1	45485	33221	31224	36643	21.07	cps
Sulfur	34-1	983335	991922	974564	983274	0.88	cps
Terbium	159-1	23582470	23211897	23428254	23407540	0.80	cps
Terbium	159-2	6862828	6772443	6812024	6815765	0.66	cps
Thallium	203-1	783	727	880	797	9.73	cps
Thallium	205-1	1947	1870	1677	1831	7.60	cps
Tin	118-1	2777	2587	2617	2660	3.84	cps
Titanium	47-1	297	300	320	306	4.13	cps
Uranium	238-1	60	67	53	60	11.12	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BL	Instrumnet Name :	P8
Client Sample ID :	PBW703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:14:15	DataFile Name :	030CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	7	20	23	17	52.90	cps
Ytterbium	172-1	147	100	140	129	19.58	cps
Ytterbium	172-2	63	50	57	57	11.76	cps
Ytterbium	176-1	2494	2384	2440	2439	2.26	cps
Ytterbium	176-2	300	347	317	321	7.36	cps
Yttrium	89-1	30963876	31080009	30738667	30927517	0.56	cps
Yttrium	89-2	1952218	1998737	1984916	1978624	1.21	cps
Zinc	66-2	220	233	237	230	3.84	cps
Zirconium	90-1	880	1100	903	961	12.57	cps
Zirconium	91-1	183	167	180	177	4.99	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3350	3147	3234	3244	3.15	cps
Antimony	121-1	78329	78366	78192	78296	0.12	cps
Arsenic	75-2	787	820	717	774	6.81	cps
Barium	135-1	94258	94386	94191	94278	0.11	cps
Barium	137-1	162482	162418	163390	162764	0.33	cps
Beryllium	9-1	15111	15497	14996	15201	1.73	cps
Bismuth	209-1	14283182	14163471	14048353	14165002	0.83	cps
Bismuth	209-2	5166236	5079841	5085242	5110440	0.95	cps
Bromine	81-1	27711	26271	25129	26370	4.91	cps
Cadmium	108-1	750	967	830	849	12.91	cps
Cadmium	106-1	10928	10851	11295	11024	2.15	cps
Cadmium	111-1	16965	17453	17052	17157	1.52	cps
Calcium	43-1	66690	66727	66064	66494	0.56	cps
Calcium	44-1	1081890	1073600	1077253	1077581	0.39	cps
Carbon	12-1	5123715	4818265	4701659	4881213	4.47	cps
Carbon	12-2	29035	28888	28271	28731	1.41	cps
Chlorine	35-1	3629172	3704999	3663881	3666017	1.04	cps
Chlorine	35-2	13370	13376	13403	13383	0.13	cps
Chromium	52-2	17054	17411	18005	17490	2.75	cps
Cobalt	59-2	15609	15742	15198	15516	1.83	cps
Copper	63-2	29066	28936	29070	29024	0.26	cps
Dysprosium	156-1	20	20	30	23	24.74	cps
Dysprosium	156-2	3	0	13	6	124.93	cps
Erbium	164-1	80	120	73	91	27.70	cps
Erbium	164-2	30	23	23	26	15.07	cps
Gadolinium	160-1	110	117	110	112	3.43	cps
Gadolinium	160-2	17	20	17	18	10.81	cps
Holmium	165-1	22829943	22380911	22290477	22500444	1.28	cps
Holmium	165-2	7035503	7065187	6979054	7026581	0.62	cps
Indium	115-1	17775068	18043639	17844671	17887793	0.78	cps
Indium	115-2	1461302	1459039	1457082	1459141	0.14	cps
Iron	54-2	65432	65888	65566	65629	0.36	cps
Iron	56-2	1200238	1202366	1199799	1200801	0.11	cps
Iron	57-2	29470	29795	30349	29871	1.49	cps
Krypton	83-1	307	303	257	289	9.68	cps
Lead	206-1	32949	34506	33173	33542	2.51	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	28899	28986	29804	29230	1.71	cps
Lead	208-1	132057	134506	132978	133180	0.93	cps
Lithium	6-1	9312599	9360551	9363702	9345617	0.31	cps
Magnesium	24-2	278711	277418	281033	279054	0.66	cps
Manganese	55-2	3500	3630	3370	3500	3.71	cps
Molybdenum	94-1	79013	78966	79633	79204	0.47	cps
Molybdenum	95-1	97338	97113	97159	97203	0.12	cps
Molybdenum	96-1	106574	106890	106897	106787	0.17	cps
Molybdenum	97-1	60333	60779	59741	60284	0.86	cps
Molybdenum	98-1	156009	155601	155223	155611	0.25	cps
Neodymium	150-1	50	30	30	37	31.49	cps
Neodymium	150-2	3	3	7	4	43.40	cps
Nickel	60-2	5321	5471	5414	5402	1.40	cps
Phosphorus	31-2	263	293	247	268	8.83	cps
Potassium	39-2	159494	157836	158345	158558	0.54	cps
Rhodium	103-1	16812240	16402372	16586694	16600435	1.24	cps
Rhodium	103-2	5942167	5918994	5975283	5945481	0.48	cps
Scandium	45-1	12400650	12085682	12115619	12200650	1.42	cps
Scandium	45-2	210415	207411	207023	208283	0.89	cps
Selenium	82-1	3180	3207	3097	3162	1.82	cps
Selenium	77-2	37	40	57	44	24.11	cps
Selenium	78-2	167	153	170	163	5.40	cps
Silicon	28-1	928745	906862	979572	938393	3.98	cps
Silver	107-1	47886	48916	49485	48763	1.66	cps
Silver	109-1	46107	46127	46100	46111	0.03	cps
Sodium	23-2	627064	626391	625526	626327	0.12	cps
Strontium	86-1	14187	13653	13650	13830	2.24	cps
Strontium	88-1	117306	115150	114970	115808	1.12	cps
Sulfur	34-1	948647	938384	926067	937699	1.21	cps
Terbium	159-1	23198043	23274526	23175650	23216073	0.22	cps
Terbium	159-2	6797736	6746384	6707861	6750660	0.67	cps
Thallium	203-1	39269	39105	38798	39057	0.61	cps
Thallium	205-1	93239	94572	92987	93599	0.91	cps
Tin	118-1	160866	160508	162767	161381	0.75	cps
Titanium	47-1	7422	7792	7502	7572	2.57	cps
Uranium	238-1	116760	116688	117119	116856	0.20	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	PB166703BS	Instrumnet Name :	P8
Client Sample ID :	LCS703	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:17:35	DataFile Name :	031LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	31191	31040	31622	31284	0.96	cps
Ytterbium	172-1	97	120	110	109	10.75	cps
Ytterbium	172-2	43	50	40	44	11.46	cps
Ytterbium	176-1	2750	2720	2464	2645	5.96	cps
Ytterbium	176-2	377	360	400	379	5.30	cps
Yttrium	89-1	30985423	30968003	30287741	30747056	1.29	cps
Yttrium	89-2	1941386	1957588	1919502	1939492	0.99	cps
Zinc	66-2	6588	6301	6325	6405	2.49	cps
Zirconium	90-1	68125	67898	67328	67784	0.61	cps
Zirconium	91-1	15646	14735	14875	15085	3.25	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	89702	89588	90824	90038	0.76	cps
Antimony	121-1	1417	1347	1307	1357	4.10	cps
Arsenic	75-2	757	860	670	762	12.48	cps
Barium	135-1	140941	139719	138730	139797	0.79	cps
Barium	137-1	241265	242739	240552	241519	0.46	cps
Beryllium	9-1	1116	1150	1104	1123	2.13	cps
Bismuth	209-1	12519164	12287364	12095944	12300824	1.72	cps
Bismuth	209-2	4479452	4480773	4452507	4470911	0.36	cps
Bromine	81-1	193506	237810	263068	231461	15.21	cps
Cadmium	108-1	127	173	177	159	17.59	cps
Cadmium	106-1	9563	9593	9360	9506	1.34	cps
Cadmium	111-1	7342	7237	7142	7240	1.39	cps
Calcium	43-1	28583240	28437198	28120090	28380176	0.83	cps
Calcium	44-1	451894620	456910167	445705193	451503327	1.24	cps
Carbon	12-1	14177345	15077565	15628485	14961132	4.90	cps
Carbon	12-2	103588	104434	103615	103879	0.46	cps
Chlorine	35-1	115435095	122218488	124395578	120683054	3.87	cps
Chlorine	35-2	473090	479050	482747	478296	1.02	cps
Chromium	52-2	11164	10781	11041	10995	1.78	cps
Cobalt	59-2	6902	6495	6855	6751	3.30	cps
Copper	63-2	17454	17297	17634	17462	0.97	cps
Dysprosium	156-1	8633	8913	8693	8746	1.69	cps
Dysprosium	156-2	2460	2454	2524	2479	1.56	cps
Erbium	164-1	6745	6959	6922	6875	1.66	cps
Erbium	164-2	2090	1933	2180	2068	6.04	cps
Gadolinium	160-1	8186	7832	8043	8020	2.22	cps
Gadolinium	160-2	2874	2824	2917	2871	1.63	cps
Holmium	165-1	21726914	21424589	21374799	21508767	0.89	cps
Holmium	165-2	6731091	6700022	6792214	6741109	0.70	cps
Indium	115-1	16617626	16032214	16383767	16344535	1.80	cps
Indium	115-2	1363228	1366418	1378442	1369362	0.59	cps
Iron	54-2	799663	798018	803577	800419	0.36	cps
Iron	56-2	15497633	15620295	15661607	15593178	0.55	cps
Iron	57-2	370650	367499	369062	369070	0.43	cps
Krypton	83-1	410	417	407	411	1.24	cps
Lead	206-1	26841	27389	26207	26812	2.21	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	21344	21655	21194	21398	1.10	cps
Lead	208-1	100812	102216	100131	101053	1.05	cps
Lithium	6-1	8616573	8466915	8485352	8522947	0.96	cps
Magnesium	24-2	39888689	39596786	39140104	39541860	0.95	cps
Manganese	55-2	126776	128495	127974	127748	0.69	cps
Molybdenum	94-1	42858	36000	35095	37984	11.18	cps
Molybdenum	95-1	37200	37617	36217	37011	1.94	cps
Molybdenum	96-1	42853	42408	41535	42265	1.59	cps
Molybdenum	97-1	22572	22996	22779	22782	0.93	cps
Molybdenum	98-1	59420	59209	59851	59493	0.55	cps
Neodymium	150-1	12933	12423	12536	12630	2.12	cps
Neodymium	150-2	2544	2680	2667	2630	2.87	cps
Nickel	60-2	8022	8129	8182	8111	1.00	cps
Phosphorus	31-2	477	540	583	533	10.06	cps
Potassium	39-2	821535	821532	829272	824113	0.54	cps
Rhodium	103-1	14350305	14453606	14421733	14408548	0.37	cps
Rhodium	103-2	5308286	5223082	5277761	5269710	0.82	cps
Scandium	45-1	11859794	11665385	11611323	11712167	1.12	cps
Scandium	45-2	206616	206440	207103	206720	0.17	cps
Selenium	82-1	160	77	137	124	34.55	cps
Selenium	77-2	13	13	10	12	15.73	cps
Selenium	78-2	23	20	43	29	43.68	cps
Silicon	28-1	147786511	151883914	149661264	149777230	1.37	cps
Silver	107-1	2130	1890	1757	1926	9.83	cps
Silver	109-1	1637	1373	1267	1426	13.36	cps
Sodium	23-2	273228343	267843183	270326496	270466007	1.00	cps
Strontium	86-1	139455105	138572485	138679931	138902507	0.35	cps
Strontium	88-1	1196867822	1193565556	1184083609	1191505662	0.56	cps
Sulfur	34-1	22640096	22668032	22674735	22660954	0.08	cps
Terbium	159-1	22776663	21933321	21569440	22093141	2.80	cps
Terbium	159-2	6587603	6424352	6521598	6511185	1.26	cps
Thallium	203-1	1950	2180	2110	2080	5.67	cps
Thallium	205-1	4511	5011	5014	4845	5.98	cps
Tin	118-1	4848	4351	4561	4586	5.44	cps
Titanium	47-1	99370	121943	123089	114801	11.65	cps
Uranium	238-1	38241	38689	38265	38398	0.66	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:20:56	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	10574	10767	10954	10765	1.77	cps
Ytterbium	172-1	1970	1970	1970	1970	0.00	cps
Ytterbium	172-2	697	787	780	754	6.65	cps
Ytterbium	176-1	3507	3674	3354	3512	4.56	cps
Ytterbium	176-2	783	777	777	779	0.49	cps
Yttrium	89-1	29828934	29520124	28874235	29407764	1.66	cps
Yttrium	89-2	1919581	1950015	1941699	1937098	0.81	cps
Zinc	66-2	5144	5151	5191	5162	0.49	cps
Zirconium	90-1	45202	40027	43566	42932	6.16	cps
Zirconium	91-1	9083	8973	9244	9100	1.50	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	15962	16399	16590	16317	1.97	cps
Antimony	121-1	9387	9553	9547	9496	0.99	cps
Arsenic	75-2	450	530	470	483	8.61	cps
Barium	135-1	900395	909512	893128	901011	0.91	cps
Barium	137-1	1686723	1678296	1652598	1672539	1.06	cps
Beryllium	9-1	615	616	624	618	0.77	cps
Bismuth	209-1	13889924	13759406	13704779	13784703	0.69	cps
Bismuth	209-2	4977638	4980614	4944582	4967611	0.40	cps
Bromine	81-1	147581	164047	175042	162223	8.52	cps
Cadmium	108-1	237	263	257	252	5.50	cps
Cadmium	106-1	10357	10281	10174	10271	0.90	cps
Cadmium	111-1	8601	8849	8639	8696	1.53	cps
Calcium	43-1	19386271	19684370	19254075	19441572	1.13	cps
Calcium	44-1	308129749	311190735	310202169	309840884	0.50	cps
Carbon	12-1	20102199	21155714	21641756	20966557	3.75	cps
Carbon	12-2	141046	139699	141551	140765	0.68	cps
Chlorine	35-1	21117341	21973896	22156551	21749263	2.55	cps
Chlorine	35-2	82765	82198	81823	82262	0.58	cps
Chromium	52-2	4094	3904	4054	4017	2.49	cps
Cobalt	59-2	11608	11285	11525	11472	1.46	cps
Copper	63-2	11935	11965	12145	12015	0.95	cps
Dysprosium	156-1	1100	1147	1130	1126	2.10	cps
Dysprosium	156-2	253	277	323	284	12.53	cps
Erbium	164-1	1033	967	897	966	7.08	cps
Erbium	164-2	240	247	290	259	10.49	cps
Gadolinium	160-1	1167	1070	1160	1132	4.77	cps
Gadolinium	160-2	320	357	487	388	22.59	cps
Holmium	165-1	22497665	22823111	22658460	22659745	0.72	cps
Holmium	165-2	7192955	7138132	7172526	7167871	0.39	cps
Indium	115-1	17653017	17905174	17824436	17794209	0.72	cps
Indium	115-2	1481372	1486194	1487568	1485045	0.22	cps
Iron	54-2	178466	178473	179455	178798	0.32	cps
Iron	56-2	3499786	3468845	3462966	3477199	0.57	cps
Iron	57-2	82185	81618	82463	82089	0.52	cps
Krypton	83-1	363	263	300	309	16.38	cps
Lead	206-1	14195	13877	14148	14073	1.22	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	11879	11672	11138	11563	3.31	cps
Lead	208-1	53703	54027	52682	53471	1.31	cps
Lithium	6-1	9435338	9329021	9409651	9391337	0.59	cps
Magnesium	24-2	16558219	16829102	16556397	16647906	0.94	cps
Manganese	55-2	431663	432545	431629	431946	0.12	cps
Molybdenum	94-1	160939	159793	158309	159681	0.83	cps
Molybdenum	95-1	270377	269333	270431	270047	0.23	cps
Molybdenum	96-1	289265	292643	288245	290051	0.79	cps
Molybdenum	97-1	166747	166822	165945	166505	0.29	cps
Molybdenum	98-1	435619	435219	428274	433037	0.95	cps
Neodymium	150-1	1427	1603	1473	1501	6.10	cps
Neodymium	150-2	323	360	343	342	5.36	cps
Nickel	60-2	11495	11475	11618	11529	0.67	cps
Phosphorus	31-2	380	300	343	341	11.74	cps
Potassium	39-2	324787	325105	327224	325705	0.41	cps
Rhodium	103-1	16190765	16039132	15885988	16038628	0.95	cps
Rhodium	103-2	5919466	5814345	5771900	5835237	1.30	cps
Scandium	45-1	12654902	12548884	12247109	12483632	1.69	cps
Scandium	45-2	219423	219974	218397	219265	0.36	cps
Selenium	82-1	523	587	660	590	11.59	cps
Selenium	77-2	0	7	10	6	91.64	cps
Selenium	78-2	27	23	50	33	43.59	cps
Silicon	28-1	76725051	77040402	75422877	76396110	1.12	cps
Silver	107-1	673	583	657	638	7.51	cps
Silver	109-1	397	407	387	397	2.52	cps
Sodium	23-2	55797064	56938442	55681013	56138840	1.24	cps
Strontium	86-1	42049291	42328466	41840497	42072751	0.58	cps
Strontium	88-1	364012235	364731075	359518475	362753928	0.78	cps
Sulfur	34-1	12670086	12812659	12723227	12735324	0.57	cps
Terbium	159-1	23596830	23458171	23361253	23472085	0.50	cps
Terbium	159-2	7013397	6886186	6862445	6920676	1.17	cps
Thallium	203-1	920	847	907	891	4.38	cps
Thallium	205-1	2237	2340	2067	2215	6.23	cps
Tin	118-1	2397	2444	2637	2492	5.11	cps
Titanium	47-1	15943	15335	16303	15860	3.08	cps
Uranium	238-1	1754914	1770399	1756620	1760644	0.48	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-02	Instrumnet Name :	P8
Client Sample ID :	ME29C7	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:24:13	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	2100	2124	2174	2132	1.76	cps
Ytterbium	172-1	423	380	373	392	6.92	cps
Ytterbium	172-2	153	143	133	143	6.98	cps
Ytterbium	176-1	2557	2747	2637	2647	3.60	cps
Ytterbium	176-2	323	410	387	373	12.01	cps
Yttrium	89-1	31811440	31029103	31168870	31336471	1.33	cps
Yttrium	89-2	2043442	2049284	2041675	2044800	0.19	cps
Zinc	66-2	8059	8269	7739	8022	3.33	cps
Zirconium	90-1	19040	19284	18409	18911	2.39	cps
Zirconium	91-1	4381	4264	4011	4218	4.49	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1023	830	1010	954	11.31	cps
Antimony	121-1	210	297	263	257	17.03	cps
Arsenic	75-2	147	123	157	142	12.03	cps
Barium	135-1	182394	178359	179104	179952	1.19	cps
Barium	137-1	312975	308965	310820	310920	0.65	cps
Beryllium	9-1	600	566	535	567	5.73	cps
Bismuth	209-1	13759249	13752409	13749634	13753764	0.04	cps
Bismuth	209-2	4917932	4997921	5006535	4974129	0.98	cps
Bromine	81-1	194180	227403	245854	222479	11.77	cps
Cadmium	108-1	73	50	80	68	23.24	cps
Cadmium	106-1	10464	9960	9737	10054	3.71	cps
Cadmium	111-1	7574	7261	7063	7299	3.53	cps
Calcium	43-1	15624024	15203494	15169396	15332304	1.65	cps
Calcium	44-1	244249110	238193723	241832103	241424979	1.26	cps
Carbon	12-1	12982191	13994259	14373374	13783275	5.22	cps
Carbon	12-2	94380	94169	94014	94188	0.19	cps
Chlorine	35-1	14448869	15128594	15690124	15089195	4.12	cps
Chlorine	35-2	59231	58481	58698	58803	0.66	cps
Chromium	52-2	2280	2217	2114	2204	3.82	cps
Cobalt	59-2	407	430	410	416	3.04	cps
Copper	63-2	3587	3854	3817	3753	3.85	cps
Dysprosium	156-1	193	187	143	174	15.56	cps
Dysprosium	156-2	77	67	53	66	17.86	cps
Erbium	164-1	247	340	267	284	17.28	cps
Erbium	164-2	73	100	70	81	20.27	cps
Gadolinium	160-1	290	297	250	279	9.05	cps
Gadolinium	160-2	80	70	87	79	10.64	cps
Holmium	165-1	23117905	22614986	22605051	22779314	1.29	cps
Holmium	165-2	7208915	7099840	6986978	7098578	1.56	cps
Indium	115-1	18203835	17889340	17759574	17950916	1.27	cps
Indium	115-2	1477776	1471799	1461739	1470438	0.55	cps
Iron	54-2	27239	27142	26465	26949	1.57	cps
Iron	56-2	495227	497269	494669	495722	0.28	cps
Iron	57-2	12779	12729	12796	12768	0.27	cps
Krypton	83-1	280	327	337	314	9.62	cps
Lead	206-1	5184	5411	5291	5296	2.14	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4588	4457	4244	4430	3.91	cps
Lead	208-1	20650	20500	20126	20425	1.32	cps
Lithium	6-1	9392530	9165237	9156170	9237979	1.45	cps
Magnesium	24-2	19750647	19576188	19271368	19532734	1.24	cps
Manganese	55-2	68188	68808	66490	67829	1.77	cps
Molybdenum	94-1	3197	2980	3074	3084	3.53	cps
Molybdenum	95-1	1270	1203	1253	1242	2.79	cps
Molybdenum	96-1	1733	1760	1760	1751	0.88	cps
Molybdenum	97-1	800	770	823	798	3.35	cps
Molybdenum	98-1	1863	1870	1994	1909	3.84	cps
Neodymium	150-1	173	253	233	220	18.92	cps
Neodymium	150-2	50	57	50	52	7.37	cps
Nickel	60-2	1710	1667	1707	1695	1.42	cps
Phosphorus	31-2	207	257	183	216	17.38	cps
Potassium	39-2	494230	499096	491050	494792	0.82	cps
Rhodium	103-1	16029017	15927541	15998899	15985153	0.33	cps
Rhodium	103-2	5882850	5723715	5705284	5770617	1.69	cps
Scandium	45-1	12552070	12589991	12354686	12498916	1.01	cps
Scandium	45-2	214192	215285	215600	215025	0.34	cps
Selenium	82-1	127	90	107	108	17.03	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	27	3	10	13	90.16	cps
Silicon	28-1	106709145	103393558	104435462	104846055	1.62	cps
Silver	107-1	637	530	560	576	9.56	cps
Silver	109-1	247	203	293	248	18.17	cps
Sodium	23-2	48340286	48470543	47840974	48217268	0.69	cps
Strontium	86-1	109490282	108825378	106763002	108359554	1.31	cps
Strontium	88-1	938549533	939315586	921173746	933012955	1.10	cps
Sulfur	34-1	15359706	15084986	15066276	15170323	1.08	cps
Terbium	159-1	23552152	23086257	22784769	23141059	1.67	cps
Terbium	159-2	6924983	6843868	6811039	6859963	0.85	cps
Thallium	203-1	557	507	457	507	9.87	cps
Thallium	205-1	1167	1130	1197	1165	2.87	cps
Tin	118-1	2704	2800	2834	2779	2.43	cps
Titanium	47-1	2824	2700	2717	2747	2.44	cps
Uranium	238-1	10458	10344	10598	10467	1.21	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-03	Instrumnet Name :	P8
Client Sample ID :	ME29C6	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:27:28	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	653	630	667	650	2.86	cps
Ytterbium	172-1	200	223	207	210	5.72	cps
Ytterbium	172-2	70	53	67	63	13.93	cps
Ytterbium	176-1	2434	2417	2414	2421	0.44	cps
Ytterbium	176-2	303	293	320	306	4.41	cps
Yttrium	89-1	31050255	31194923	30569510	30938229	1.06	cps
Yttrium	89-2	2041806	2000360	1993646	2011938	1.30	cps
Zinc	66-2	873	857	787	839	5.48	cps
Zirconium	90-1	7082	6892	6885	6953	1.61	cps
Zirconium	91-1	1523	1440	1483	1482	2.81	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	395911	397259	398292	397154	0.30	cps
Antimony	121-1	14518	15085	14625	14742	2.04	cps
Arsenic	75-2	1980	1927	1940	1949	1.42	cps
Barium	135-1	582456	580742	581180	581460	0.15	cps
Barium	137-1	1010004	1007198	1009262	1008821	0.14	cps
Beryllium	9-1	2435	2369	2314	2372	2.56	cps
Bismuth	209-1	13157060	13279331	13272667	13236353	0.52	cps
Bismuth	209-2	4735819	4797594	4707848	4747087	0.97	cps
Bromine	81-1	426380	488550	525393	480108	10.42	cps
Cadmium	108-1	513	487	493	498	2.79	cps
Cadmium	106-1	10587	10274	10354	10405	1.57	cps
Cadmium	111-1	8872	8708	8846	8809	1.00	cps
Calcium	43-1	30797670	30865107	30539001	30733926	0.56	cps
Calcium	44-1	491383833	492698206	484657899	489579979	0.88	cps
Carbon	12-1	17836137	19025096	19542245	18801159	4.65	cps
Carbon	12-2	129706	130748	128822	129759	0.74	cps
Chlorine	35-1	10669527	11514479	11901886	11361964	5.55	cps
Chlorine	35-2	44652	45277	44241	44723	1.17	cps
Chromium	52-2	46214	46773	46144	46377	0.74	cps
Cobalt	59-2	136611	136685	136382	136559	0.12	cps
Copper	63-2	70923	71211	71013	71049	0.21	cps
Dysprosium	156-1	24095	24155	24159	24136	0.15	cps
Dysprosium	156-2	7052	7269	7239	7186	1.63	cps
Erbium	164-1	19798	19678	19404	19627	1.03	cps
Erbium	164-2	5711	5685	5965	5787	2.67	cps
Gadolinium	160-1	22352	22629	22516	22499	0.62	cps
Gadolinium	160-2	8309	8379	8109	8266	1.70	cps
Holmium	165-1	22836740	22538695	22545876	22640437	0.75	cps
Holmium	165-2	7090826	7022554	7020615	7044665	0.57	cps
Indium	115-1	17439054	17681962	16978823	17366613	2.06	cps
Indium	115-2	1426091	1433482	1427312	1428962	0.28	cps
Iron	54-2	1672844	1672557	1652375	1665925	0.70	cps
Iron	56-2	30763215	30811044	30575087	30716448	0.41	cps
Iron	57-2	723332	728080	721609	724340	0.46	cps
Krypton	83-1	357	287	307	317	11.39	cps
Lead	206-1	83651	83758	82802	83404	0.63	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	66717	67082	66635	66812	0.36	cps
Lead	208-1	316308	317640	314760	316236	0.46	cps
Lithium	6-1	9226794	8919686	8981577	9042686	1.80	cps
Magnesium	24-2	56395162	56282297	55545888	56074449	0.82	cps
Manganese	55-2	5321069	5253956	5268918	5281315	0.67	cps
Molybdenum	94-1	193493	191536	195315	193448	0.98	cps
Molybdenum	95-1	226472	227857	229521	227950	0.67	cps
Molybdenum	96-1	253733	257400	252152	254428	1.06	cps
Molybdenum	97-1	140317	139331	141479	140376	0.77	cps
Molybdenum	98-1	362921	367297	363376	364531	0.66	cps
Neodymium	150-1	33980	33853	34010	33947	0.25	cps
Neodymium	150-2	7319	6965	7299	7194	2.76	cps
Nickel	60-2	66464	66314	66123	66300	0.26	cps
Phosphorus	31-2	1190	1280	1337	1269	5.83	cps
Potassium	39-2	2123895	2136791	2169456	2143381	1.10	cps
Rhodium	103-1	15396611	15527736	15381874	15435407	0.52	cps
Rhodium	103-2	5603051	5510443	5570828	5561440	0.85	cps
Scandium	45-1	12343163	12605683	12592869	12513905	1.18	cps
Scandium	45-2	215082	214425	214766	214758	0.15	cps
Selenium	82-1	607	690	627	641	6.79	cps
Selenium	77-2	40	43	47	43	7.70	cps
Selenium	78-2	63	33	33	43	39.97	cps
Silicon	28-1	245600536	241252470	238714496	241855834	1.44	cps
Silver	107-1	1250	1257	1377	1295	5.51	cps
Silver	109-1	860	1020	1153	1011	14.53	cps
Sodium	23-2	35396146	35968762	34740475	35368461	1.74	cps
Strontium	86-1	72772392	74059686	73002464	73278181	0.94	cps
Strontium	88-1	637230964	634984191	631888604	634701253	0.42	cps
Sulfur	34-1	48814504	49643069	48874318	49110630	0.94	cps
Terbium	159-1	23198769	23118695	22880362	23065942	0.72	cps
Terbium	159-2	6791257	6791604	6773520	6785460	0.15	cps
Thallium	203-1	4374	4374	4227	4325	1.96	cps
Thallium	205-1	10221	10041	10107	10123	0.90	cps
Tin	118-1	16347	16029	15549	15975	2.51	cps
Titanium	47-1	359938	354656	339715	351436	2.98	cps
Uranium	238-1	1363395	1371664	1354178	1363079	0.64	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-04	Instrumnet Name :	P8
Client Sample ID :	ME29C9	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:30:44	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	45345	44221	44295	44620	1.41	cps
Ytterbium	172-1	6005	5941	5848	5931	1.33	cps
Ytterbium	172-2	2244	2100	2210	2185	3.43	cps
Ytterbium	176-1	6435	6685	6895	6672	3.45	cps
Ytterbium	176-2	1800	1927	1787	1838	4.20	cps
Yttrium	89-1	31087362	31047575	31083000	31072646	0.07	cps
Yttrium	89-2	2002591	2050549	1998014	2017051	1.44	cps
Zinc	66-2	21834	22221	21406	21820	1.87	cps
Zirconium	90-1	174265	178680	176278	176407	1.25	cps
Zirconium	91-1	38132	41020	38924	39359	3.79	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	4591	4654	4414	4553	2.73	cps
Antimony	121-1	18646	18463	19130	18746	1.84	cps
Arsenic	75-2	87	90	93	90	3.70	cps
Barium	135-1	71390	70056	69333	70260	1.49	cps
Barium	137-1	123803	119764	120410	121326	1.79	cps
Beryllium	9-1	534	590	571	565	5.07	cps
Bismuth	209-1	13562513	13208306	13295299	13355373	1.38	cps
Bismuth	209-2	4769190	4804710	4805715	4793205	0.43	cps
Bromine	81-1	198145	227570	242505	222740	10.13	cps
Cadmium	108-1	70	123	107	100	27.29	cps
Cadmium	106-1	9760	9553	9603	9639	1.12	cps
Cadmium	111-1	7863	7641	7804	7770	1.48	cps
Calcium	43-1	21600995	21512756	21350626	21488125	0.59	cps
Calcium	44-1	343134462	343092102	341628595	342618386	0.25	cps
Carbon	12-1	16834452	17822756	18252790	17636666	4.12	cps
Carbon	12-2	118846	119931	119326	119367	0.46	cps
Chlorine	35-1	20276335	22259235	22995512	21843694	6.44	cps
Chlorine	35-2	88243	89799	89256	89100	0.89	cps
Chromium	52-2	5338	5231	5498	5356	2.51	cps
Cobalt	59-2	119677	118347	120390	119471	0.87	cps
Copper	63-2	262360	259925	262046	261444	0.51	cps
Dysprosium	156-1	453	380	477	437	11.55	cps
Dysprosium	156-2	133	133	143	137	4.22	cps
Erbium	164-1	537	517	477	510	5.99	cps
Erbium	164-2	127	170	127	141	17.73	cps
Gadolinium	160-1	480	503	487	490	2.45	cps
Gadolinium	160-2	190	123	203	172	24.89	cps
Holmium	165-1	22729811	22457204	22389930	22525648	0.80	cps
Holmium	165-2	7031772	7055213	6987773	7024919	0.49	cps
Indium	115-1	17935296	17721336	17454027	17703553	1.36	cps
Indium	115-2	1458154	1464264	1459639	1460686	0.22	cps
Iron	54-2	85926	85997	86513	86145	0.37	cps
Iron	56-2	1678881	1683633	1696203	1686239	0.53	cps
Iron	57-2	40207	39795	40283	40095	0.65	cps
Krypton	83-1	313	300	347	320	7.51	cps
Lead	206-1	23972	23358	23618	23649	1.30	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	19401	18283	19011	18898	3.00	cps
Lead	208-1	92118	97309	90343	93257	3.88	cps
Lithium	6-1	9330847	9262581	9246274	9279901	0.48	cps
Magnesium	24-2	30898756	31599714	31377057	31291842	1.14	cps
Manganese	55-2	117076	116057	114972	116035	0.91	cps
Molybdenum	94-1	5668	5474	5498	5547	1.90	cps
Molybdenum	95-1	7555	6978	6952	7162	4.76	cps
Molybdenum	96-1	8006	7822	8029	7952	1.42	cps
Molybdenum	97-1	4431	4821	4474	4575	4.67	cps
Molybdenum	98-1	11221	11321	11235	11259	0.48	cps
Neodymium	150-1	533	617	643	598	9.60	cps
Neodymium	150-2	100	137	130	122	15.98	cps
Nickel	60-2	4457	4227	4297	4327	2.73	cps
Phosphorus	31-2	9136	9153	9090	9126	0.36	cps
Potassium	39-2	997805	994301	991153	994420	0.33	cps
Rhodium	103-1	15733053	15679751	15615066	15675956	0.38	cps
Rhodium	103-2	5759578	5687869	5657607	5701685	0.92	cps
Scandium	45-1	12728837	12496731	12412888	12546152	1.30	cps
Scandium	45-2	218425	218722	218444	218530	0.08	cps
Selenium	82-1	207	197	153	186	15.28	cps
Selenium	77-2	0	7	0	2	173.21	cps
Selenium	78-2	10	3	0	4	114.60	cps
Silicon	28-1	80628564	81390957	81717585	81245702	0.69	cps
Silver	107-1	743	857	740	780	8.51	cps
Silver	109-1	557	563	597	572	3.75	cps
Sodium	23-2	64899274	65489942	64736222	65041813	0.61	cps
Strontium	86-1	60040789	58044037	58825054	58969960	1.71	cps
Strontium	88-1	512293112	497273593	502671019	504079241	1.51	cps
Sulfur	34-1	31798165	32212745	31814814	31941908	0.73	cps
Terbium	159-1	23385170	23157263	23154090	23232175	0.57	cps
Terbium	159-2	6851916	6728902	6715325	6765381	1.11	cps
Thallium	203-1	527	523	447	499	9.07	cps
Thallium	205-1	1147	1183	1210	1180	2.69	cps
Tin	118-1	18593	19234	19083	18970	1.77	cps
Titanium	47-1	12250	11335	11535	11707	4.11	cps
Uranium	238-1	13150	12189	12640	12660	3.80	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-05	Instrumnet Name :	P8
Client Sample ID :	ME29D1	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:33:59	DataFile Name :	036AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	800	747	847	798	6.27	cps
Ytterbium	172-1	250	230	313	264	16.45	cps
Ytterbium	172-2	53	73	103	77	32.83	cps
Ytterbium	176-1	2427	2427	2447	2434	0.47	cps
Ytterbium	176-2	340	363	360	354	3.56	cps
Yttrium	89-1	31012493	31144942	30432011	30863149	1.23	cps
Yttrium	89-2	2006761	1984406	1990576	1993914	0.58	cps
Zinc	66-2	9313	9880	9537	9577	2.98	cps
Zirconium	90-1	4234	4057	3871	4054	4.48	cps
Zirconium	91-1	1004	910	977	963	5.00	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	563	547	560	557	1.58	cps
Antimony	121-1	223	220	217	220	1.52	cps
Arsenic	75-2	30	27	10	22	48.22	cps
Barium	135-1	98686	96315	97242	97415	1.23	cps
Barium	137-1	168150	169823	167209	168394	0.79	cps
Beryllium	9-1	591	597	582	590	1.28	cps
Bismuth	209-1	13449350	13427265	13697919	13524845	1.11	cps
Bismuth	209-2	4872103	4889213	4835203	4865506	0.57	cps
Bromine	81-1	706468	847768	917363	823867	13.04	cps
Cadmium	108-1	43	40	47	43	7.70	cps
Cadmium	106-1	9900	9850	9997	9916	0.75	cps
Cadmium	111-1	7250	7157	7285	7231	0.91	cps
Calcium	43-1	15972045	15805473	16008558	15928692	0.68	cps
Calcium	44-1	250361156	249764050	248707516	249610907	0.34	cps
Carbon	12-1	13402075	14337380	14652286	14130580	4.60	cps
Carbon	12-2	97054	96091	96484	96543	0.50	cps
Chlorine	35-1	17174752	18314210	19101464	18196808	5.32	cps
Chlorine	35-2	70397	70685	71123	70735	0.52	cps
Chromium	52-2	2160	2187	2167	2171	0.64	cps
Cobalt	59-2	477	397	320	398	19.69	cps
Copper	63-2	5658	6071	5675	5801	4.04	cps
Dysprosium	156-1	73	113	83	90	23.13	cps
Dysprosium	156-2	30	30	33	31	6.18	cps
Erbium	164-1	173	193	187	184	5.52	cps
Erbium	164-2	47	53	77	59	26.75	cps
Gadolinium	160-1	203	197	153	184	14.72	cps
Gadolinium	160-2	37	20	47	34	39.11	cps
Holmium	165-1	22768381	22763256	22374446	22635361	1.00	cps
Holmium	165-2	7014058	6993092	7030996	7012715	0.27	cps
Indium	115-1	17936034	17746673	17728115	17803607	0.65	cps
Indium	115-2	1457310	1450768	1456181	1454753	0.24	cps
Iron	54-2	4024	3817	4007	3949	2.91	cps
Iron	56-2	72426	73089	72945	72820	0.48	cps
Iron	57-2	2304	2364	2394	2354	1.95	cps
Krypton	83-1	293	280	313	296	5.68	cps
Lead	206-1	5174	5298	5211	5228	1.21	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4431	4334	4584	4450	2.83	cps
Lead	208-1	20697	20770	20750	20739	0.18	cps
Lithium	6-1	9416975	9379436	9222819	9339743	1.10	cps
Magnesium	24-2	18815512	18770766	18918117	18834798	0.40	cps
Manganese	55-2	25743	25383	25065	25397	1.34	cps
Molybdenum	94-1	1180	1237	1207	1208	2.35	cps
Molybdenum	95-1	700	607	737	681	9.84	cps
Molybdenum	96-1	787	823	713	774	7.23	cps
Molybdenum	97-1	400	347	377	374	7.14	cps
Molybdenum	98-1	930	937	910	926	1.50	cps
Neodymium	150-1	107	83	97	96	12.25	cps
Neodymium	150-2	23	20	17	20	16.65	cps
Nickel	60-2	1730	1677	1807	1738	3.76	cps
Phosphorus	31-2	143	117	103	121	16.82	cps
Potassium	39-2	442284	440576	443892	442251	0.37	cps
Rhodium	103-1	16104391	16191355	15935119	16076955	0.81	cps
Rhodium	103-2	5766789	5735197	5697128	5733038	0.61	cps
Scandium	45-1	12590707	12582497	12613234	12595479	0.13	cps
Scandium	45-2	215278	215032	215074	215128	0.06	cps
Selenium	82-1	337	343	433	371	14.55	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	3	0	3	2	86.60	cps
Silicon	28-1	92977872	93828815	92595179	93133955	0.68	cps
Silver	107-1	620	620	673	638	4.83	cps
Silver	109-1	243	217	293	251	15.50	cps
Sodium	23-2	32732790	32591450	32636301	32653514	0.22	cps
Strontium	86-1	140775171	140203105	140035381	140337886	0.28	cps
Strontium	88-1	1204913422	1219174035	1218541102	1214209520	0.66	cps
Sulfur	34-1	13875380	13695254	13721296	13763976	0.71	cps
Terbium	159-1	23519315	23206892	23113237	23279815	0.91	cps
Terbium	159-2	6741841	6799013	6714048	6751634	0.64	cps
Thallium	203-1	427	420	393	413	4.27	cps
Thallium	205-1	1027	1020	927	991	5.64	cps
Tin	118-1	2180	2267	2180	2209	2.27	cps
Titanium	47-1	2000	2164	2040	2068	4.12	cps
Uranium	238-1	10958	10961	10498	10806	2.47	cps

Reviewed By:kareem
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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-06RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:37:13	DataFile Name :	037AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	353	337	313	334	6.01	cps
Ytterbium	172-1	157	193	207	186	13.95	cps
Ytterbium	172-2	50	57	50	52	7.37	cps
Ytterbium	176-1	2267	2387	2410	2355	3.27	cps
Ytterbium	176-2	267	393	393	351	20.83	cps
Yttrium	89-1	30948118	30999402	31213376	31053632	0.45	cps
Yttrium	89-2	1993702	1993499	2011953	1999718	0.53	cps
Zinc	66-2	1717	1573	1567	1619	5.24	cps
Zirconium	90-1	2577	2417	2644	2546	4.58	cps
Zirconium	91-1	503	540	503	516	4.11	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9194	8546	8793	8844	3.70	cps
Antimony	121-1	24245	24562	24178	24328	0.84	cps
Arsenic	75-2	720	843	790	784	7.89	cps
Barium	135-1	219560	221315	218560	219812	0.63	cps
Barium	137-1	384586	381328	380091	382002	0.61	cps
Beryllium	9-1	511	529	517	519	1.71	cps
Bismuth	209-1	13453865	13239558	13307573	13333665	0.82	cps
Bismuth	209-2	4823357	4820479	4753973	4799270	0.82	cps
Bromine	81-1	521742	547637	541592	536990	2.52	cps
Cadmium	108-1	727	793	723	748	5.28	cps
Cadmium	106-1	10531	10678	10164	10457	2.53	cps
Cadmium	111-1	14865	14581	14687	14711	0.98	cps
Calcium	43-1	14498706	14516474	14684360	14566513	0.70	cps
Calcium	44-1	233389410	229560837	230224923	231058390	0.89	cps
Carbon	12-1	41143084	42649097	42726704	42172962	2.12	cps
Carbon	12-2	278500	275696	278335	277511	0.57	cps
Chlorine	35-1	11966083	12947895	13183179	12699052	5.08	cps
Chlorine	35-2	50387	50300	50575	50421	0.28	cps
Chromium	52-2	11071	11378	10951	11133	1.98	cps
Cobalt	59-2	26702	26491	26251	26481	0.85	cps
Copper	63-2	140715	139177	140130	140007	0.55	cps
Dysprosium	156-1	700	790	777	756	6.43	cps
Dysprosium	156-2	207	227	217	217	4.62	cps
Erbium	164-1	857	873	910	880	3.10	cps
Erbium	164-2	250	350	300	300	16.67	cps
Gadolinium	160-1	857	903	837	866	3.95	cps
Gadolinium	160-2	263	260	293	272	6.74	cps
Holmium	165-1	22241201	22442346	22319256	22334268	0.45	cps
Holmium	165-2	7022093	7139572	7157822	7106496	1.04	cps
Indium	115-1	17790687	17381487	17359726	17510634	1.39	cps
Indium	115-2	1446072	1458534	1458581	1454395	0.50	cps
Iron	54-2	86375	86697	85574	86216	0.67	cps
Iron	56-2	1680920	1676983	1688290	1682064	0.34	cps
Iron	57-2	39558	39939	39715	39737	0.48	cps
Krypton	83-1	337	310	337	328	4.70	cps
Lead	206-1	64010	64513	63769	64098	0.59	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	53075	52275	51358	52236	1.65	cps
Lead	208-1	245289	245531	244490	245103	0.22	cps
Lithium	6-1	9274851	9106017	9165122	9181997	0.93	cps
Magnesium	24-2	54374538	54378056	54237146	54329913	0.15	cps
Manganese	55-2	3510279	3484938	3454446	3483221	0.80	cps
Molybdenum	94-1	192652	194676	195380	194236	0.73	cps
Molybdenum	95-1	336059	334558	333947	334855	0.32	cps
Molybdenum	96-1	356528	355825	357473	356609	0.23	cps
Molybdenum	97-1	208898	206556	209129	208194	0.68	cps
Molybdenum	98-1	540253	537018	537644	538305	0.32	cps
Neodymium	150-1	1017	933	933	961	5.01	cps
Neodymium	150-2	200	223	227	217	6.71	cps
Nickel	60-2	41069	41467	42834	41790	2.22	cps
Phosphorus	31-2	2597	2550	2450	2532	2.96	cps
Potassium	39-2	2501249	2444867	2479880	2475332	1.15	cps
Rhodium	103-1	16123316	15778290	15756549	15886052	1.30	cps
Rhodium	103-2	5750337	5706212	5702169	5719572	0.47	cps
Scandium	45-1	12592925	12334995	12530569	12486163	1.08	cps
Scandium	45-2	216177	217839	217457	217158	0.40	cps
Selenium	82-1	870	907	823	867	4.82	cps
Selenium	77-2	10	10	20	13	43.30	cps
Selenium	78-2	20	37	43	33	36.05	cps
Silicon	28-1	91567692	91877962	91290025	91578560	0.32	cps
Silver	107-1	2717	2774	2780	2757	1.26	cps
Silver	109-1	2294	2357	2267	2306	2.01	cps
Sodium	23-2	63637459	63557674	62197967	63131034	1.28	cps
Strontium	86-1	37167585	37628699	36741832	37179372	1.19	cps
Strontium	88-1	323647269	323046089	321421129	322704829	0.36	cps
Sulfur	34-1	29335460	29557865	29410867	29434731	0.38	cps
Terbium	159-1	23336376	23081487	22954415	23124093	0.84	cps
Terbium	159-2	6734942	6814999	6807262	6785734	0.65	cps
Thallium	203-1	4814	4981	5141	4979	3.28	cps
Thallium	205-1	11775	11255	11512	11514	2.26	cps
Tin	118-1	11542	11875	12179	11865	2.69	cps
Titanium	47-1	18564	20268	22304	20379	9.19	cps
Uranium	238-1	682504	668872	673279	674885	1.03	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07	Instrumnet Name :	P8
Client Sample ID :	ME29D4	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:40:33	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4878	4811	4831	4840	0.71	cps
Ytterbium	172-1	600	570	537	569	5.57	cps
Ytterbium	172-2	193	217	207	206	5.69	cps
Ytterbium	176-1	2610	2560	2567	2579	1.05	cps
Ytterbium	176-2	417	463	343	408	14.84	cps
Yttrium	89-1	31527778	31113952	30549806	31063845	1.58	cps
Yttrium	89-2	2000067	2006708	2033679	2013484	0.88	cps
Zinc	66-2	33727	33626	33653	33669	0.15	cps
Zirconium	90-1	14771	12666	13393	13610	7.85	cps
Zirconium	91-1	2897	2907	3050	2951	2.91	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	8399	8246	8129	8258	1.64	cps
Antimony	121-1	24308	24469	24432	24403	0.34	cps
Arsenic	75-2	860	887	820	856	3.92	cps
Barium	135-1	222477	223742	222256	222825	0.36	cps
Barium	137-1	386296	382869	384138	384434	0.45	cps
Beryllium	9-1	504	505	511	507	0.79	cps
Bismuth	209-1	13182039	13214463	13122701	13173067	0.35	cps
Bismuth	209-2	4894397	4762508	4819178	4825361	1.37	cps
Bromine	81-1	458862	485296	502000	482053	4.51	cps
Cadmium	108-1	800	673	720	731	8.76	cps
Cadmium	106-1	10237	10774	10147	10386	3.26	cps
Cadmium	111-1	14638	14950	14922	14837	1.16	cps
Calcium	43-1	14655124	14699418	14778911	14711151	0.43	cps
Calcium	44-1	230399877	236294396	233806257	233500177	1.27	cps
Carbon	12-1	41785584	42535884	43139103	42486857	1.60	cps
Carbon	12-2	282616	284361	282257	283078	0.40	cps
Chlorine	35-1	11765431	12822914	13179610	12589318	5.84	cps
Chlorine	35-2	49692	49538	50772	50000	1.35	cps
Chromium	52-2	10984	11305	11408	11232	1.97	cps
Cobalt	59-2	25944	26708	26498	26383	1.50	cps
Copper	63-2	140658	141871	141846	141458	0.49	cps
Dysprosium	156-1	827	833	837	832	0.61	cps
Dysprosium	156-2	213	303	240	252	18.33	cps
Erbium	164-1	957	953	953	954	0.20	cps
Erbium	164-2	283	303	257	281	8.33	cps
Gadolinium	160-1	850	800	837	829	3.12	cps
Gadolinium	160-2	287	360	280	309	14.37	cps
Holmium	165-1	22450059	22497959	22441299	22463105	0.14	cps
Holmium	165-2	7028059	7089681	7079651	7065797	0.47	cps
Indium	115-1	17442555	17696844	17594861	17578087	0.73	cps
Indium	115-2	1458949	1469599	1478129	1468893	0.65	cps
Iron	54-2	86865	87777	88167	87603	0.76	cps
Iron	56-2	1671516	1708512	1709795	1696607	1.28	cps
Iron	57-2	39652	39829	40324	39935	0.87	cps
Krypton	83-1	297	403	287	329	19.66	cps
Lead	206-1	64871	64198	64935	64668	0.63	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	53055	51967	51609	52210	1.44	cps
Lead	208-1	246246	244551	245136	245311	0.35	cps
Lithium	6-1	9438927	9505253	9424028	9456069	0.46	cps
Magnesium	24-2	54825813	54869824	54241646	54645761	0.64	cps
Manganese	55-2	3427746	3544531	3559255	3510511	2.05	cps
Molybdenum	94-1	197366	195466	199212	197348	0.95	cps
Molybdenum	95-1	337037	339268	337338	337881	0.36	cps
Molybdenum	96-1	361772	362119	361592	361828	0.07	cps
Molybdenum	97-1	208230	207415	208834	208160	0.34	cps
Molybdenum	98-1	541502	539742	541997	541080	0.22	cps
Neodymium	150-1	940	997	1067	1001	6.34	cps
Neodymium	150-2	203	203	207	204	0.94	cps
Nickel	60-2	42436	42286	42503	42409	0.26	cps
Phosphorus	31-2	2424	2470	2250	2381	4.87	cps
Potassium	39-2	2526162	2473512	2494390	2498021	1.06	cps
Rhodium	103-1	16068016	15878967	16029661	15992215	0.62	cps
Rhodium	103-2	5836660	5714613	5830412	5793895	1.19	cps
Scandium	45-1	12738016	12797509	12667688	12734404	0.51	cps
Scandium	45-2	222681	220249	222364	221765	0.60	cps
Selenium	82-1	733	793	833	787	6.40	cps
Selenium	77-2	17	17	13	16	12.40	cps
Selenium	78-2	47	43	43	44	4.34	cps
Silicon	28-1	91632292	93276402	93712885	92873860	1.18	cps
Silver	107-1	2684	2900	2860	2815	4.10	cps
Silver	109-1	2554	2347	2317	2406	5.36	cps
Sodium	23-2	63758279	63253197	63560149	63523875	0.40	cps
Strontium	86-1	36835334	37704379	38078069	37539261	1.70	cps
Strontium	88-1	318686842	329148428	325054308	324296526	1.63	cps
Sulfur	34-1	29653473	30156384	30092565	29967474	0.91	cps
Terbium	159-1	23160581	22801196	23215395	23059058	0.98	cps
Terbium	159-2	6847427	6826276	6809269	6827657	0.28	cps
Thallium	203-1	4914	5058	4831	4934	2.32	cps
Thallium	205-1	11529	11599	11478	11535	0.52	cps
Tin	118-1	10397	10287	10441	10375	0.76	cps
Titanium	47-1	16934	26275	13936	19048	33.78	cps
Uranium	238-1	677984	676914	676302	677067	0.13	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-08RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2D	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:43:46	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	4864	4848	4801	4838	0.68	cps
Ytterbium	172-1	457	560	470	496	11.34	cps
Ytterbium	172-2	207	193	187	196	5.21	cps
Ytterbium	176-1	2530	2714	2390	2545	6.37	cps
Ytterbium	176-2	390	457	487	444	11.13	cps
Yttrium	89-1	31722958	31667511	30832287	31407585	1.59	cps
Yttrium	89-2	2024414	2025808	2054944	2035055	0.85	cps
Zinc	66-2	33730	33543	34646	33973	1.74	cps
Zirconium	90-1	13443	13337	13654	13478	1.20	cps
Zirconium	91-1	3094	2890	2900	2961	3.87	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1783	1737	1800	1773	1.85	cps
Antimony	121-1	5268	5348	5404	5340	1.29	cps
Arsenic	75-2	183	153	170	169	8.90	cps
Barium	135-1	46781	46837	47436	47018	0.77	cps
Barium	137-1	81523	80735	81651	81303	0.61	cps
Beryllium	9-1	470	545	507	507	7.39	cps
Bismuth	209-1	13548695	13927196	13711052	13728981	1.38	cps
Bismuth	209-2	4927591	4983788	4920790	4944056	0.70	cps
Bromine	81-1	126286	128922	128657	127955	1.13	cps
Cadmium	108-1	133	167	170	157	12.94	cps
Cadmium	106-1	9797	9900	9760	9819	0.74	cps
Cadmium	111-1	8538	8560	8510	8536	0.30	cps
Calcium	43-1	3195049	3078972	3067420	3113814	2.27	cps
Calcium	44-1	49470118	49109349	49147546	49242338	0.40	cps
Carbon	12-1	12783073	13015634	12552577	12783761	1.81	cps
Carbon	12-2	79403	79647	79436	79496	0.17	cps
Chlorine	35-1	3757005	3838720	3816109	3803945	1.11	cps
Chlorine	35-2	13777	13677	13336	13596	1.70	cps
Chromium	52-2	4194	4241	4247	4227	0.69	cps
Cobalt	59-2	5848	5835	5808	5830	0.35	cps
Copper	63-2	33419	33299	32815	33178	0.96	cps
Dysprosium	156-1	207	130	183	173	22.67	cps
Dysprosium	156-2	33	33	43	37	15.75	cps
Erbium	164-1	313	277	263	284	9.10	cps
Erbium	164-2	87	87	97	90	6.41	cps
Gadolinium	160-1	290	273	273	279	3.45	cps
Gadolinium	160-2	77	57	93	76	24.29	cps
Holmium	165-1	22616897	22421206	22421813	22486639	0.50	cps
Holmium	165-2	6882761	6948132	6977816	6936237	0.70	cps
Indium	115-1	17892406	17723978	17352149	17656178	1.57	cps
Indium	115-2	1449542	1449067	1447449	1448686	0.08	cps
Iron	54-2	18889	18969	19213	19024	0.89	cps
Iron	56-2	343167	345581	344198	344316	0.35	cps
Iron	57-2	8326	8623	8586	8512	1.90	cps
Krypton	83-1	317	320	327	321	1.59	cps
Lead	206-1	15806	15459	15446	15571	1.31	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	12666	12656	12630	12651	0.15	cps
Lead	208-1	59687	59226	59427	59447	0.39	cps
Lithium	6-1	9685783	9251438	9661671	9532964	2.56	cps
Magnesium	24-2	11400194	11259814	11252142	11304050	0.74	cps
Manganese	55-2	674365	686763	678226	679785	0.93	cps
Molybdenum	94-1	41304	40710	41983	41332	1.54	cps
Molybdenum	95-1	72377	70233	71412	71341	1.51	cps
Molybdenum	96-1	76780	75708	76281	76256	0.70	cps
Molybdenum	97-1	44053	43702	43939	43898	0.41	cps
Molybdenum	98-1	113224	114780	114272	114092	0.70	cps
Neodymium	150-1	193	240	240	224	12.00	cps
Neodymium	150-2	60	60	33	51	30.13	cps
Nickel	60-2	10084	9884	10164	10044	1.44	cps
Phosphorus	31-2	567	540	570	559	2.94	cps
Potassium	39-2	485456	485225	489316	486666	0.47	cps
Rhodium	103-1	16544811	16401677	16484506	16476998	0.44	cps
Rhodium	103-2	5868253	5807116	5831585	5835651	0.53	cps
Scandium	45-1	12446486	12543593	12347724	12445935	0.79	cps
Scandium	45-2	211531	213211	210154	211632	0.72	cps
Selenium	82-1	210	220	217	216	2.36	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	47	17	20	28	59.19	cps
Silicon	28-1	19541777	19993468	19684677	19739974	1.17	cps
Silver	107-1	887	860	813	853	4.35	cps
Silver	109-1	710	760	687	719	5.21	cps
Sodium	23-2	13258759	13098189	12972875	13109941	1.09	cps
Strontium	86-1	7772092	7872834	7910301	7851743	0.91	cps
Strontium	88-1	67624819	68412076	66622122	67553006	1.33	cps
Sulfur	34-1	7042667	6934753	7023078	7000166	0.82	cps
Terbium	159-1	23030971	22828177	22934489	22931212	0.44	cps
Terbium	159-2	6734304	6675051	6728209	6712521	0.49	cps
Thallium	203-1	1393	1350	1440	1395	3.23	cps
Thallium	205-1	3417	3354	3467	3413	1.66	cps
Tin	118-1	4844	4614	4491	4650	3.86	cps
Titanium	47-1	10708	2810	2737	5418	84.55	cps
Uranium	238-1	142947	141807	142110	142288	0.42	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-07LREX5	Instrumnet Name :	P8
Client Sample ID :	ME29D4L	Dilution Factor :	5
Date & Time Acquired :	2025-02-13 13:47:00	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	950	947	1003	967	3.29	cps
Ytterbium	172-1	223	197	167	196	14.50	cps
Ytterbium	172-2	83	60	60	68	19.87	cps
Ytterbium	176-1	2267	2447	2527	2414	5.52	cps
Ytterbium	176-2	297	267	290	284	5.54	cps
Yttrium	89-1	30720840	30912596	30857383	30830273	0.32	cps
Yttrium	89-2	1960987	1966398	1928881	1952088	1.04	cps
Zinc	66-2	7759	7075	7389	7408	4.62	cps
Zirconium	90-1	3307	3477	3237	3340	3.70	cps
Zirconium	91-1	800	1485	843	1043	36.80	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	145344	146636	147680	146553	0.80	cps
Antimony	121-1	1995569	1977632	1995514	1989572	0.52	cps
Arsenic	75-2	14347	14201	14618	14389	1.47	cps
Barium	135-1	9381426	9520789	9490170	9464128	0.77	cps
Barium	137-1	16148285	16272179	16066399	16162288	0.64	cps
Beryllium	9-1	328537	329724	332990	330417	0.70	cps
Bismuth	209-1	13121313	12999276	13036626	13052405	0.48	cps
Bismuth	209-2	4791621	4756220	4719281	4755707	0.76	cps
Bromine	81-1	427523	461109	474847	454493	5.36	cps
Cadmium	108-1	15105	15989	15629	15574	2.86	cps
Cadmium	106-1	29932	30788	30818	30513	1.65	cps
Cadmium	111-1	240282	236564	237797	238214	0.79	cps
Calcium	43-1	14243519	13987912	14060701	14097377	0.93	cps
Calcium	44-1	227336610	223702210	225076103	225371641	0.81	cps
Carbon	12-1	39028095	40257360	41317238	40200898	2.85	cps
Carbon	12-2	268012	269248	267695	268318	0.31	cps
Chlorine	35-1	53307383	57541677	60519119	57122726	6.34	cps
Chlorine	35-2	228456	235419	236122	233332	1.82	cps
Chromium	52-2	755375	754924	754527	754942	0.06	cps
Cobalt	59-2	3740071	3704904	3771687	3738888	0.89	cps
Copper	63-2	1573479	1564394	1570285	1569386	0.29	cps
Dysprosium	156-1	827	917	783	842	8.08	cps
Dysprosium	156-2	227	197	187	203	10.24	cps
Erbium	164-1	957	1013	943	971	3.83	cps
Erbium	164-2	280	310	253	281	10.09	cps
Gadolinium	160-1	880	800	787	822	6.14	cps
Gadolinium	160-2	273	283	253	270	5.66	cps
Holmium	165-1	22469582	22462438	22329064	22420361	0.35	cps
Holmium	165-2	6841754	6847924	6848164	6845948	0.05	cps
Indium	115-1	17526018	17064413	17256798	17282409	1.34	cps
Indium	115-2	1424718	1424817	1435576	1428370	0.44	cps
Iron	54-2	258838	256337	260936	258704	0.89	cps
Iron	56-2	4522651	4562609	4548875	4544712	0.45	cps
Iron	57-2	108888	107239	107324	107817	0.86	cps
Krypton	83-1	327	317	280	308	7.98	cps
Lead	206-1	357809	355612	355777	356399	0.34	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	297301	299576	299827	298901	0.47	cps
Lead	208-1	1389646	1397975	1397571	1395064	0.34	cps
Lithium	6-1	9139811	9214379	9275863	9210017	0.74	cps
Magnesium	24-2	52535746	52065564	53233296	52611535	1.12	cps
Manganese	55-2	4143003	4190621	4125167	4152930	0.81	cps
Molybdenum	94-1	193534	194112	193937	193861	0.15	cps
Molybdenum	95-1	334169	331247	331140	332185	0.52	cps
Molybdenum	96-1	350294	358464	357865	355541	1.28	cps
Molybdenum	97-1	206432	204868	208563	206621	0.90	cps
Molybdenum	98-1	538793	532964	528788	533515	0.94	cps
Neodymium	150-1	1487	1567	1410	1488	5.27	cps
Neodymium	150-2	220	240	223	228	4.71	cps
Nickel	60-2	987370	980504	986116	984663	0.37	cps
Phosphorus	31-2	2570	2494	2317	2460	5.28	cps
Potassium	39-2	2385502	2387793	2377765	2383687	0.22	cps
Rhodium	103-1	15478449	15580012	15259386	15439282	1.06	cps
Rhodium	103-2	5669491	5614707	5639981	5641393	0.49	cps
Scandium	45-1	12156235	12177722	12112840	12148932	0.27	cps
Scandium	45-2	213151	215941	215945	215012	0.75	cps
Selenium	82-1	6735	6729	7069	6844	2.84	cps
Selenium	77-2	133	127	117	126	6.68	cps
Selenium	78-2	353	383	400	379	6.24	cps
Silicon	28-1	87330259	88329862	90435139	88698420	1.79	cps
Silver	107-1	1027807	1036599	1025614	1030007	0.56	cps
Silver	109-1	978655	992673	998215	989848	1.02	cps
Sodium	23-2	60923092	61511309	60856696	61097032	0.59	cps
Strontium	86-1	36042611	36384199	36452424	36293078	0.61	cps
Strontium	88-1	309431222	313235742	315932909	312866624	1.04	cps
Sulfur	34-1	28665063	28742985	28901909	28769985	0.42	cps
Terbium	159-1	23085060	23263846	22933926	23094278	0.72	cps
Terbium	159-2	6750417	6705343	6627386	6694382	0.93	cps
Thallium	203-1	883116	889908	891562	888195	0.50	cps
Thallium	205-1	2325400	2309935	2270163	2301833	1.24	cps
Tin	118-1	12210	11508	11522	11747	3.42	cps
Titanium	47-1	28035	21761	12662	20819	37.13	cps
Uranium	238-1	673583	674343	675150	674359	0.12	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-09RE	Instrumnet Name :	P8
Client Sample ID :	ME29D2S	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:50:12	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1563824	1582910	1551954	1566229	1.00	cps
Ytterbium	172-1	500	460	540	500	8.00	cps
Ytterbium	172-2	180	210	190	193	7.90	cps
Ytterbium	176-1	2540	2674	2560	2591	2.78	cps
Ytterbium	176-2	333	353	453	380	16.92	cps
Yttrium	89-1	30886723	30353774	30753734	30664743	0.90	cps
Yttrium	89-2	1995419	1968442	2010878	1991580	1.08	cps
Zinc	66-2	311807	308493	312061	310787	0.64	cps
Zirconium	90-1	13744	13674	13687	13702	0.27	cps
Zirconium	91-1	3100	3180	3164	3148	1.34	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	45743	45663	45650	45685	0.11	cps
Antimony	121-1	1073	1173	1307	1185	9.88	cps
Arsenic	75-2	390	400	417	402	3.35	cps
Barium	135-1	70646	70606	71089	70780	0.38	cps
Barium	137-1	121506	121621	121177	121435	0.19	cps
Beryllium	9-1	956	1014	1012	994	3.30	cps
Bismuth	209-1	12715489	12479762	12339802	12511684	1.52	cps
Bismuth	209-2	4635389	4614199	4641775	4630455	0.31	cps
Bromine	81-1	127138	145091	158170	143466	10.86	cps
Cadmium	108-1	100	113	123	112	10.43	cps
Cadmium	106-1	9460	9587	9620	9556	0.88	cps
Cadmium	111-1	6975	7091	7098	7055	0.98	cps
Calcium	43-1	14314213	14696917	14475686	14495605	1.33	cps
Calcium	44-1	226508990	230063643	231642710	229405114	1.15	cps
Carbon	12-1	9255557	9379985	9475315	9370286	1.18	cps
Carbon	12-2	61672	62689	62147	62169	0.82	cps
Chlorine	35-1	54057318	58109581	60142807	57436569	5.39	cps
Chlorine	35-2	228625	232743	232133	231167	0.96	cps
Chromium	52-2	6805	7015	7002	6941	1.69	cps
Cobalt	59-2	4111	3934	3784	3943	4.15	cps
Copper	63-2	11054	10788	11124	10989	1.62	cps
Dysprosium	156-1	4467	4381	4287	4379	2.06	cps
Dysprosium	156-2	1260	1353	1180	1265	6.86	cps
Erbium	164-1	3464	3290	3310	3355	2.83	cps
Erbium	164-2	1053	1023	1033	1037	1.47	cps
Gadolinium	160-1	3887	3914	3964	3922	0.99	cps
Gadolinium	160-2	1383	1550	1457	1463	5.71	cps
Holmium	165-1	21182652	21299700	21497667	21326673	0.75	cps
Holmium	165-2	6847001	6665591	6658719	6723770	1.59	cps
Indium	115-1	16832440	16546381	16754261	16711027	0.88	cps
Indium	115-2	1368253	1380340	1376350	1374981	0.45	cps
Iron	54-2	405827	413728	409951	409835	0.96	cps
Iron	56-2	7937183	7940704	8001725	7959871	0.46	cps
Iron	57-2	187885	188150	188353	188129	0.12	cps
Krypton	83-1	287	250	307	281	10.22	cps
Lead	206-1	13724	13874	13454	13684	1.56	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	10661	11215	11175	11017	2.80	cps
Lead	208-1	51671	52241	51052	51655	1.15	cps
Lithium	6-1	8795580	8671015	8866068	8777554	1.13	cps
Magnesium	24-2	20330275	20063485	19885968	20093243	1.11	cps
Manganese	55-2	65238	64575	65409	65074	0.68	cps
Molybdenum	94-1	18386	18727	18816	18643	1.22	cps
Molybdenum	95-1	19297	18873	19030	19066	1.12	cps
Molybdenum	96-1	21256	20789	21346	21131	1.42	cps
Molybdenum	97-1	11648	11922	11275	11615	2.80	cps
Molybdenum	98-1	30023	29999	30527	30183	0.99	cps
Neodymium	150-1	6288	6045	6282	6205	2.23	cps
Neodymium	150-2	1473	1403	1410	1429	2.70	cps
Nickel	60-2	4971	5104	4904	4993	2.04	cps
Phosphorus	31-2	387	280	293	320	18.16	cps
Potassium	39-2	416498	417635	419385	417839	0.35	cps
Rhodium	103-1	14878664	14714744	14804715	14799374	0.55	cps
Rhodium	103-2	5425590	5359849	5514451	5433297	1.43	cps
Scandium	45-1	11803964	11882474	11800062	11828833	0.39	cps
Scandium	45-2	205308	205312	205968	205529	0.18	cps
Selenium	82-1	233	207	170	203	15.64	cps
Selenium	77-2	3	7	3	4	43.40	cps
Selenium	78-2	17	23	23	21	18.21	cps
Silicon	28-1	74333122	74103897	74460704	74299241	0.24	cps
Silver	107-1	1690	1307	1217	1405	17.90	cps
Silver	109-1	1487	1077	993	1186	22.28	cps
Sodium	23-2	137074208	139774445	138152898	138333850	0.98	cps
Strontium	86-1	69508584	69488271	69201464	69399440	0.25	cps
Strontium	88-1	600283058	600998351	603133751	601471720	0.25	cps
Sulfur	34-1	11926331	12012733	12051765	11996943	0.54	cps
Terbium	159-1	22180830	21775334	22020285	21992149	0.93	cps
Terbium	159-2	6492547	6478258	6473240	6481348	0.15	cps
Thallium	203-1	1633	1673	1860	1722	7.02	cps
Thallium	205-1	3914	4227	4081	4074	3.85	cps
Tin	118-1	3454	3564	3647	3555	2.73	cps
Titanium	47-1	50185	49046	56437	51889	7.67	cps
Uranium	238-1	21859	21205	21488	21517	1.52	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	Q1339-01DLX2	Instrumnet Name :	P8
Client Sample ID :	ME29C5	Dilution Factor :	2
Date & Time Acquired :	2025-02-13 13:53:19	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	5494	5338	5604	5479	2.45	cps
Ytterbium	172-1	953	1037	1057	1016	5.40	cps
Ytterbium	172-2	417	380	407	401	4.72	cps
Ytterbium	176-1	3010	2817	2917	2915	3.32	cps
Ytterbium	176-2	510	500	533	514	3.32	cps
Yttrium	89-1	29212895	29127848	29014905	29118549	0.34	cps
Yttrium	89-2	1909490	1902699	1916883	1909691	0.37	cps
Zinc	66-2	2774	2877	2737	2796	2.60	cps
Zirconium	90-1	21450	21998	21560	21669	1.34	cps
Zirconium	91-1	4874	4981	4931	4929	1.08	cps

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Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3535000	3532243	3513856	3527033	0.33	cps
Antimony	121-1	8509016	8678935	8597689	8595213	0.99	cps
Arsenic	75-2	146357	147125	148517	147333	0.74	cps
Barium	135-1	10752277	10739298	10655704	10715760	0.49	cps
Barium	137-1	18278046	18254315	17872133	18134831	1.26	cps
Beryllium	9-1	3022086	3014729	3012931	3016582	0.16	cps
Bismuth	209-1	11727509	11812567	11845226	11795101	0.52	cps
Bismuth	209-2	4296215	4270807	4287030	4284684	0.30	cps
Bromine	81-1	37945	34730	34111	35595	5.78	cps
Cadmium	108-1	162151	163952	165322	163808	0.97	cps
Cadmium	106-1	237421	243787	241616	240941	1.34	cps
Cadmium	111-1	2118236	2103394	2128835	2116822	0.60	cps
Calcium	43-1	14631113	14331477	14325122	14429237	1.21	cps
Calcium	44-1	229826670	229559523	230035743	229807312	0.10	cps
Carbon	12-1	5876718	5886167	5805687	5856191	0.75	cps
Carbon	12-2	42411	41869	41452	41911	1.15	cps
Chlorine	35-1	4023469	3786049	3544930	3784816	6.32	cps
Chlorine	35-2	10884	10581	10090	10518	3.81	cps
Chromium	52-2	1797359	1758167	1812090	1789205	1.56	cps
Cobalt	59-2	3256777	3274898	3296950	3276208	0.61	cps
Copper	63-2	24058825	24364218	24505411	24309485	0.94	cps
Dysprosium	156-1	503	493	397	464	12.68	cps
Dysprosium	156-2	150	123	113	129	14.70	cps
Erbium	164-1	507	490	517	504	2.67	cps
Erbium	164-2	163	150	143	152	6.69	cps
Gadolinium	160-1	333	427	430	397	13.83	cps
Gadolinium	160-2	113	187	153	151	24.30	cps
Holmium	165-1	20442279	20502667	20480572	20475173	0.15	cps
Holmium	165-2	6302901	6359128	6415116	6359048	0.88	cps
Indium	115-1	15299830	15560077	15119859	15326589	1.44	cps
Indium	115-2	1253458	1253136	1269406	1258667	0.74	cps
Iron	54-2	17465084	17745886	17853808	17688259	1.13	cps
Iron	56-2	320634029	324558415	330895775	325362740	1.59	cps
Iron	57-2	8216135	8114205	8240466	8190269	0.82	cps
Krypton	83-1	317	310	273	300	7.78	cps
Lead	206-1	34520029	34123504	34022937	34222157	0.77	cps

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	29170221	29161740	28894630	29075530	0.54	cps
Lead	208-1	134160146	134176045	134569350	134301847	0.17	cps
Lithium	6-1	8164794	8205756	8110519	8160356	0.59	cps
Magnesium	24-2	63782212	63135031	63232319	63383187	0.55	cps
Manganese	55-2	7158228	7107546	7157438	7141071	0.41	cps
Molybdenum	94-1	30496679	30499073	30371756	30455836	0.24	cps
Molybdenum	95-1	43634243	43826258	43585971	43682157	0.29	cps
Molybdenum	96-1	47889463	47535126	47822101	47748897	0.39	cps
Molybdenum	97-1	26978543	26701593	27075551	26918562	0.72	cps
Molybdenum	98-1	71415001	70305744	71484701	71068482	0.93	cps
Neodymium	150-1	850	770	820	813	4.97	cps
Neodymium	150-2	53	77	43	58	29.61	cps
Nickel	60-2	822789	824223	828059	825023	0.33	cps
Phosphorus	31-2	31695	32583	31477	31918	1.84	cps
Potassium	39-2	16828556	16687739	16983264	16833186	0.88	cps
Rhodium	103-1	13727944	13696400	13780915	13735086	0.31	cps
Rhodium	103-2	5076776	5004752	5019700	5033743	0.76	cps
Scandium	45-1	11172654	10933222	10820327	10975401	1.64	cps
Scandium	45-2	193132	192140	192058	192443	0.31	cps
Selenium	82-1	120337	121665	122240	121414	0.80	cps
Selenium	77-2	1950	1760	1747	1819	6.25	cps
Selenium	78-2	5975	6245	6518	6246	4.35	cps
Silicon	28-1	10159055	10185661	10196429	10180382	0.19	cps
Silver	107-1	10119648	10295573	10236590	10217270	0.88	cps
Silver	109-1	9692400	9619274	9782589	9698088	0.84	cps
Sodium	23-2	127287498	128042138	128083385	127804340	0.35	cps
Strontium	86-1	2874844	2896816	2856875	2876178	0.70	cps
Strontium	88-1	24280813	24437693	24267896	24328801	0.39	cps
Sulfur	34-1	1578371	1566694	1563085	1569383	0.51	cps
Terbium	159-1	21160027	21074768	20944214	21059670	0.52	cps
Terbium	159-2	6088688	6050913	6102338	6080646	0.44	cps
Thallium	203-1	8407349	8337434	8307763	8350849	0.61	cps
Thallium	205-1	20340258	19644763	19839477	19941499	1.80	cps
Tin	118-1	6982480	7037141	6831470	6950364	1.53	cps
Titanium	47-1	13315052	13267895	13239807	13274251	0.29	cps
Uranium	238-1	26811125	27188174	27234065	27077788	0.86	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCV028	Instrumnet Name :	P8
Client Sample ID :	CCV028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:56:34	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1431971	1378353	1417709	1409344	1.97	cps
Ytterbium	172-1	457	497	453	469	5.14	cps
Ytterbium	172-2	220	157	173	183	17.91	cps
Ytterbium	176-1	41298	41646	41391	41445	0.43	cps
Ytterbium	176-2	12056	12723	12669	12483	2.97	cps
Yttrium	89-1	27558028	27581368	27465381	27534926	0.22	cps
Yttrium	89-2	1803362	1814258	1797918	1805179	0.46	cps
Zinc	66-2	2587348	2598283	2613772	2599801	0.51	cps
Zirconium	90-1	15565196	15629810	15317788	15504265	1.06	cps
Zirconium	91-1	3447500	3442782	3440358	3443547	0.11	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	163	163	177	168	4.59	cps
Antimony	121-1	2470	2310	2217	2332	5.49	cps
Arsenic	75-2	23	3	13	13	75.02	cps
Barium	135-1	653	607	643	634	3.87	cps
Barium	137-1	1207	990	1080	1092	9.97	cps
Beryllium	9-1	1424	1291	1205	1307	8.43	cps
Bismuth	209-1	13774670	13510525	13620835	13635343	0.97	cps
Bismuth	209-2	4997054	4997251	4893155	4962486	1.21	cps
Bromine	81-1	20088	18689	18669	19149	4.25	cps
Cadmium	108-1	57	47	33	46	25.70	cps
Cadmium	106-1	9130	9684	9250	9354	3.11	cps
Cadmium	111-1	6501	6892	6618	6671	3.01	cps
Calcium	43-1	1103	970	1000	1024	6.83	cps
Calcium	44-1	32729	30676	32253	31886	3.37	cps
Carbon	12-1	5032127	4764464	4619478	4805356	4.36	cps
Carbon	12-2	28892	27679	28027	28199	2.21	cps
Chlorine	35-1	1931440	1815185	1693656	1813427	6.56	cps
Chlorine	35-2	5521	5054	5271	5282	4.42	cps
Chromium	52-2	3060	3040	3027	3043	0.55	cps
Cobalt	59-2	360	323	293	326	10.26	cps
Copper	63-2	4084	4364	3971	4140	4.89	cps
Dysprosium	156-1	20	10	13	14	35.26	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	120	100	97	106	11.95	cps
Erbium	164-2	37	33	37	36	5.42	cps
Gadolinium	160-1	87	117	107	103	14.78	cps
Gadolinium	160-2	17	23	23	21	18.21	cps
Holmium	165-1	21951586	22043103	21531057	21841915	1.25	cps
Holmium	165-2	6886511	6785231	6791050	6820931	0.83	cps
Indium	115-1	17611583	17351301	17662570	17541818	0.95	cps
Indium	115-2	1425111	1411415	1416720	1417749	0.49	cps
Iron	54-2	1513	1437	1453	1468	2.75	cps
Iron	56-2	25297	23604	23523	24141	4.15	cps
Iron	57-2	597	603	507	569	9.49	cps
Krypton	83-1	280	333	380	331	15.11	cps
Lead	206-1	4014	3817	3834	3888	2.81	cps

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On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3501	3254	3290	3348	3.98	cps
Lead	208-1	15994	14854	14830	15226	4.37	cps
Lithium	6-1	9119194	9341448	9137860	9199500	1.34	cps
Magnesium	24-2	5091	4941	4921	4984	1.86	cps
Manganese	55-2	867	640	723	743	15.42	cps
Molybdenum	94-1	1950	1777	1697	1808	7.16	cps
Molybdenum	95-1	2404	2064	2144	2204	8.07	cps
Molybdenum	96-1	2654	2300	2234	2396	9.42	cps
Molybdenum	97-1	1477	1273	1190	1313	11.23	cps
Molybdenum	98-1	3551	3174	3144	3289	6.89	cps
Neodymium	150-1	13	23	27	21	32.88	cps
Neodymium	150-2	10	10	0	7	86.60	cps
Nickel	60-2	1740	1617	1537	1631	6.28	cps
Phosphorus	31-2	93	70	70	78	17.32	cps
Potassium	39-2	11355	10737	10591	10894	3.72	cps
Rhodium	103-1	16344396	16166886	16216590	16242624	0.56	cps
Rhodium	103-2	5909875	5754625	5903731	5856077	1.50	cps
Scandium	45-1	11876242	12024561	11666985	11855930	1.52	cps
Scandium	45-2	202560	201806	201626	201997	0.25	cps
Selenium	82-1	33	-7	-87	-20	-305.51	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	10	10	13	11	17.30	cps
Silicon	28-1	638128	629011	620268	629136	1.42	cps
Silver	107-1	1607	1253	1250	1370	14.96	cps
Silver	109-1	1340	1263	1047	1217	12.50	cps
Sodium	23-2	67080	64803	64592	65491	2.11	cps
Strontium	86-1	1470	1243	1483	1399	9.64	cps
Strontium	88-1	8666	7292	8453	8137	9.09	cps
Sulfur	34-1	734947	740751	741212	738970	0.47	cps
Terbium	159-1	22396516	22237241	22424948	22352901	0.45	cps
Terbium	159-2	6479663	6434881	6561380	6491975	0.99	cps
Thallium	203-1	1337	1183	1373	1298	7.77	cps
Thallium	205-1	3104	2547	2544	2731	11.80	cps
Tin	118-1	3057	2940	2850	2949	3.51	cps
Titanium	47-1	580	530	513	541	6.41	cps
Uranium	238-1	637	607	627	623	2.45	cps

Reviewed By:kareem
On:2/18/2025 11:55:14 AM
Inst Id :P8

LB Number :	LB134712	Operator :	Jaswal
Lab Sample ID :	CCB028	Instrumnet Name :	P8
Client Sample ID :	CCB028	Dilution Factor :	1
Date & Time Acquired :	2025-02-13 13:59:20	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	53	53	49	15.74	cps
Ytterbium	172-1	133	117	147	132	11.37	cps
Ytterbium	172-2	60	40	27	42	39.73	cps
Ytterbium	176-1	2140	2090	2067	2099	1.79	cps
Ytterbium	176-2	273	307	323	301	8.45	cps
Yttrium	89-1	30289384	30347656	29558232	30065091	1.46	cps
Yttrium	89-2	1925474	1845665	1848365	1873168	2.42	cps
Zinc	66-2	267	283	290	280	4.29	cps
Zirconium	90-1	1730	1553	1680	1655	5.50	cps
Zirconium	91-1	370	380	370	373	1.55	cps

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Prep Standard - Chemical Standard Summary

Order ID : Q1255

Test : Metals CLP MS

Prepbatch ID : PB166636,

Sequence ID/Qc Batch ID: LB134674,LB134712,

Standard ID :
MP84041,MP84297,MP84414,MP84415,MP84416,MP84417,MP84418,MP84419,MP84420,MP84421,MP84422,MP84423,MP84438,MP84439,MP84440,MP84441,MP84442,MP84443,MP84444,MP84466,MP84473,MP84474,MP84600,

Chemical ID :
M4883,M4884,M4888,M5192,M5229,M5288,M5289,M5304,M5472,M5476,M5496,M5498,M5513,M5519,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M5811,M5815,M5816,M5817,M5820,M5873,M5874,M5960,M5962,M5977,M5978,M5981,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6032,M6055,M6079,M6121,M6126,M6127,M6128,M6144,M6145,M6146,M6150,M6151,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
170	1:1HCL	MP84297	01/31/2025	02/28/2025	Eman Mughal	None	None	Sarabjit Jaswal 01/31/2025

FROM 1250.00000ml of M6121 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

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

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Metals STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
870	ICPMS SPIKE SOL.B	MP84466	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sohil Jodhani 02/13/2025

FROM 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP84414 = Final Quantity: 50.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3963	CONC.LCSW SPIKE	MP84600	02/07/2025	02/28/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Kareem Khairalla 02/20/2025

FROM 0.05000ml of M5229 + 0.05000ml of M5472 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5960 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.10000ml of M5289 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.25000ml of M4883 + 0.25000ml of M5192 + 0.25000ml of M5799 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.25000ml of M6128 + 0.25000ml of M6145 + 0.50000ml of M6032 + 1.00000ml of M5811 + 1.25000ml of M5816 + 1.25000ml of M5820 + 1.25000ml of M6151 + 2.50000ml of M4884 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M6126 + 2.50000ml of M6127 + 2.50000ml of M6144 + 227.05000ml of W3112 = Final Quantity: 250.000 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.	57034 / Se, 1000 PPM, 125 ml	070221	09/07/2025	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

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.	57092 / U, 1000 PPM, 125 ml	073021	09/10/2025	11/27/2022 / jaswal	07/05/2022 / bin	M5229

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

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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.	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 #
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	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.	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 #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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

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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.	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.	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.	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 #
Inorganic Ventures	CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL	V2-MEB742036	03/12/2029	10/04/2024 / Jaswal	02/22/2024 / Jaswal	M5993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL	T2-MEB721963	07/27/2027	09/04/2024 / Jaswal	02/22/2024 / kareem	M5999

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	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

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

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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.	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	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

Refine your results. Redefine your industry. R: 02/22/24 M5991, M5992, M5993, M5994, M5995

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-4
Lot Number:	V2-MEB742036
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	100 µg/mL ea: Antimony,
	50 µg/mL ea: Cadmium, Thallium,
	40 µg/mL ea: Arsenic,
	20 µg/mL ea: Lead,
	10 µg/mL ea: Selenium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	100.0 ± 0.7 µg/mL	Arsenic, As	40.00 ± 0.26 µg/mL
Cadmium, Cd	50.00 ± 0.22 µg/mL	Lead, Pb	20.00 ± 0.09 µg/mL
Selenium, Se	10.00 ± 0.04 µg/mL	Thallium, Tl	50.00 ± 0.22 µg/mL

Density: 1.016 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- March 12, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

Part Number:	**57056**		**Lot #**		
Lot Number:	**010924**	**Solvent:**	24002546	Nitric Acid	
Description:	**Barium (Ba)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	010927				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

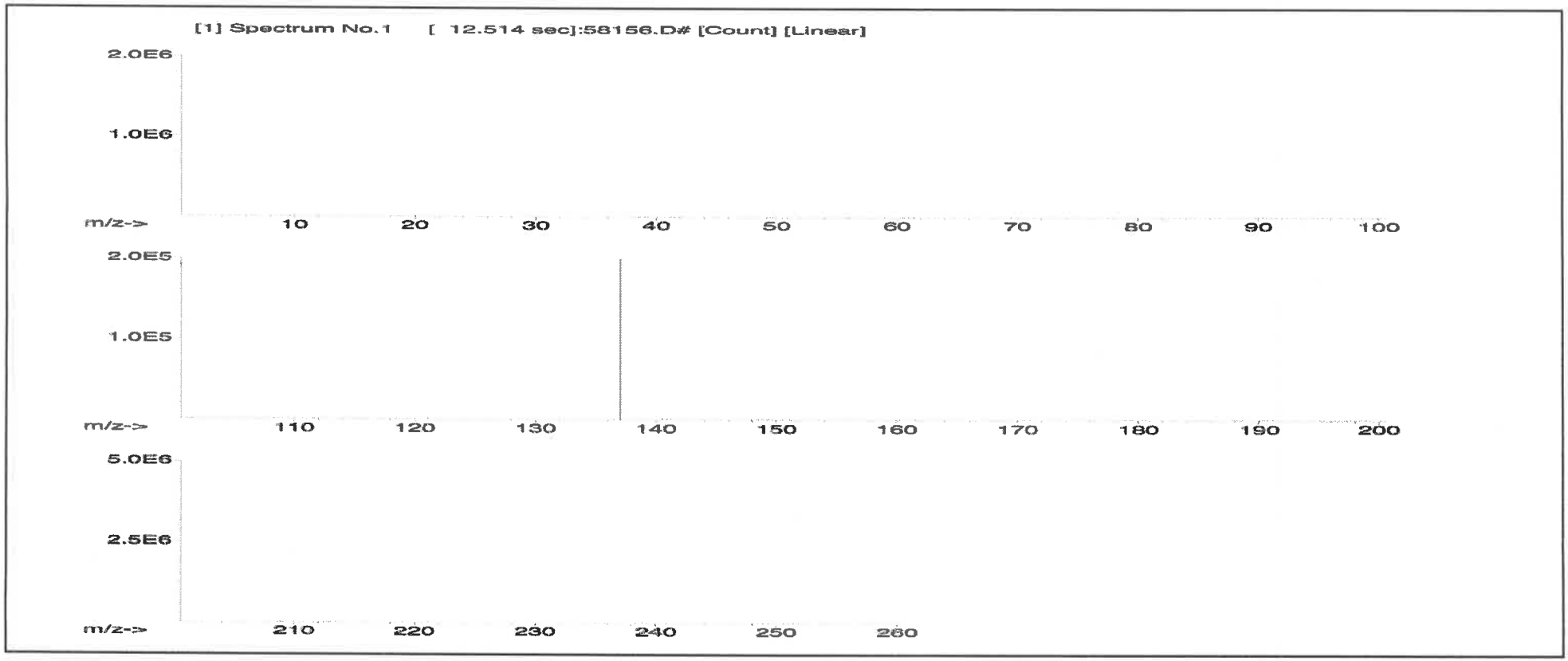
Giovanni Esposito

Formulated By:	Giovanni Esposito	010924

Pedro Rentas

Reviewed By:	Pedro L. Rentas	010924

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Barium nitrate (Ba)	IN023	BAD022019A1	1000	99.999	0.10	52.3	3.82417	3.82441	**1000.1**	**2.0**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	T	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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725

CERTIFIED WEIGHT REPORT:

Part Number:	**57048**		**Lot #**		
Lot Number:	**070124**	**Solvent:**	24002546	Nitric Acid	
Description:	**Cadmium (Cd)**	2%	40.0 (mL)	Nitric Acid	
Expiration Date:	070127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty		

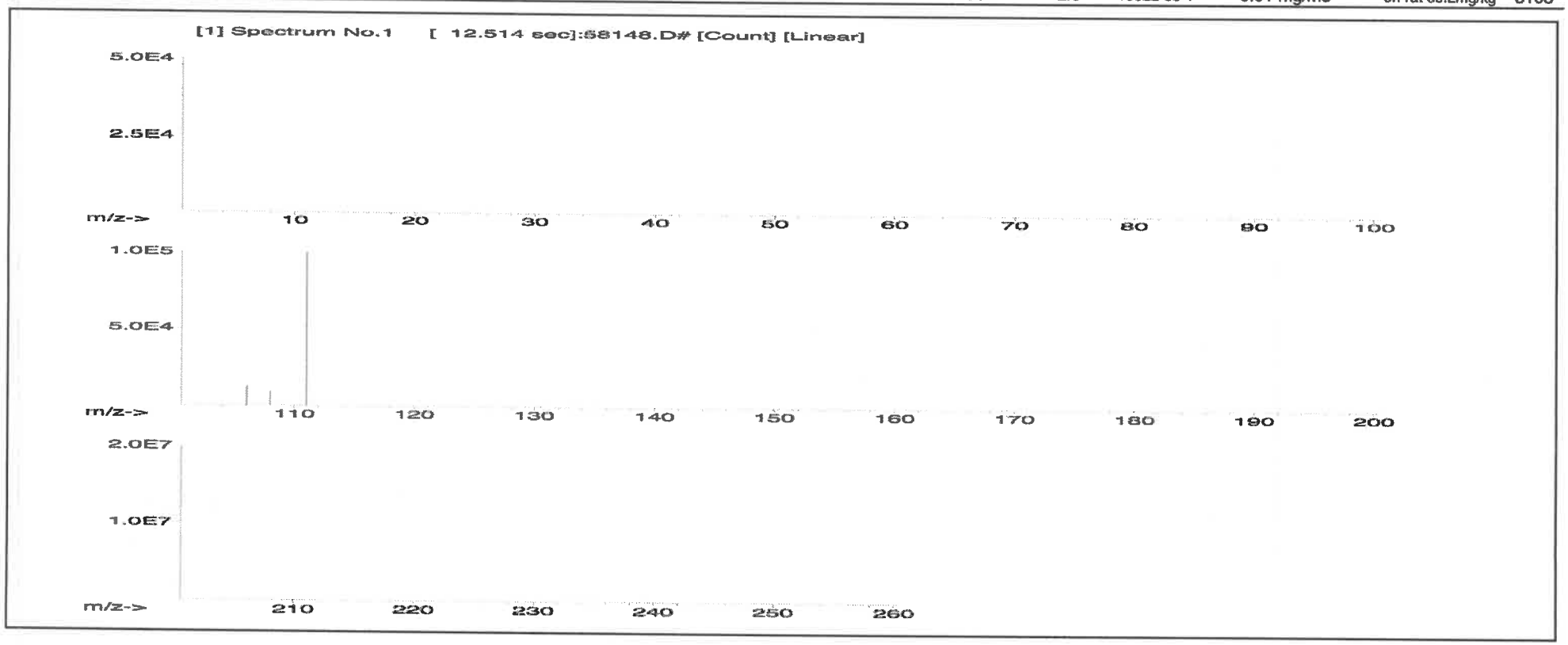
Aleah O'Brady

Formulated By:	Aleah O'Brady	070124

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



726

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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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727

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 051523
Description: Iron (Fe)

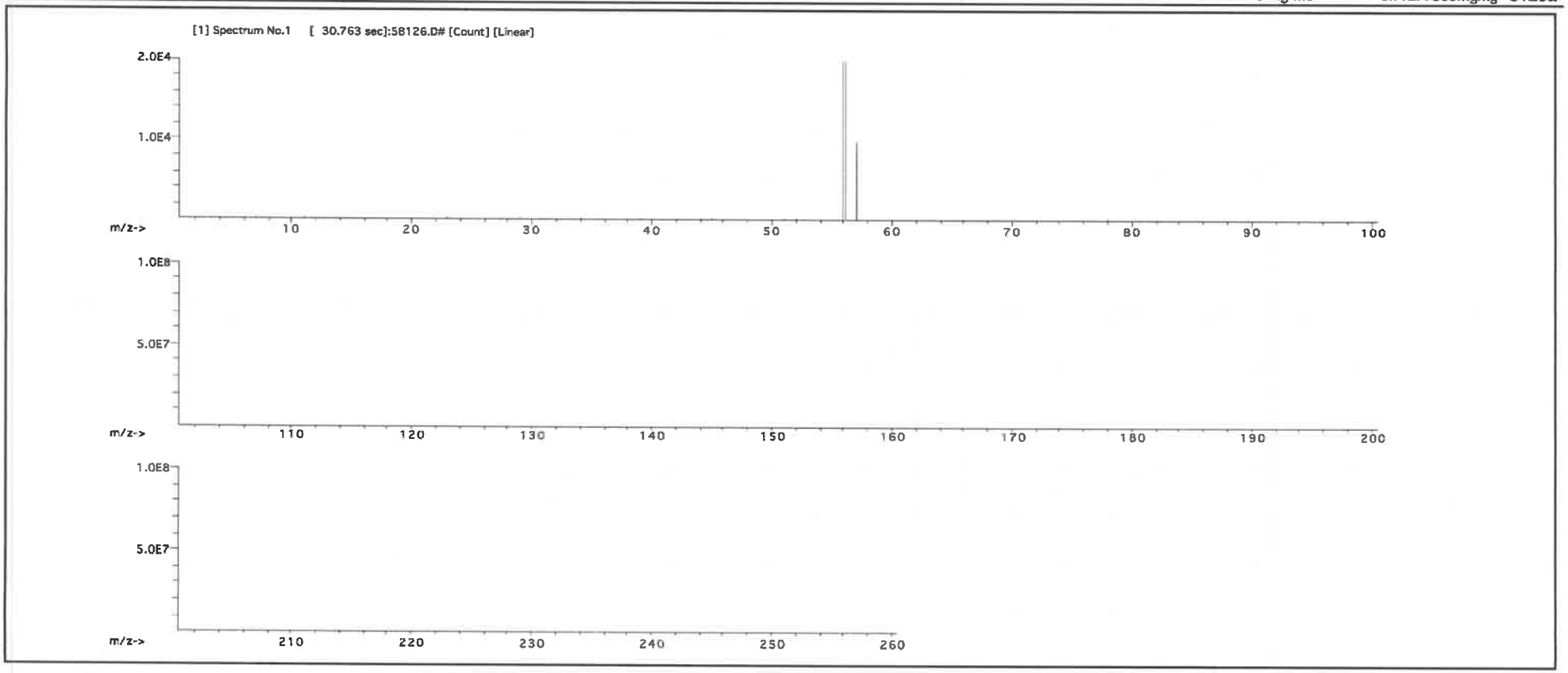
Expiration Date: 051526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 5000.1

	Lot #		
Solvent:	21110221	Nitric Acid	
5.0%	250.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	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



728

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:

* 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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729

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

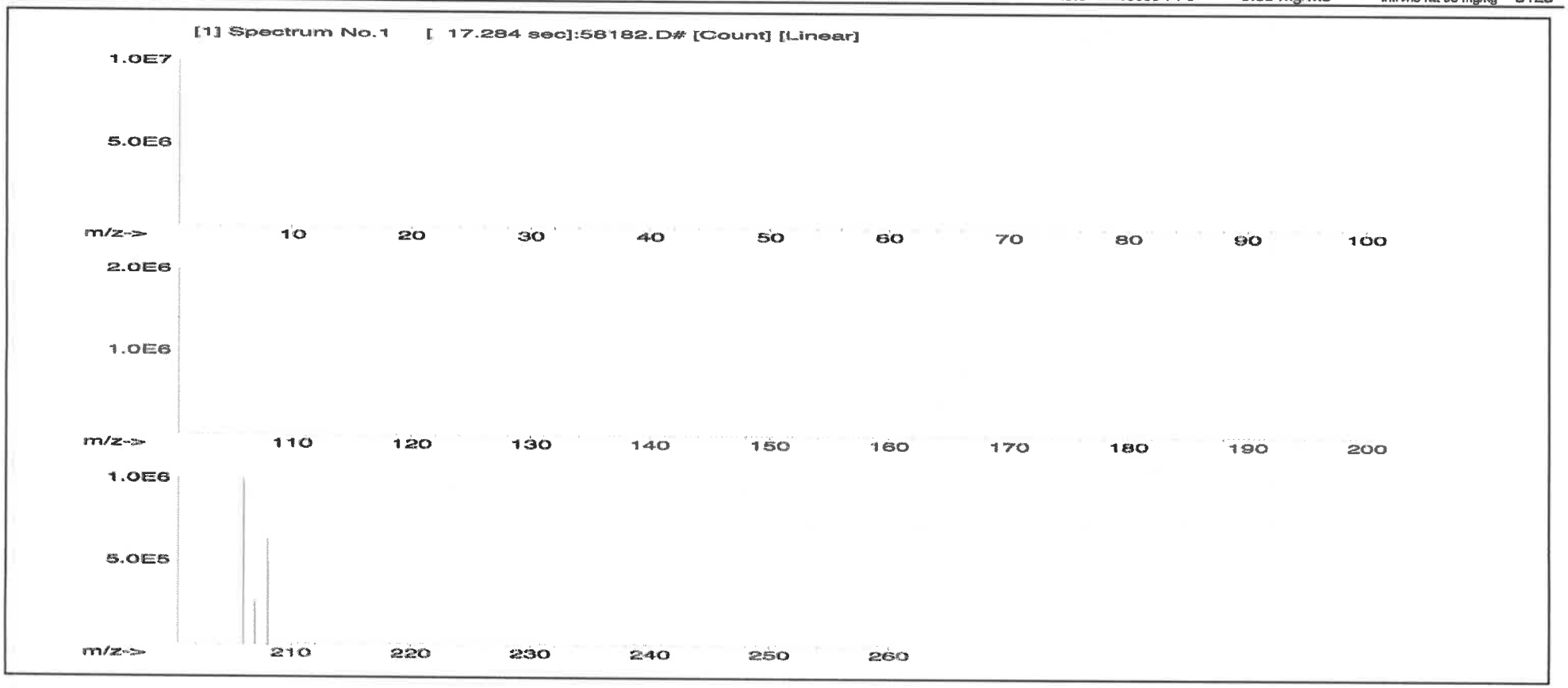
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Lawence Barry	110923
Reviewed By:	Pedro L. Rentas	110923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0040	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



730

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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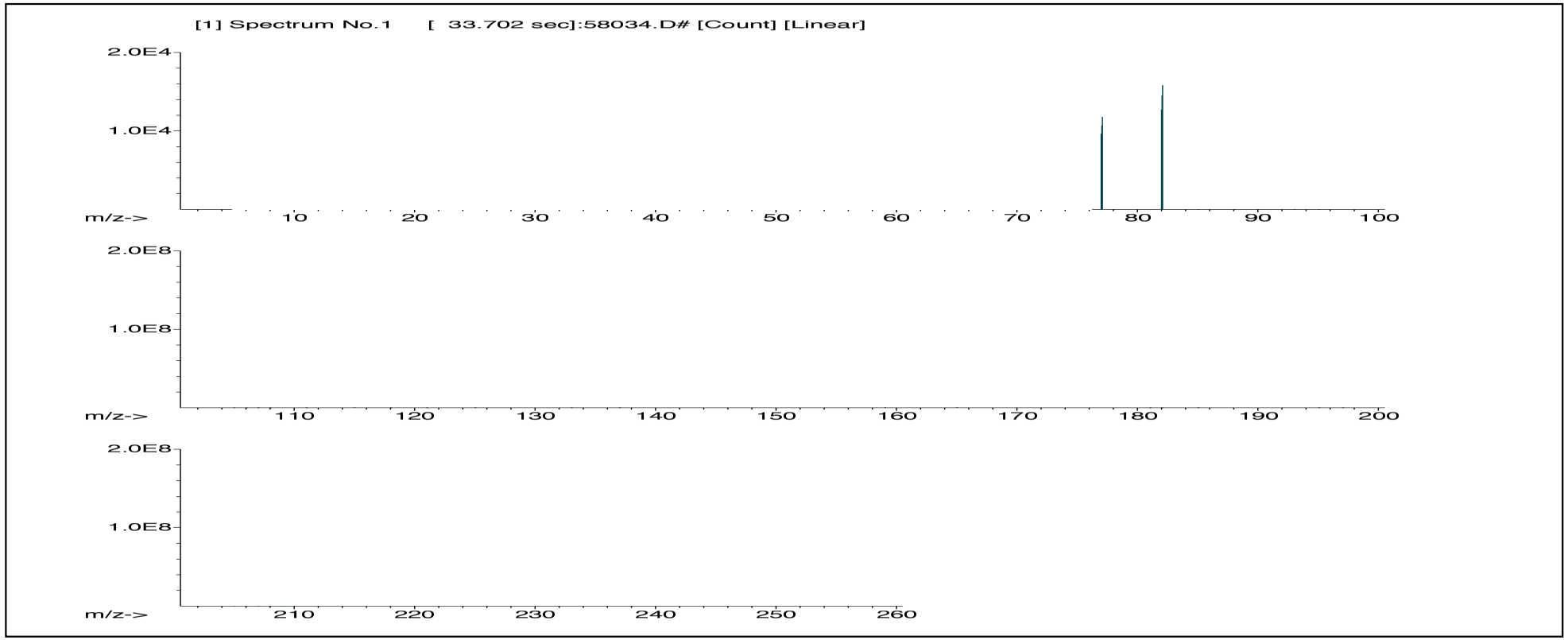
731

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
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	

Giovanni Esposito	
Formulated By:	Giovanni Esposito 070221
Pedro Rentas	
Reviewed By:	Pedro L. Rentas 070221

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(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



732

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	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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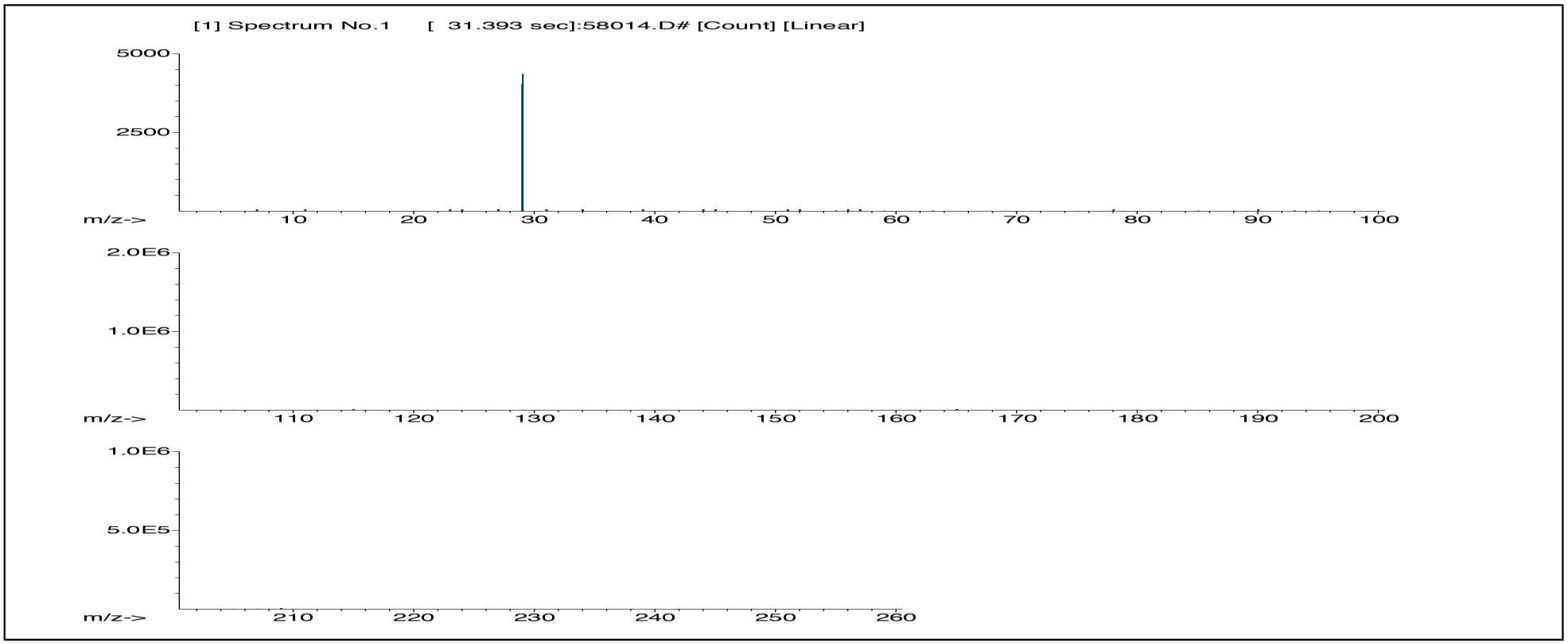
CERTIFIED WEIGHT REPORT:

733

		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

	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



734

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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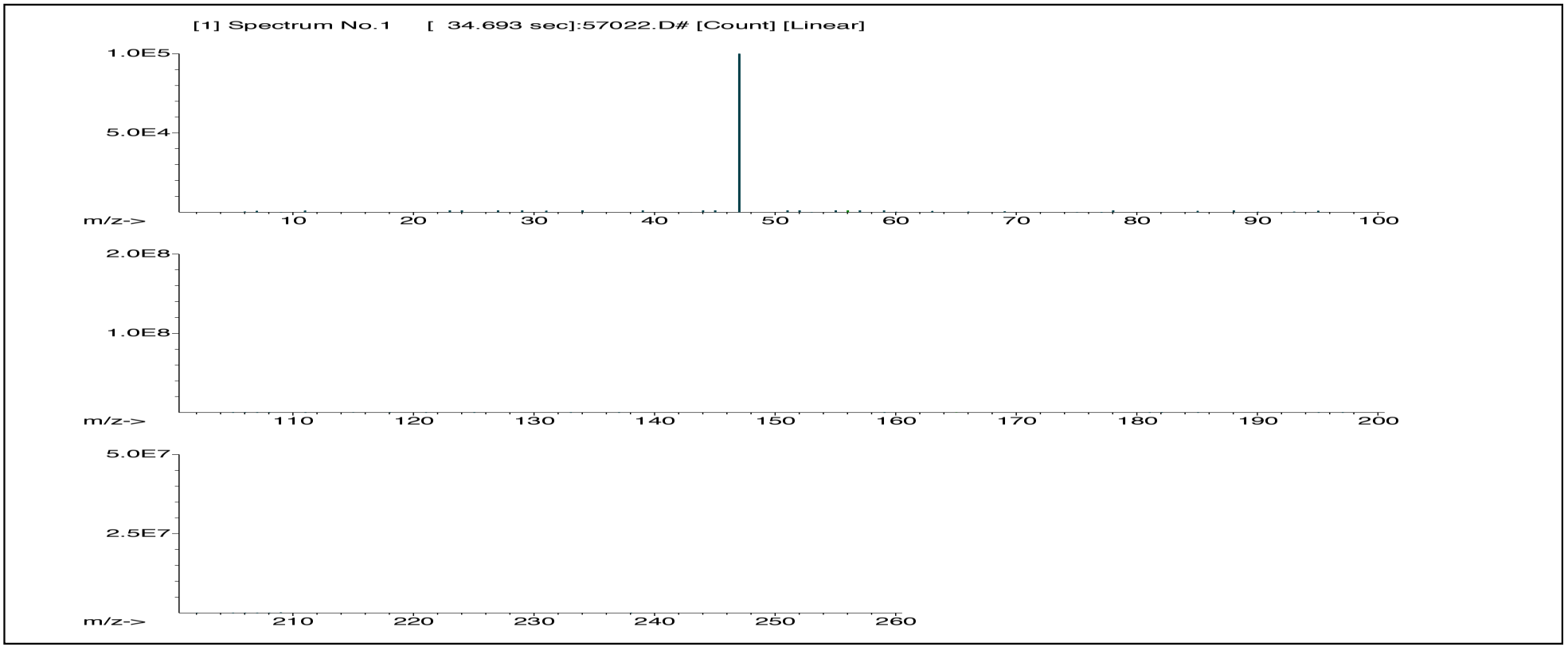
735

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



736

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:

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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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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M5192 R: 06/17/22

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737

CERTIFIED WEIGHT REPORT:

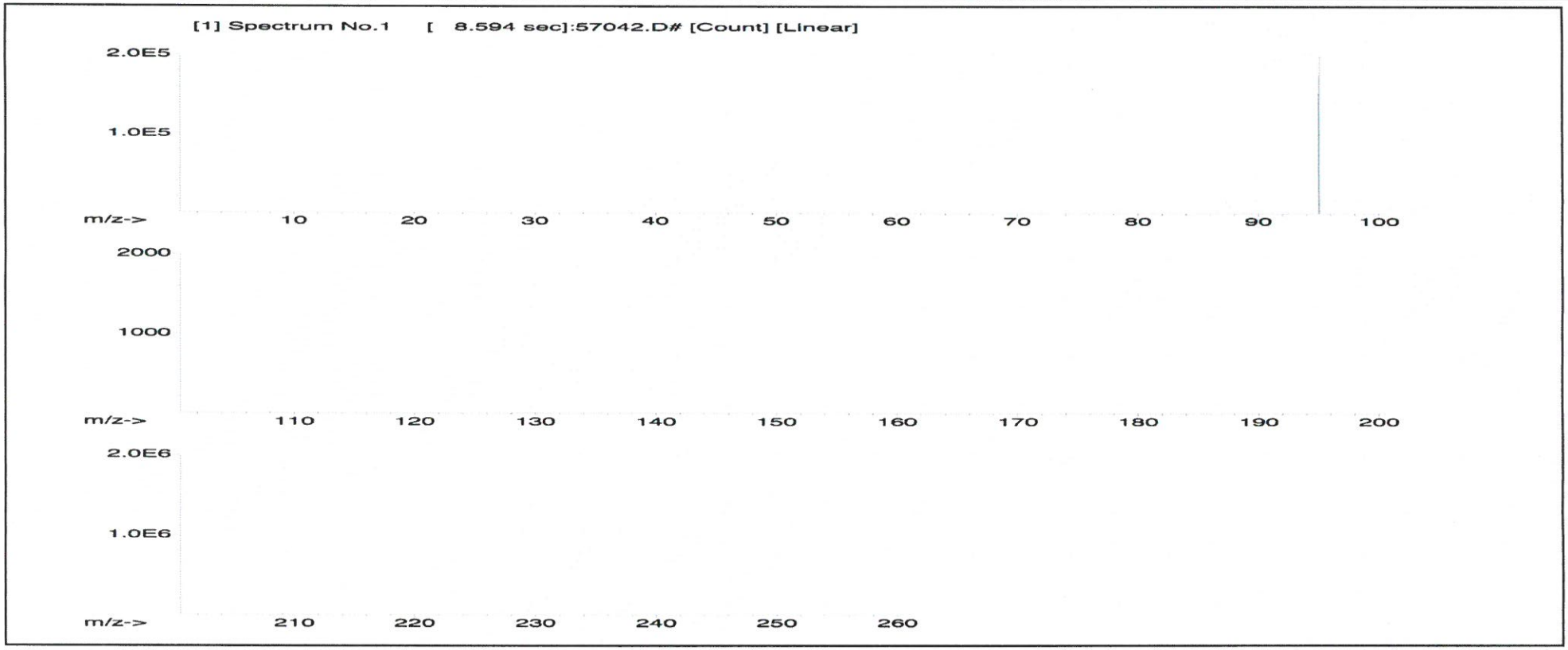
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

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

	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



738

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



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M529 R: 07/05/22 BH

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739

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57092**	20370011	Nitric Acid		
Lot Number:	**073021**				
Description:	**Uranium (U)**	2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	073024				
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		

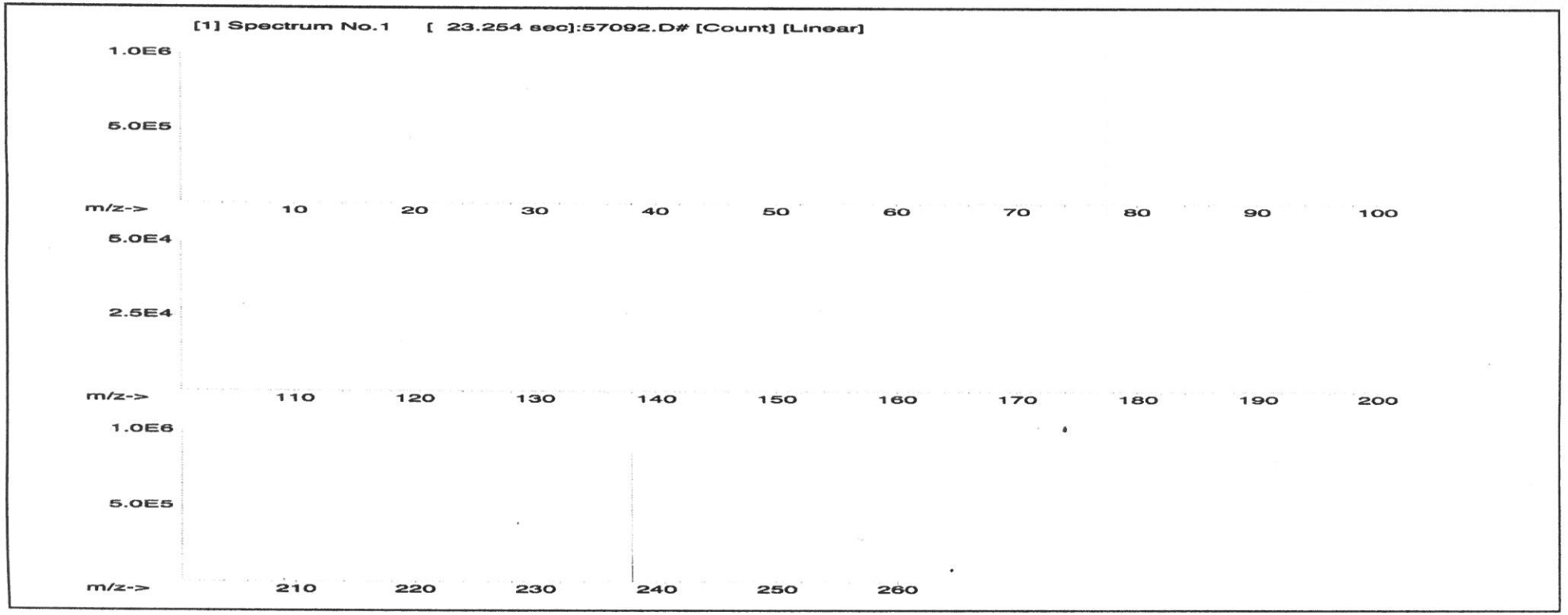
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

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. Triuranium octoxide (U)	58192	122120	0.1000	300.0	0.084	1000	10001.1	**1000.0**	2.1	1344-59-8	0.05 mg/m3	orl-rat 100 mg/kg	3164



740

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	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:



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M5288 R: 07/21/2022

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741

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

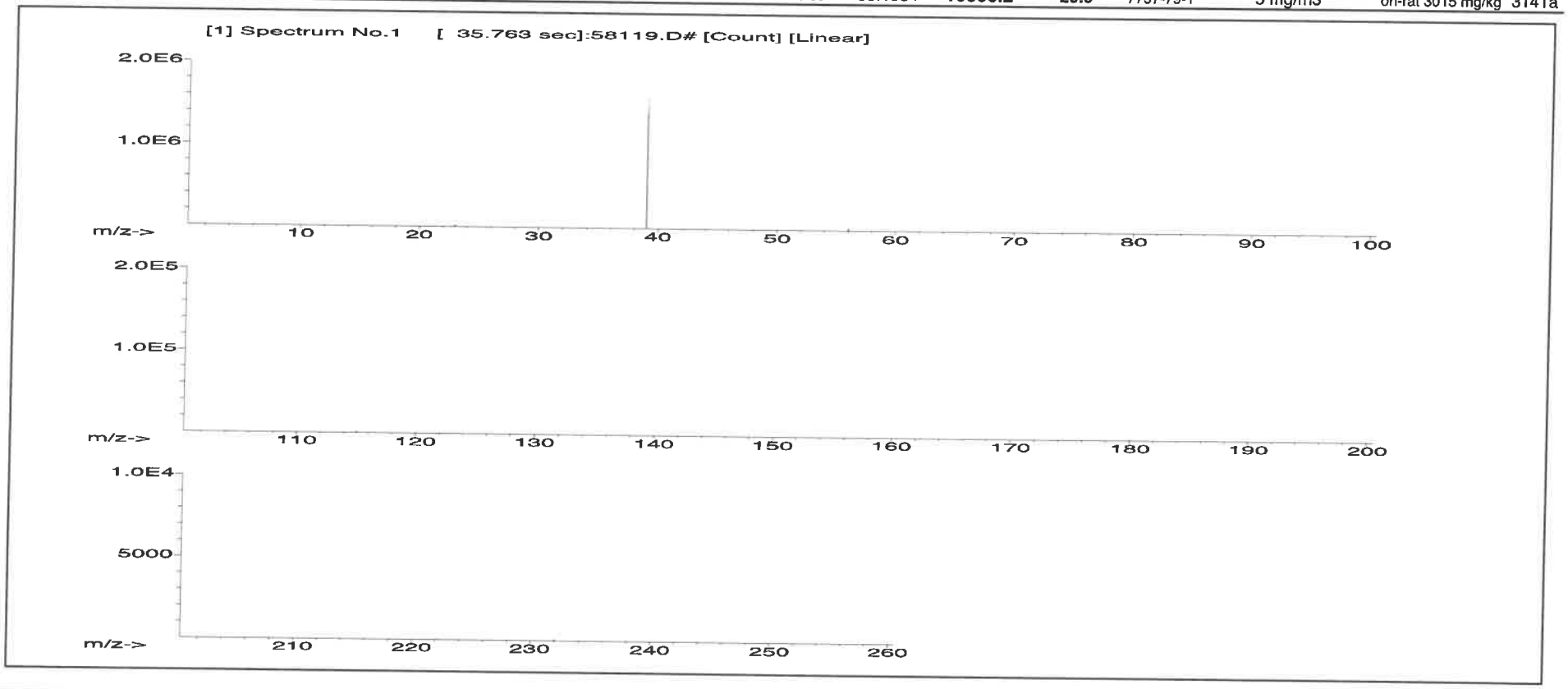
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071122
Reviewed By:	Pedro L. Rentas	071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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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M5289 R: 07/12/22 (BH)

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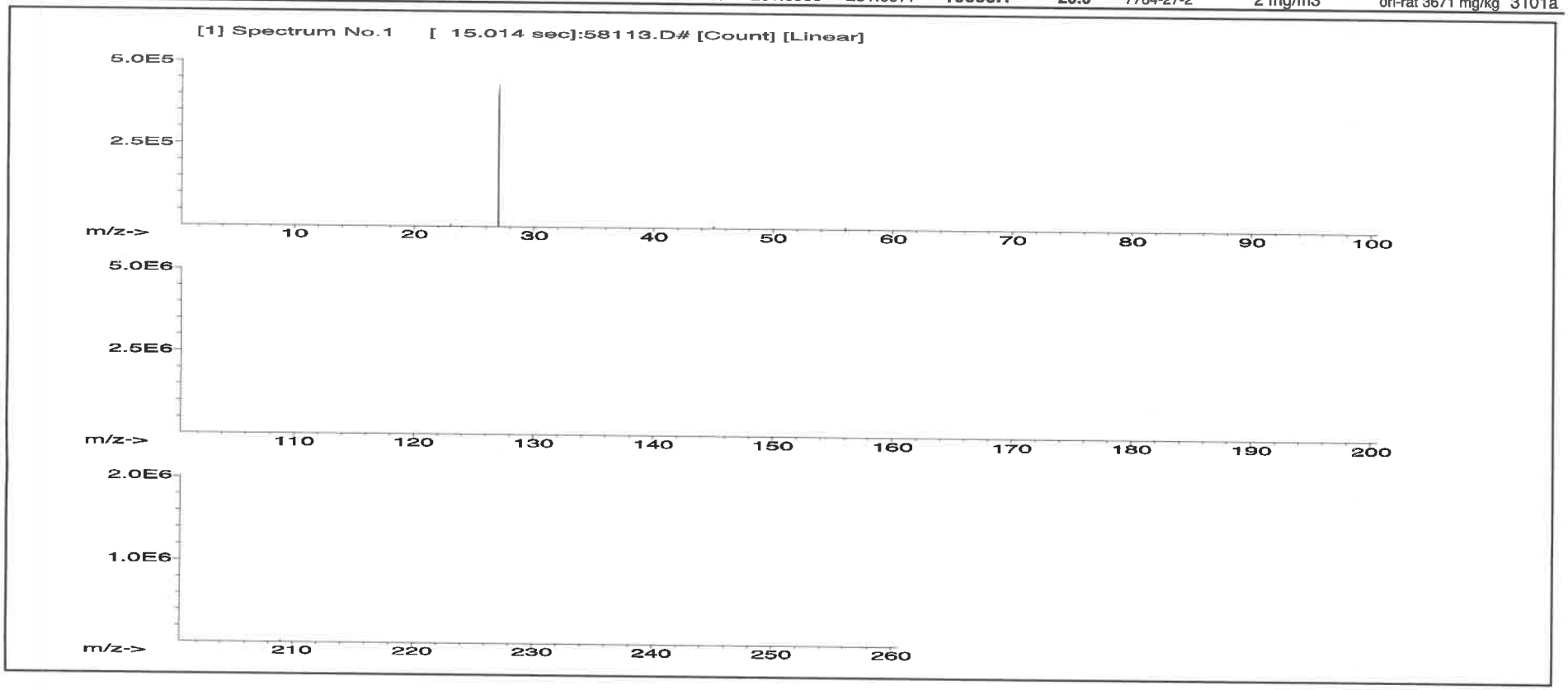
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CERTIFIED WEIGHT REPORT:

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



744

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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

M5496 R 7/20/23

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749

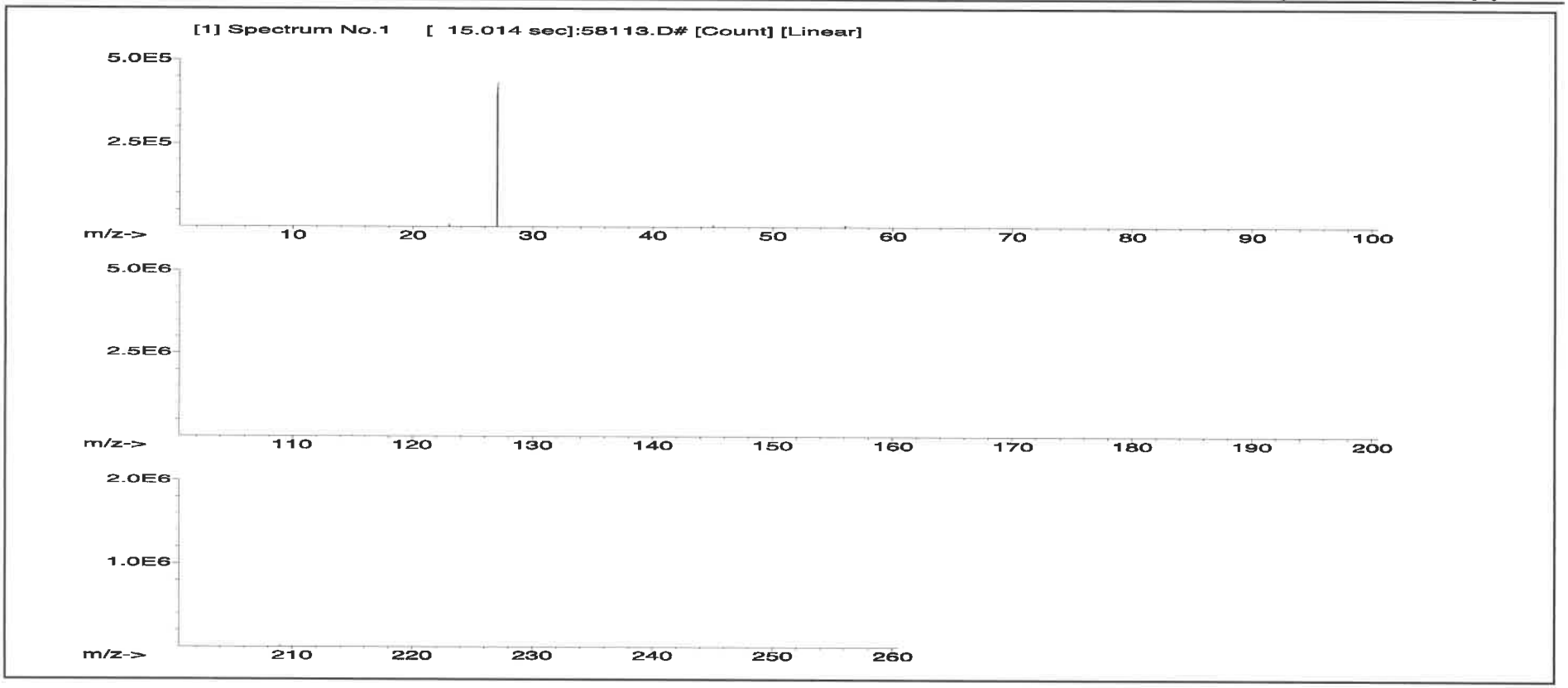
CERTIFIED WEIGHT REPORT:

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)

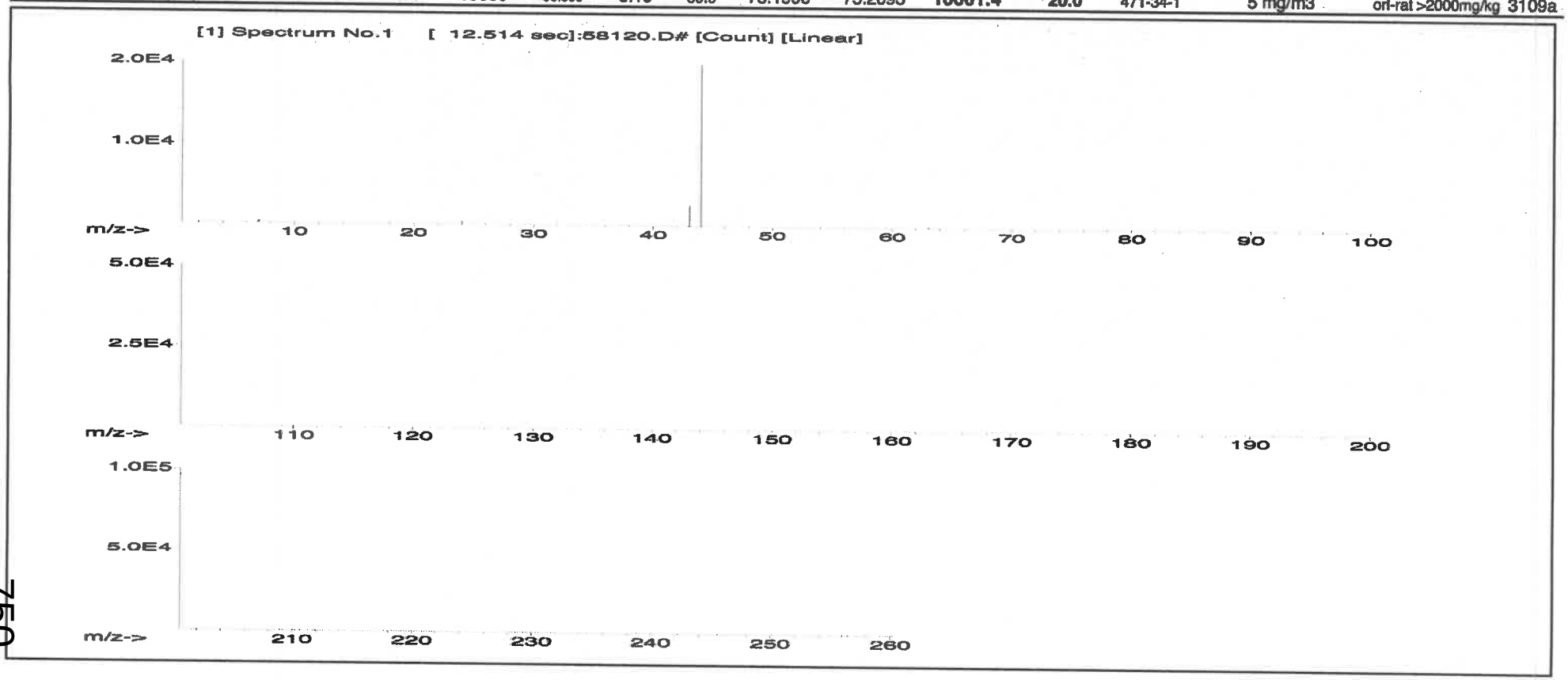
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
Reviewed By:	Pedro L. Rentas	031523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Calcium carbonate (Ca)	IN014	CAD072022A1	10000	99.999	0.10	39.9	75.1990	75.2093	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



750

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).

TGL

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Certified Reference Material CRM

MS513 R:03/17/23

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

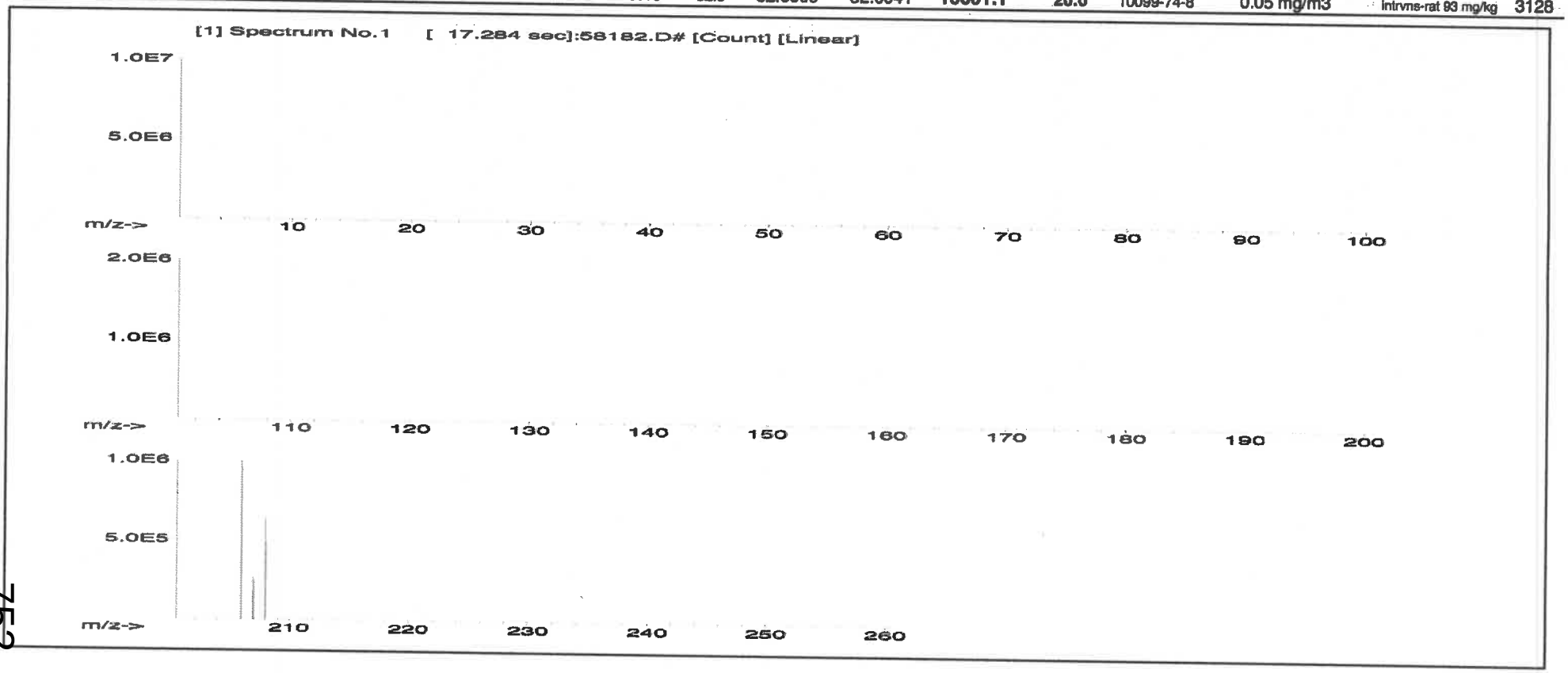
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



752

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

M5519. M5520 (BH) R:03/17/23

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754

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

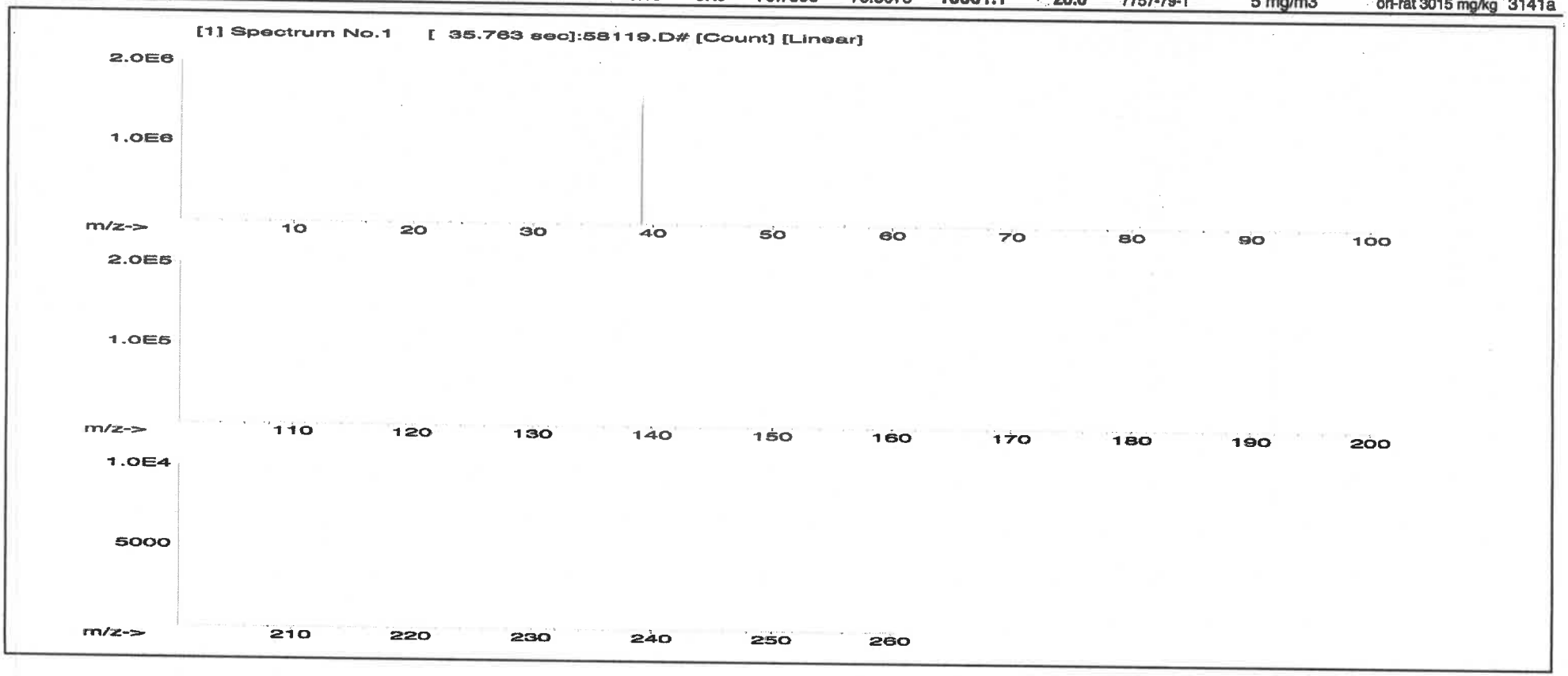
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

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



755

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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* 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

M5658 R ! 8/25/23

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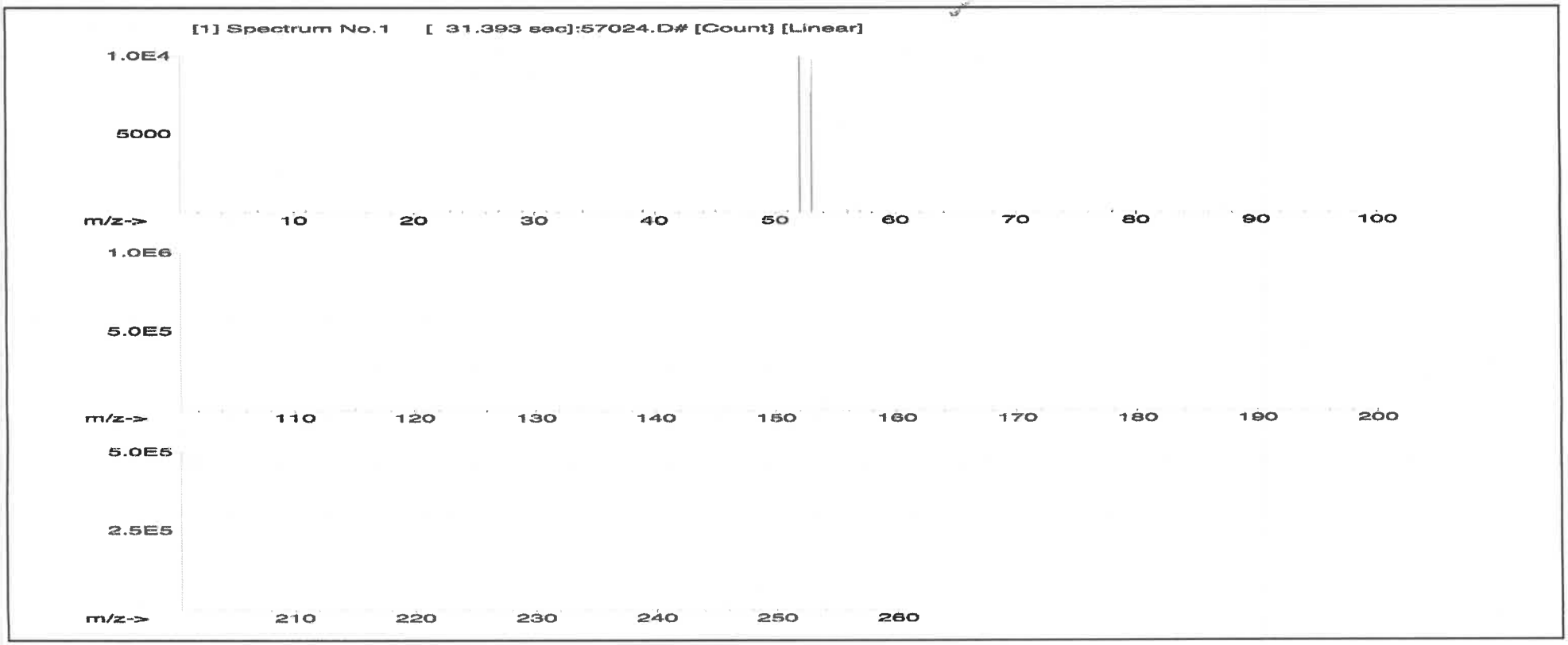
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

756

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



757

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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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 8/25/23 M5751

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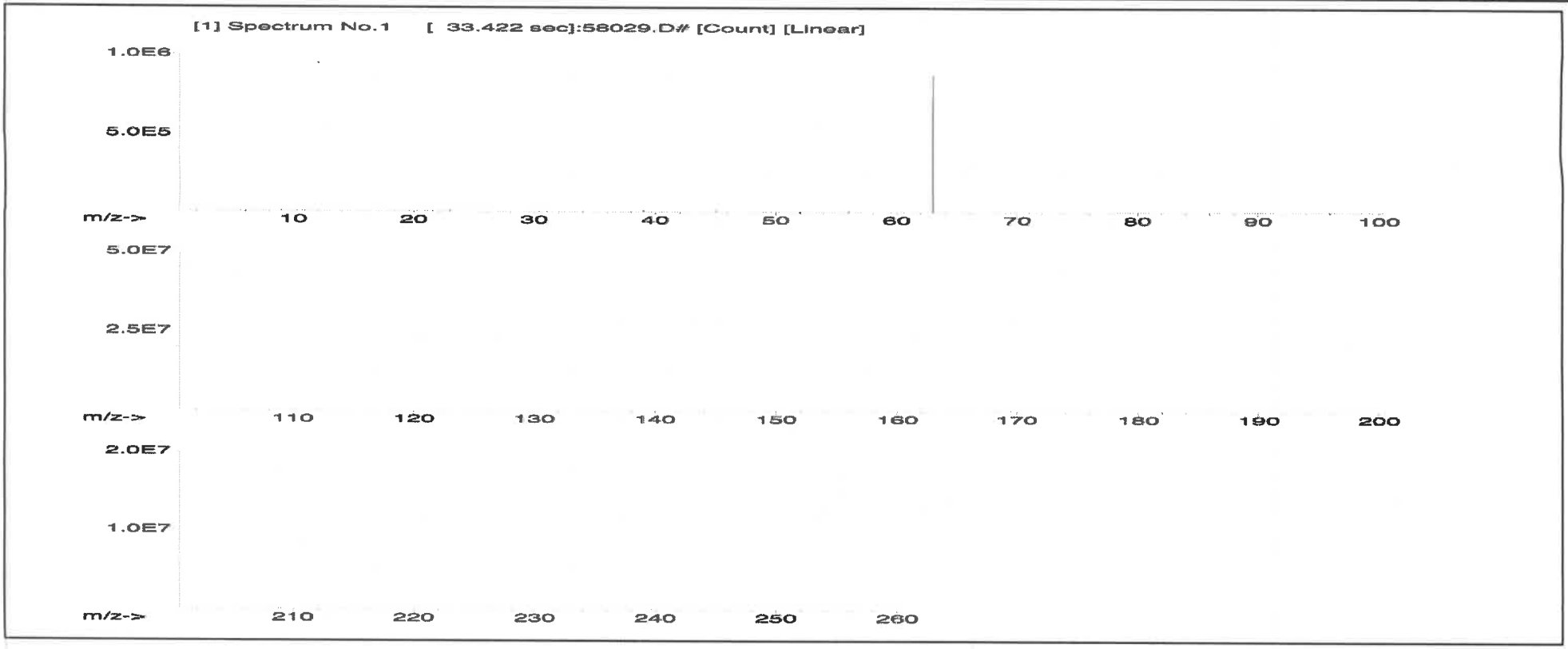
758

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



7599

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* 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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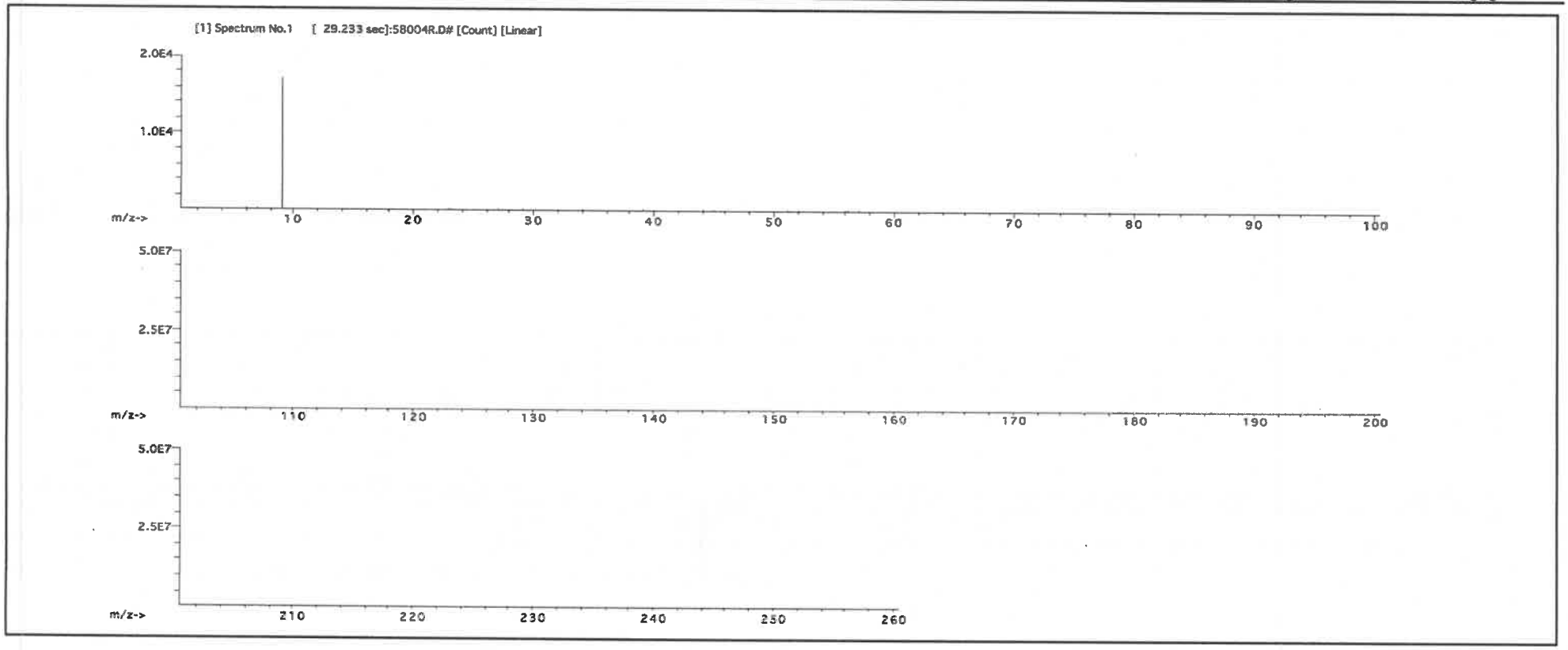
760

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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* 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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762

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

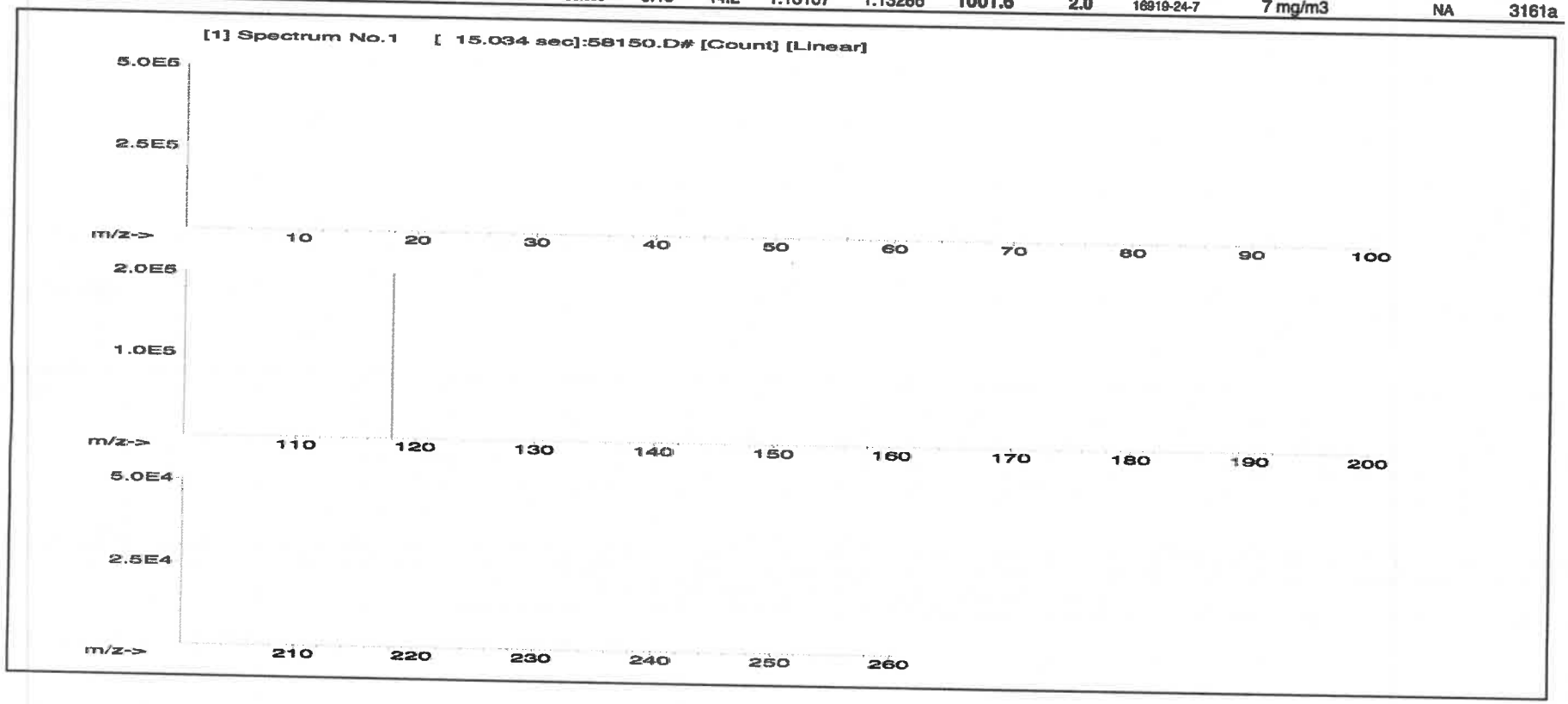
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



763

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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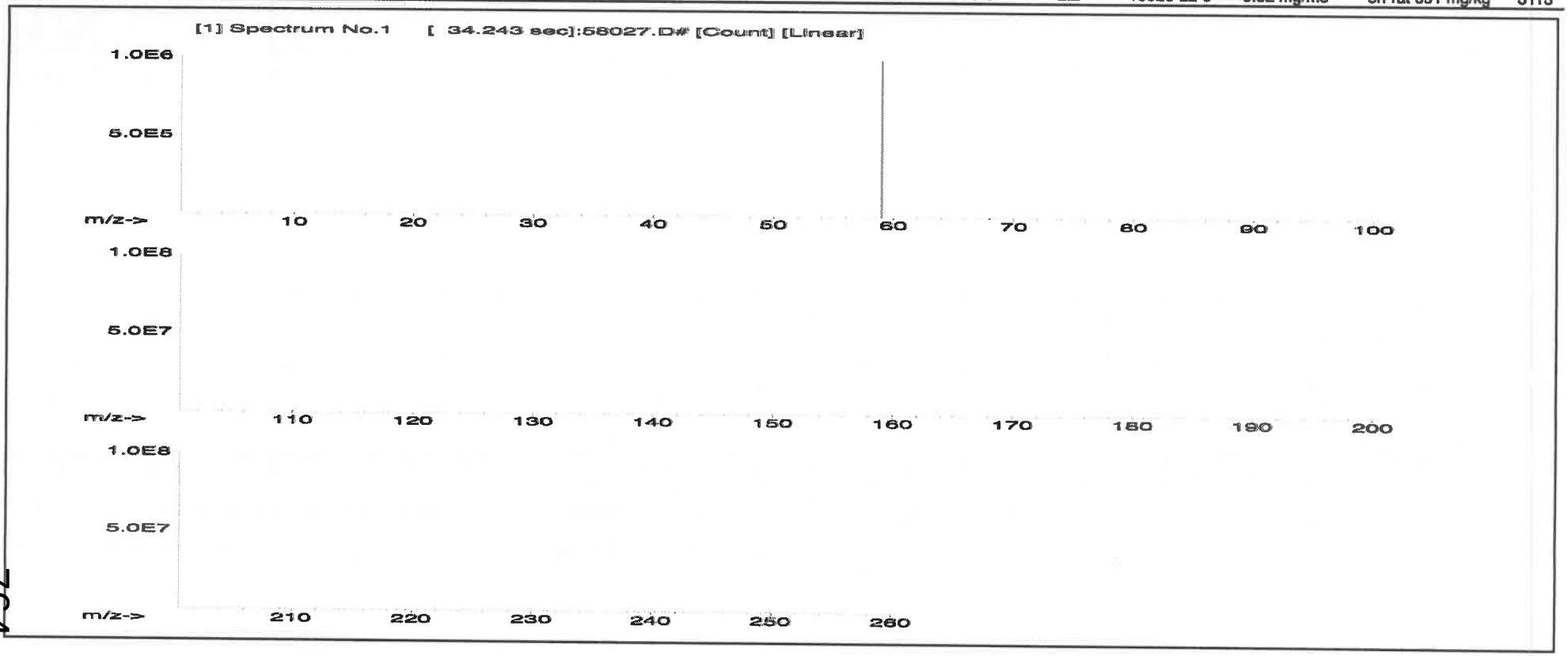
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	2.2	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



764

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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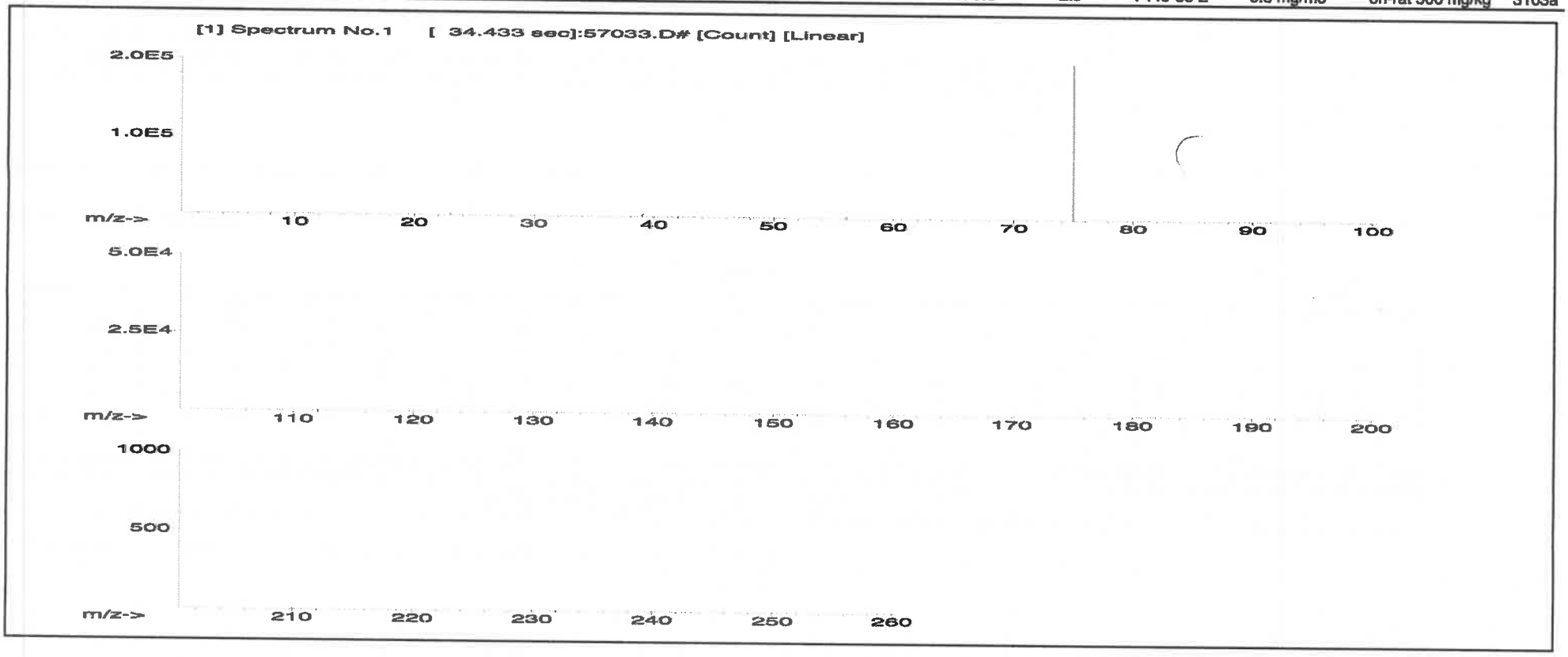
CERTIFIED **WEIGHT** REPORT:

		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

7997

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



767

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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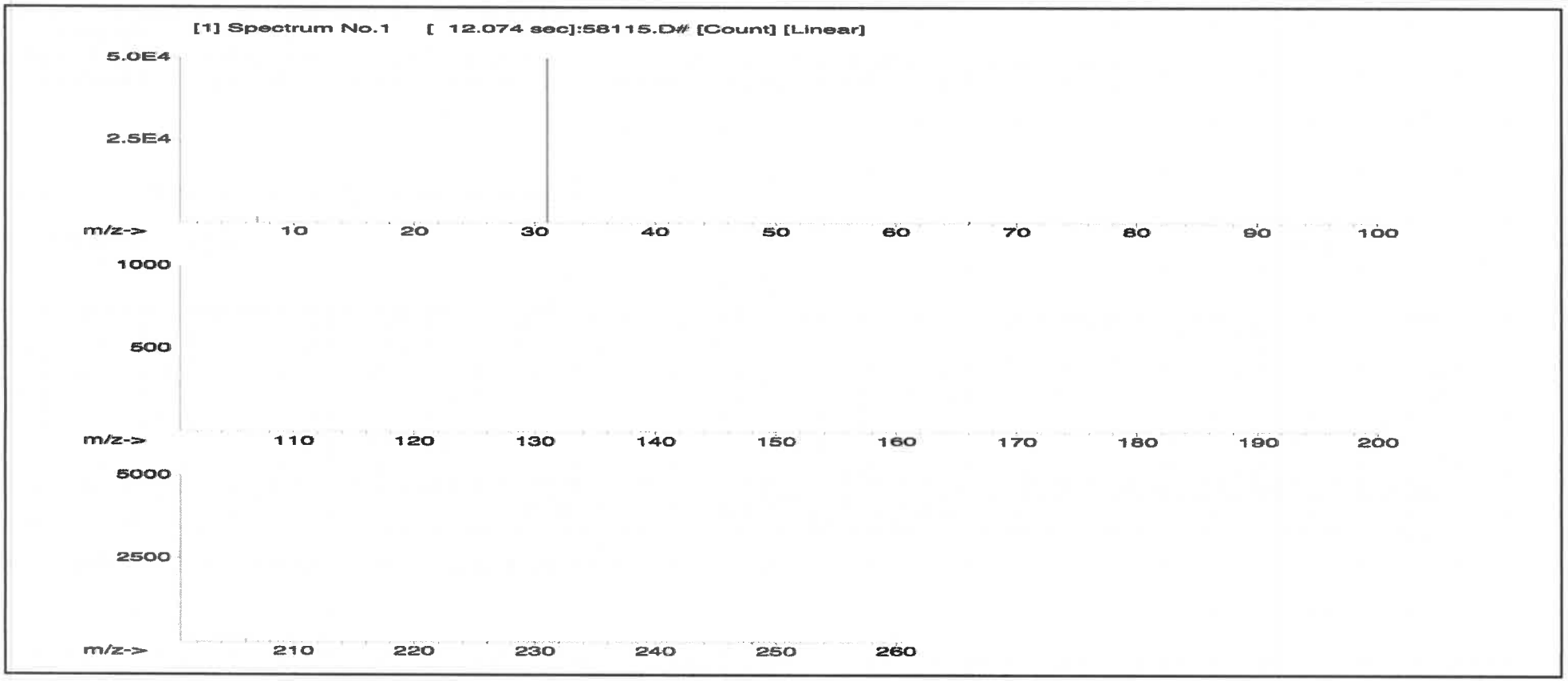
768

CERTIFIED WEIGHT REPORT:

Part Number:	**57115**		**Lot #**	
Lot Number:	**041723**	**Solvent:**	21110221	Nitric Acid
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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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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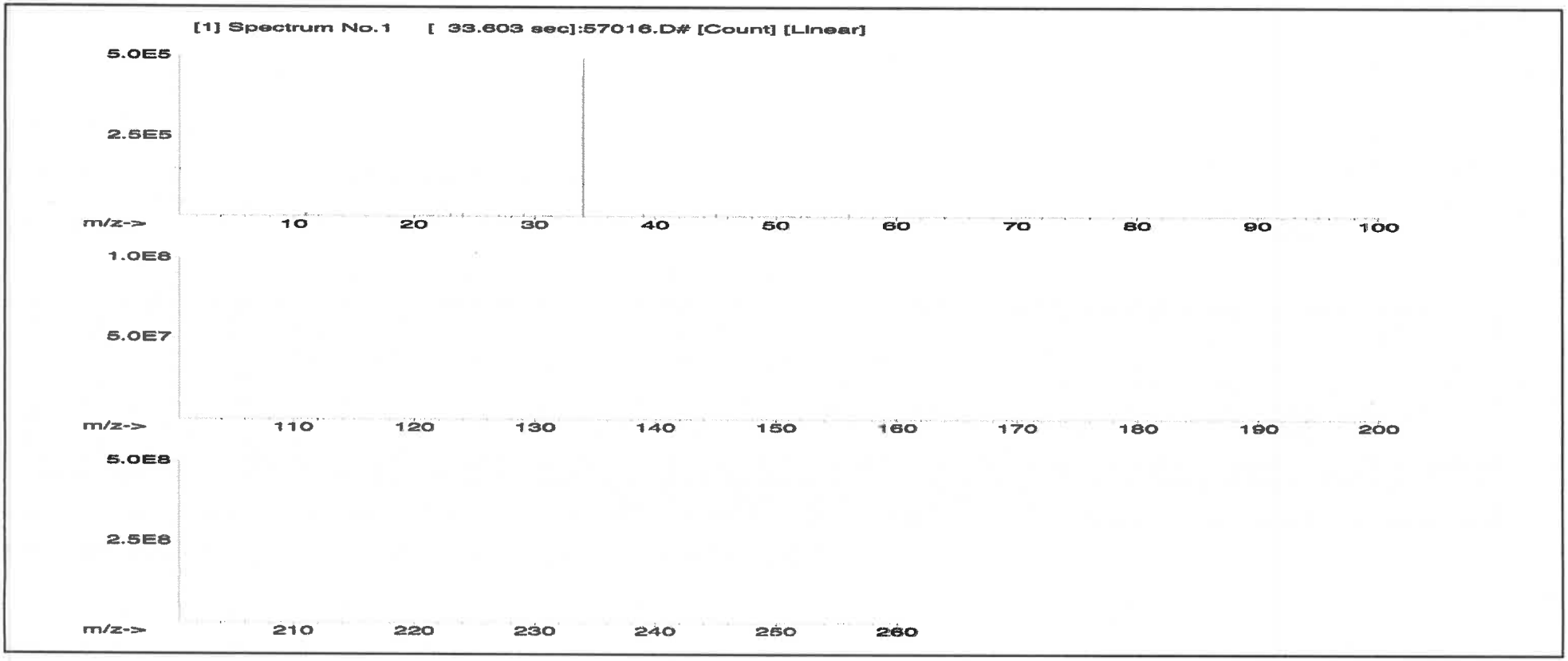
770

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



771

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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772

CERTIFIED WEIGHT REPORT:

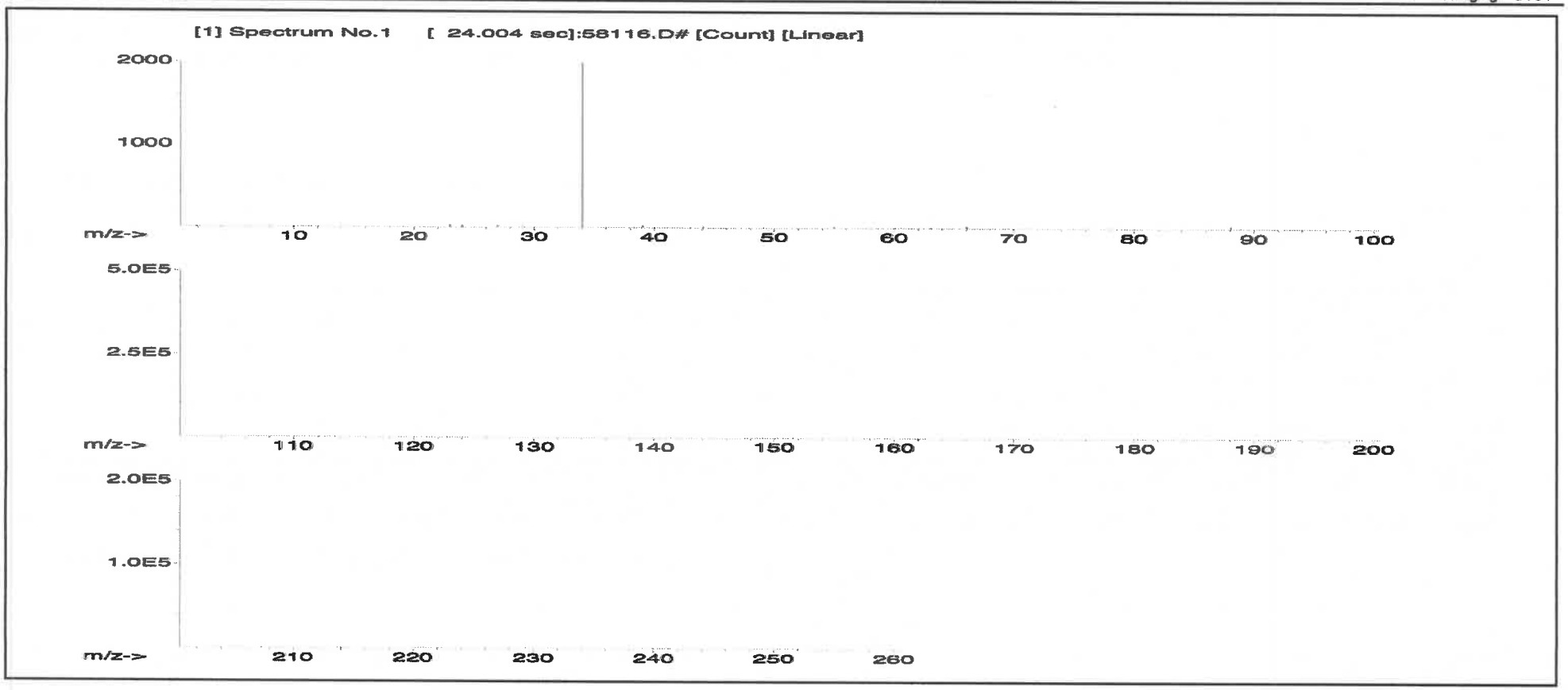
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



773

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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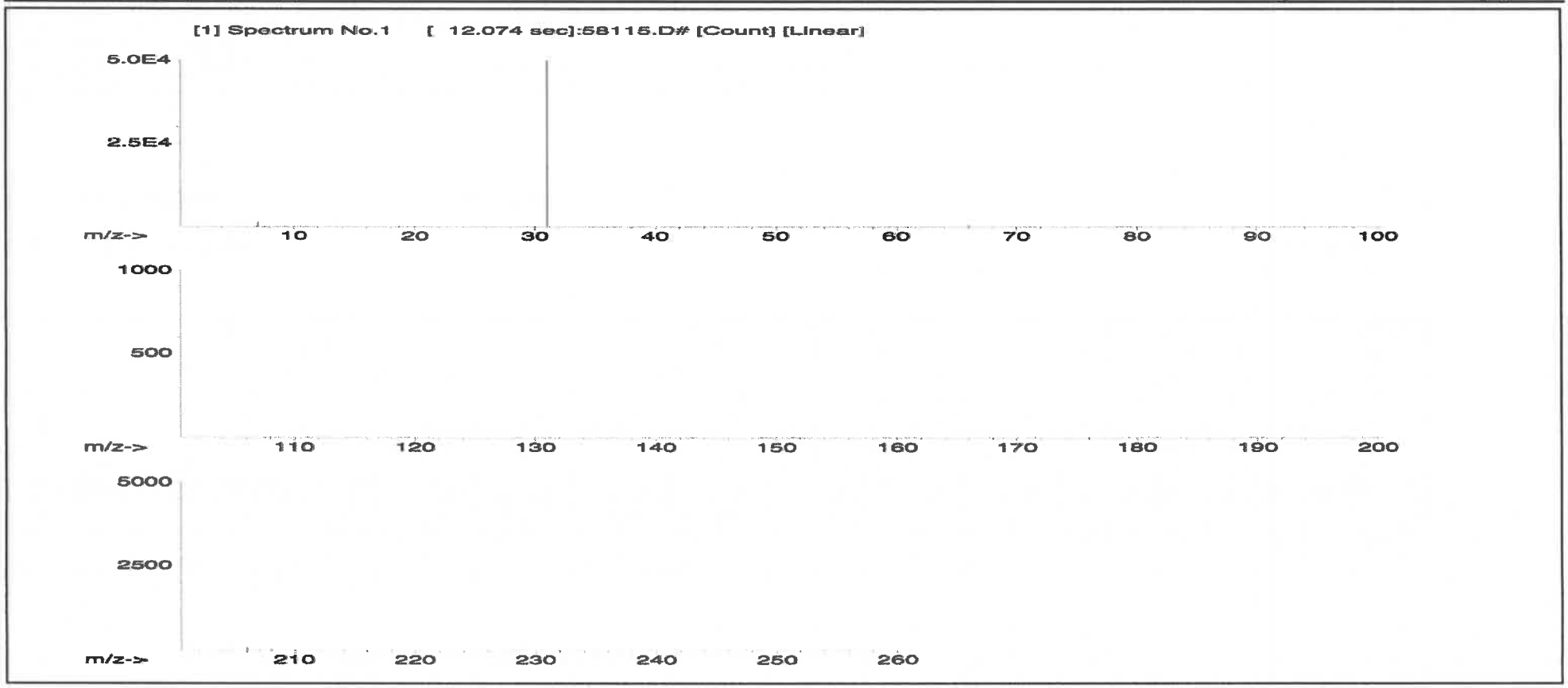
774

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



775

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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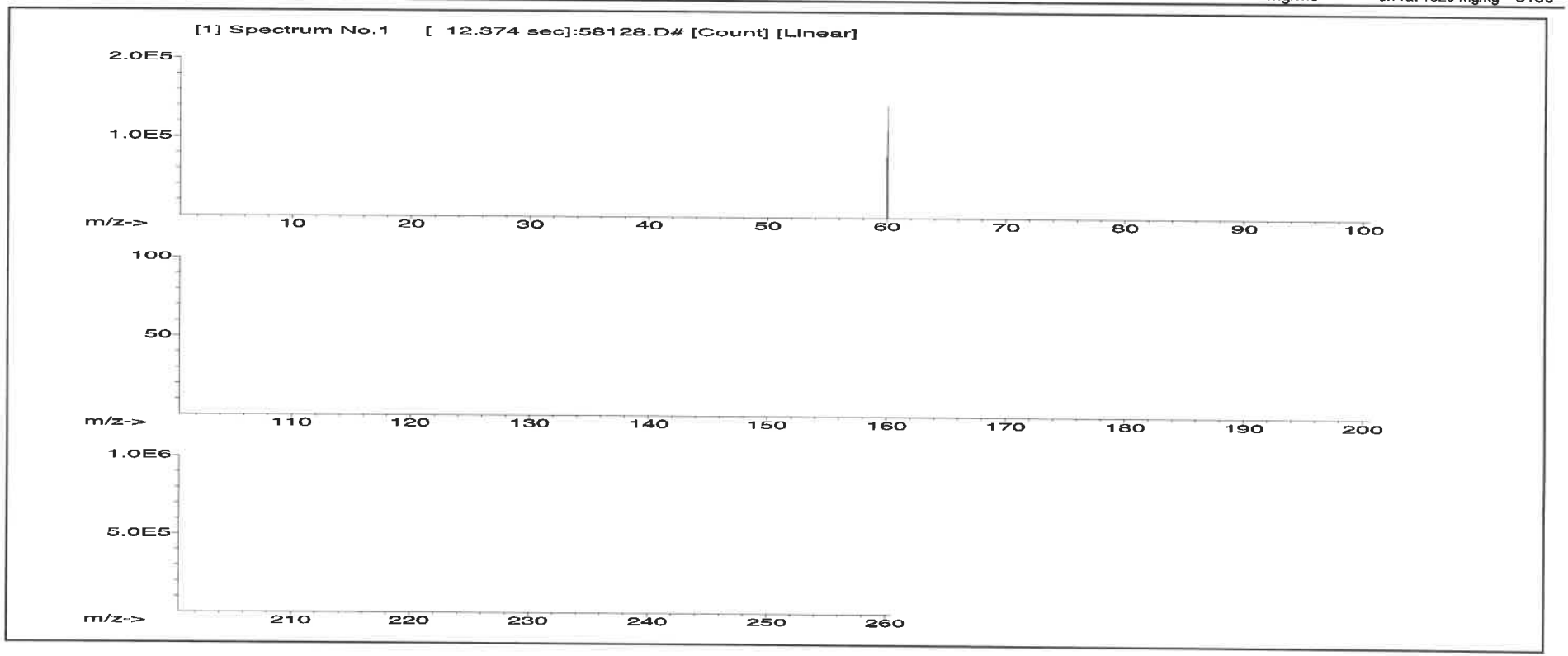
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CERTIFIED WEIGHT REPORT:

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



776

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).

777

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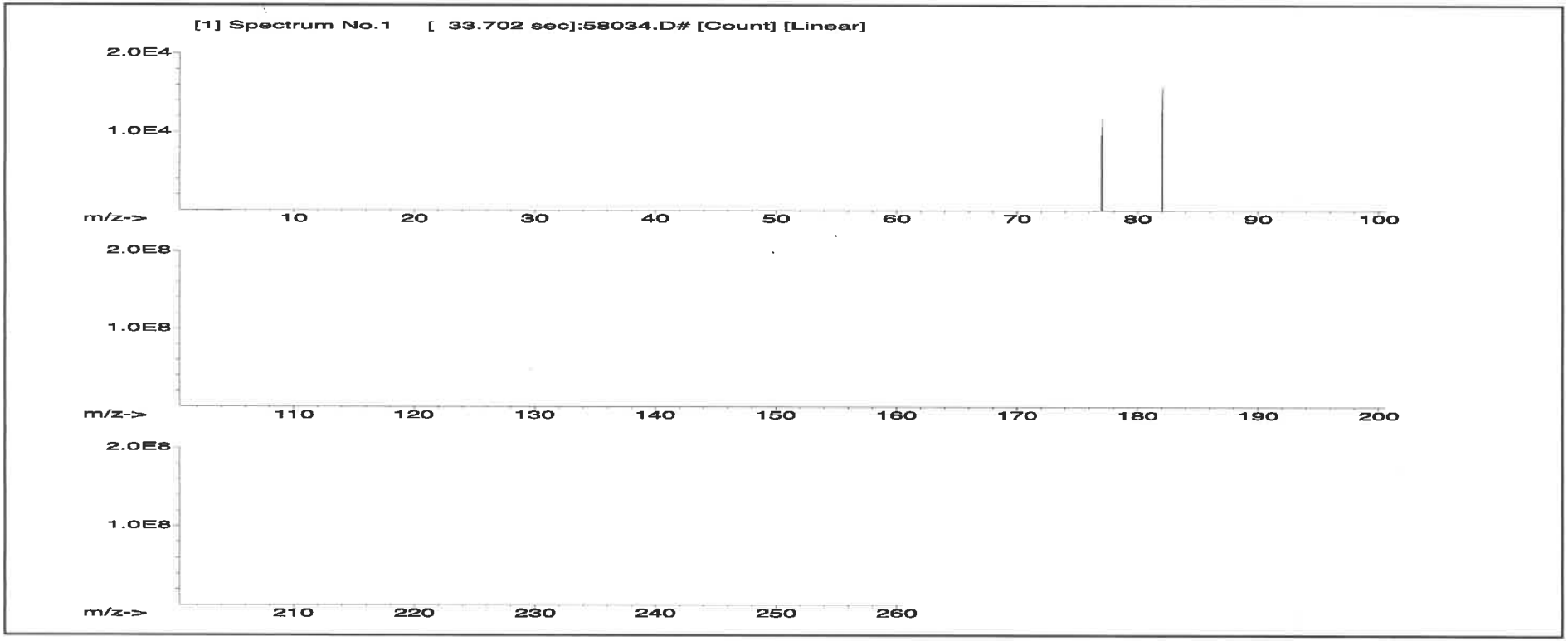
778

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



779

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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* 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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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO1
Lot Number:	T2-MO720876
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	1 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 998 ± 7 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.000879	M	Se	<	0.008000	M	Zn		0.000598
M	Al		0.000563	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.000175				
M	Ba		0.001689	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.006334	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Tl	<	0.032000				
M	Ce	<	0.008300	M	K		0.130213	M	Rb		0.004575	M	Tl		0.001266				
M	Co		0.000598	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.000527	O	Li		0.000059	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.000527	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.002252	M	Mg		0.000563	i	S	<		M	W		0.087982				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.001513	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 17, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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M5978, M5979

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\,(u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (\bar{x}_a)\,(u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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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 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		

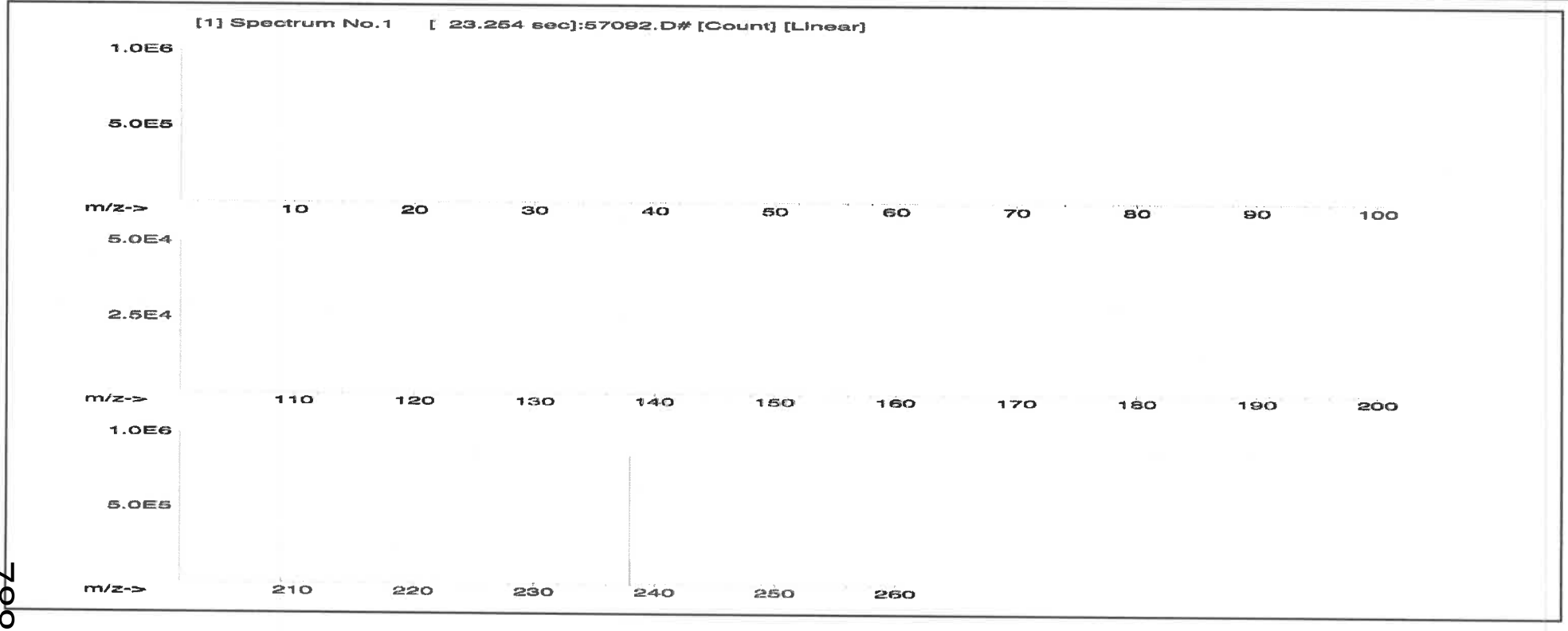
Giovanni Esposito

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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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-SPK-1
Lot Number:	T2-MEB721963
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt, 250 µg/mL ea: Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 000 ± 7 µg/mL	Barium, Ba	2 000 ± 9 µg/mL
Beryllium, Be	50.00 ± 0.26 µg/mL	Chromium, Cr	200.0 ± 1.1 µg/mL
Cobalt, Co	500.0 ± 2.4 µg/mL	Copper, Cu	250.0 ± 1.0 µg/mL
Iron, Fe	1 000 ± 4 µg/mL	Manganese, Mn	500.0 ± 2.0 µg/mL
Nickel, Ni	500.0 ± 2.2 µg/mL	Silver, Ag	50.00 ± 0.22 µg/mL
Vanadium, V	500.0 ± 2.2 µg/mL	Zinc, Zn	500.0 ± 2.2 µg/mL

Density: 1.070 g/mL (measured at 20 ± 4 °C)

Assay Information:

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ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

R 8/19/24, M60055

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-STOCK-12
Lot Number:	U2-MEB734294
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Barium, Ba	10.01 ± 0.04 µg/mL	Beryllium, Be	10.01 ± 0.05 µg/mL
Bismuth, Bi	10.01 ± 0.06 µg/mL	Cerium, Ce	10.01 ± 0.04 µg/mL
Cobalt, Co	10.01 ± 0.05 µg/mL	Indium, In	10.01 ± 0.04 µg/mL
Lead, Pb	10.00 ± 0.04 µg/mL	Lithium, Li	10.01 ± 0.04 µg/mL
Nickel, Ni	10.01 ± 0.04 µg/mL	Uranium, U	10.01 ± 0.05 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Bi	ICP Assay	3106	180815
Ce	ICP Assay	3110	160830
Ce	EDTA	928	928
Ce	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Calculated		See Sec. 4.2
Li	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- June 21, 2028

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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

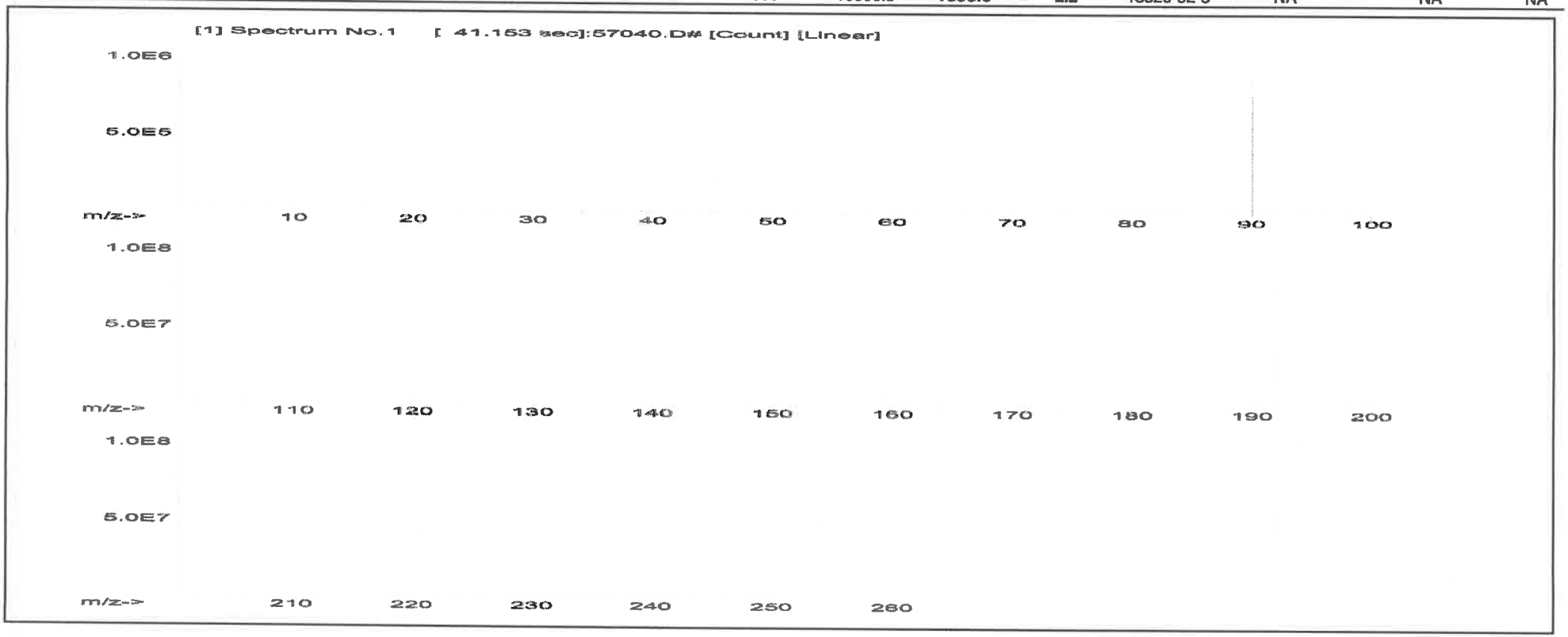
798

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



799

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 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

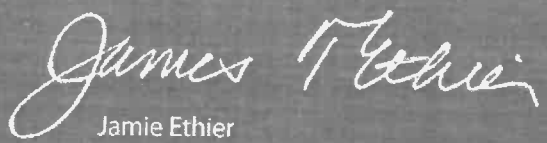
800

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

801

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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www.absolutestandards.com

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804

CERTIFIED WEIGHT REPORT:

R→ 1/13/25

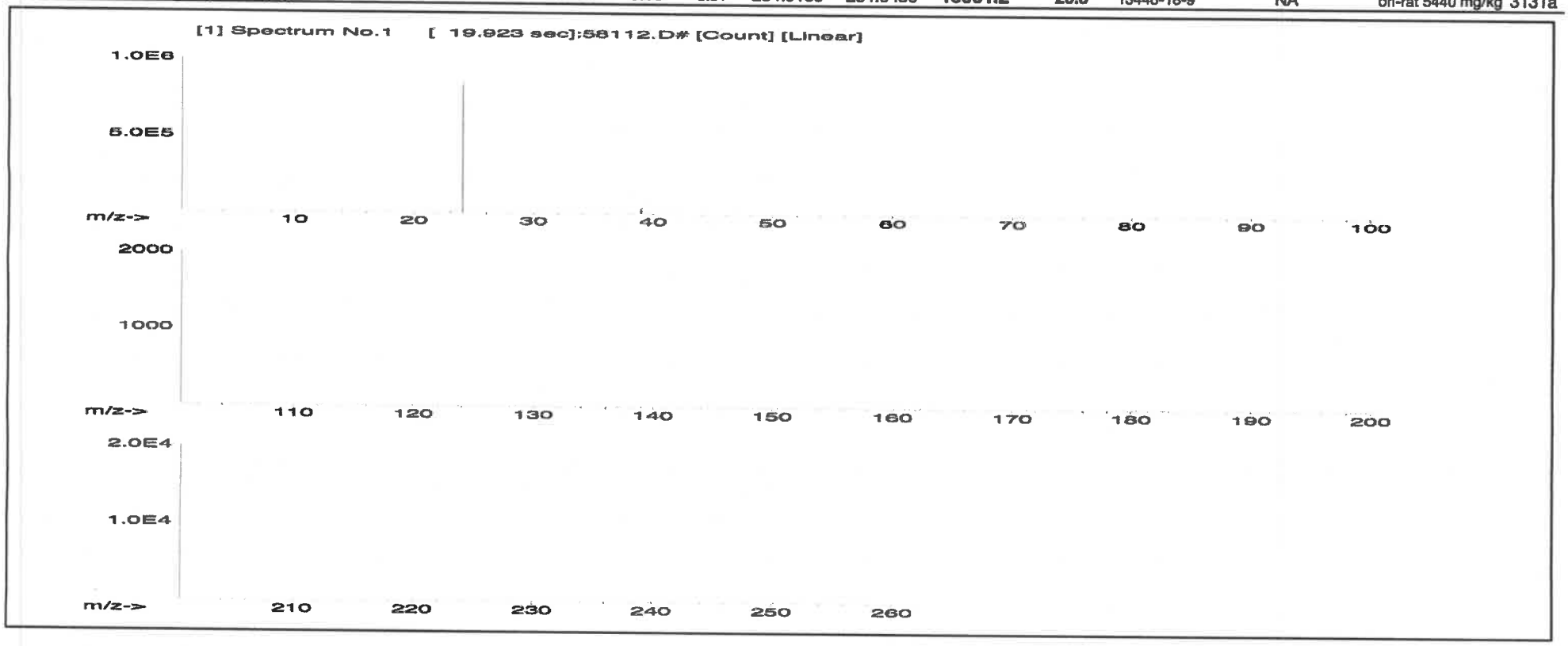
M 6127

Part Number:	**58112**		**Lot #**	
Lot Number:	**112124**	**Solvent:**	24012496	Nitric Acid
Description:	**Magnesium (Mg)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	112127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112124
Reviewed By:	Pedro L. Rentas	112124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Magnesium nitrate hexahydrate (Mg)	IN030	MGD052023A1	10000	99.999	0.10	8.51	234.9183	234.9459	**10001.2**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



805

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:

* 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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806

CERTIFIED WEIGHT REPORT:

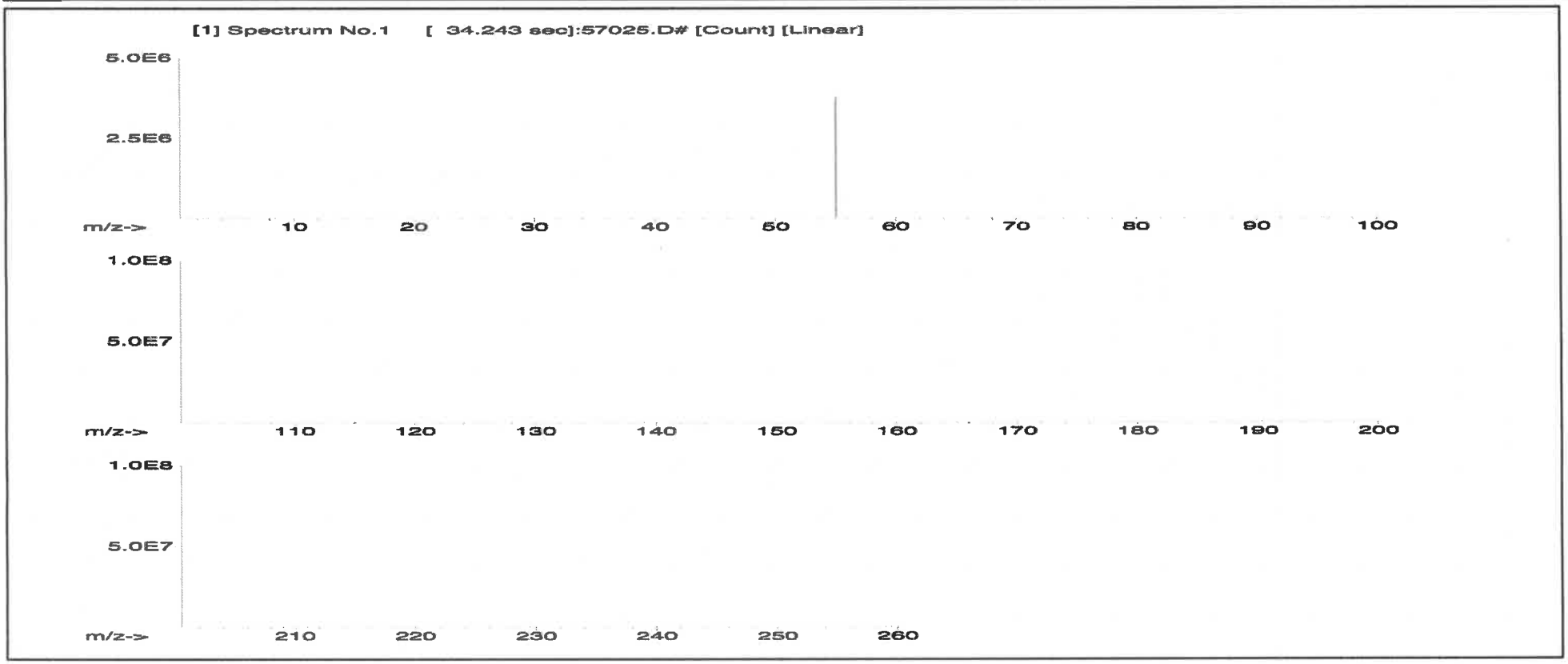
R->1/13/25
M6128

Part Number:	**58025**	**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**			
Description:	**Manganese (Mn)**	2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	101124
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



807

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	T	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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808

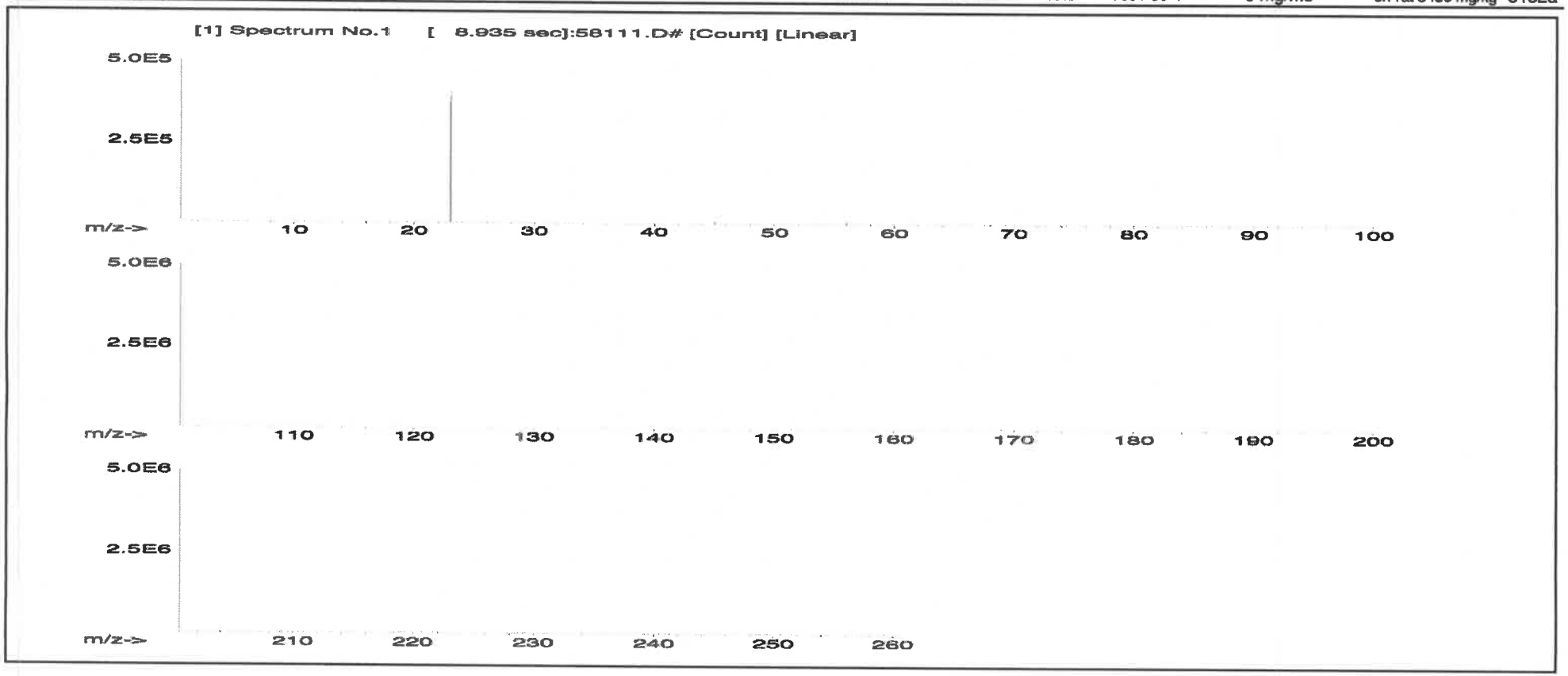
CERTIFIED WEIGHT REPORT:

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



809

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	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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810

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

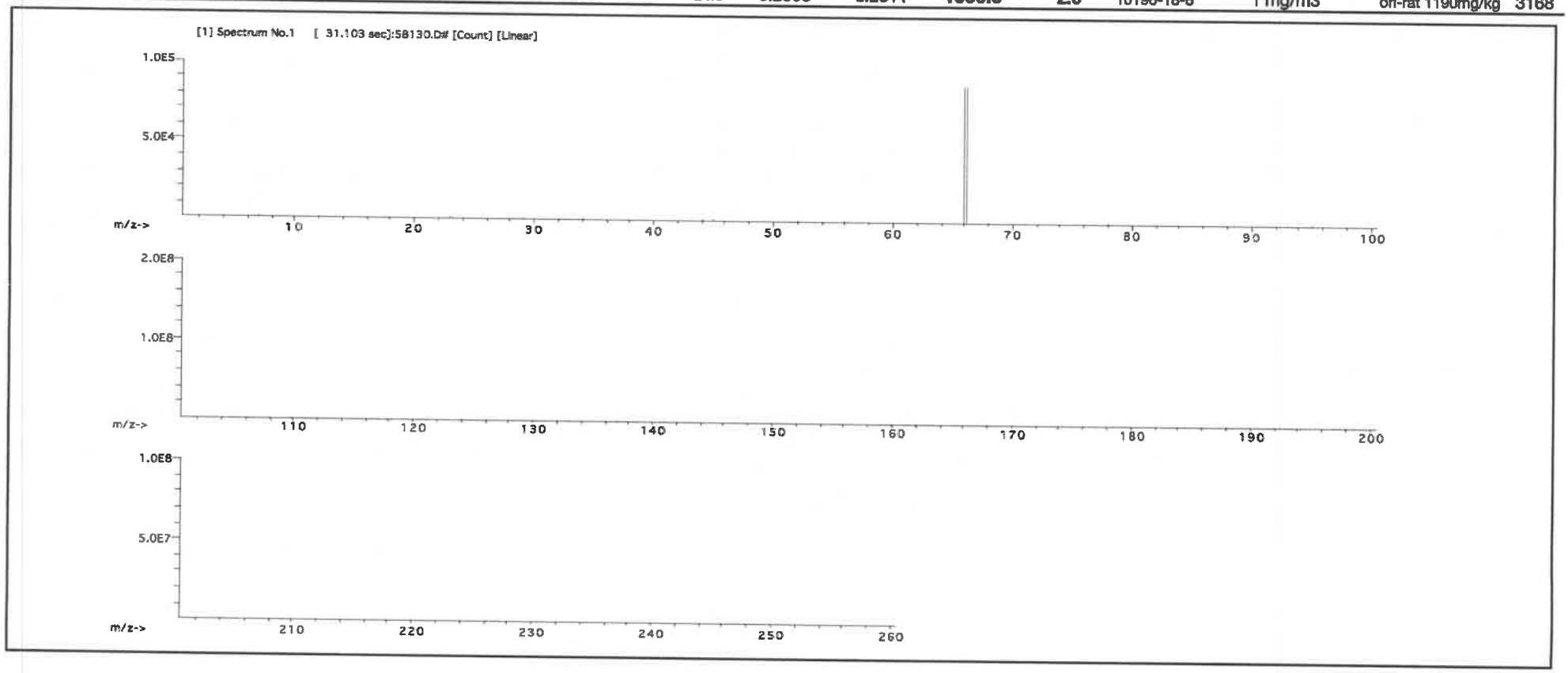
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

		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

Pedro Rentas
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



811

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

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

A: 4/11/22

Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ISS
Lot Number:	S2-MEB709511
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 µg/mL ea:

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
6-Lithium, Li6	10.00 ± 0.03 µg/mL	Bismuth, Bi	10.00 ± 0.05 µg/mL
Holmium, Ho	10.00 ± 0.05 µg/mL	Indium, In	10.00 ± 0.04 µg/mL
Rhodium, Rh	10.00 ± 0.07 µg/mL	Scandium, Sc	10.00 ± 0.04 µg/mL
Terbium, Tb	10.00 ± 0.04 µg/mL	Yttrium, Y	10.00 ± 0.04 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Bi	ICP Assay	3106	180815
Bi	Calculated		See Sec. 4.2
Ho	ICP Assay	3123a	090408
Ho	EDTA	928	928
In	ICP Assay	3124a	110516
In	EDTA	928	928
In	Calculated		See Sec. 4.2
Li6	Gravimetric		See Sec. 4.2
Rh	ICP Assay	3144	070619
Sc	ICP Assay	3148a	100701
Sc	EDTA	928	928
Tb	ICP Assay	3157a	100518
Tb	EDTA	928	928
Tb	Calculated		See Sec. 4.2
Y	ICP Assay	3167a	120314
Y	EDTA	928	928
Y	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Lithium Li6	95.6 ± 0.3
Lithium Li7	4.4 ± 0.1

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- September 03, 2026

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

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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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2700 Chandler Avenue - Building C
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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

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

825

CERTIFIED WEIGHT REPORT:

Part Number: 57047
Lot Number: 122823
Description: Silver (Ag)

Expiration Date: 122826
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

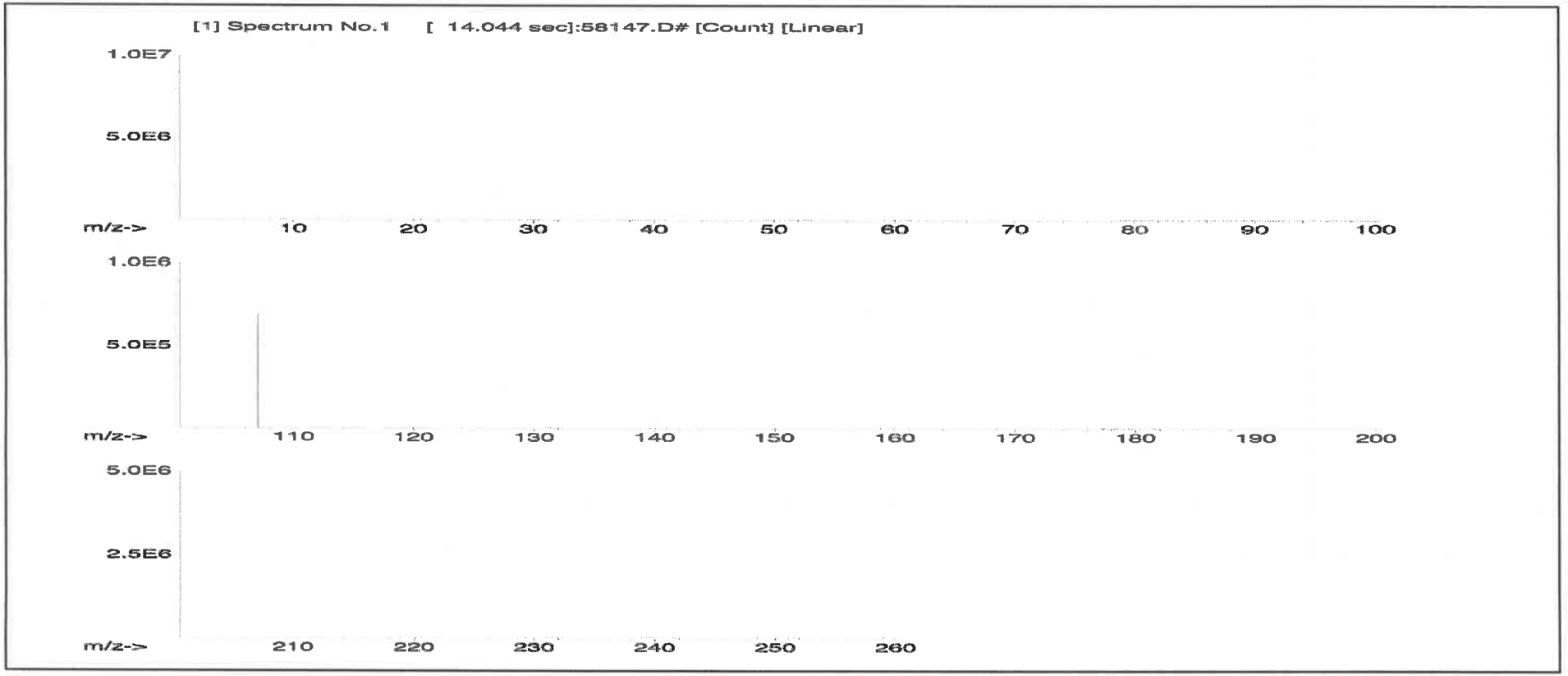
Weight shown below was diluted to (mL): 4000.30 ± 0.058 Flask Uncertainty

	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Formulated By:	Benson Chan	122823
Reviewed By:	Pedro L. Rentas	122823

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Silver nitrate (Ag)	IN035	J0612AGA1	1000.0	99.9999	0.10	63.7	6.27992	6.27998	**1000.0**	**2.0**	7761-88-8	10 ug/m3	NA	3151



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

827

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		

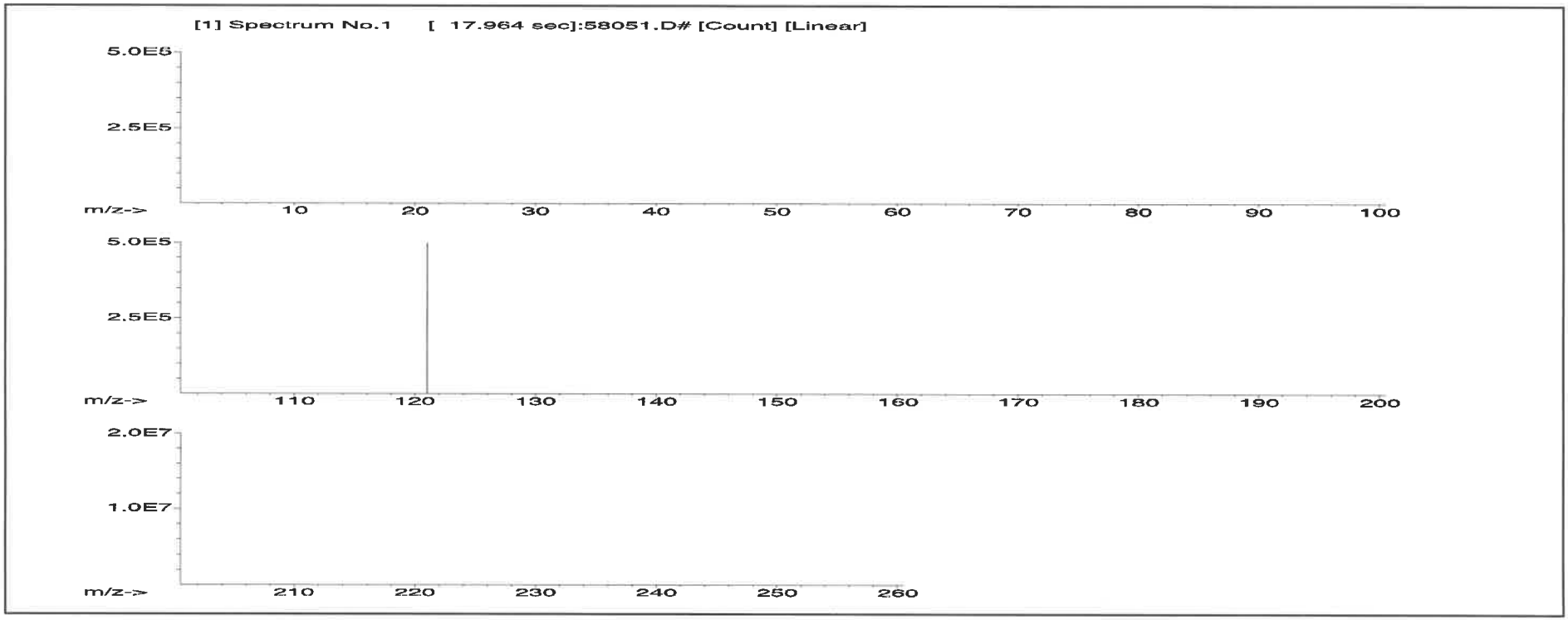
Giovanni Esposito

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



828

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.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

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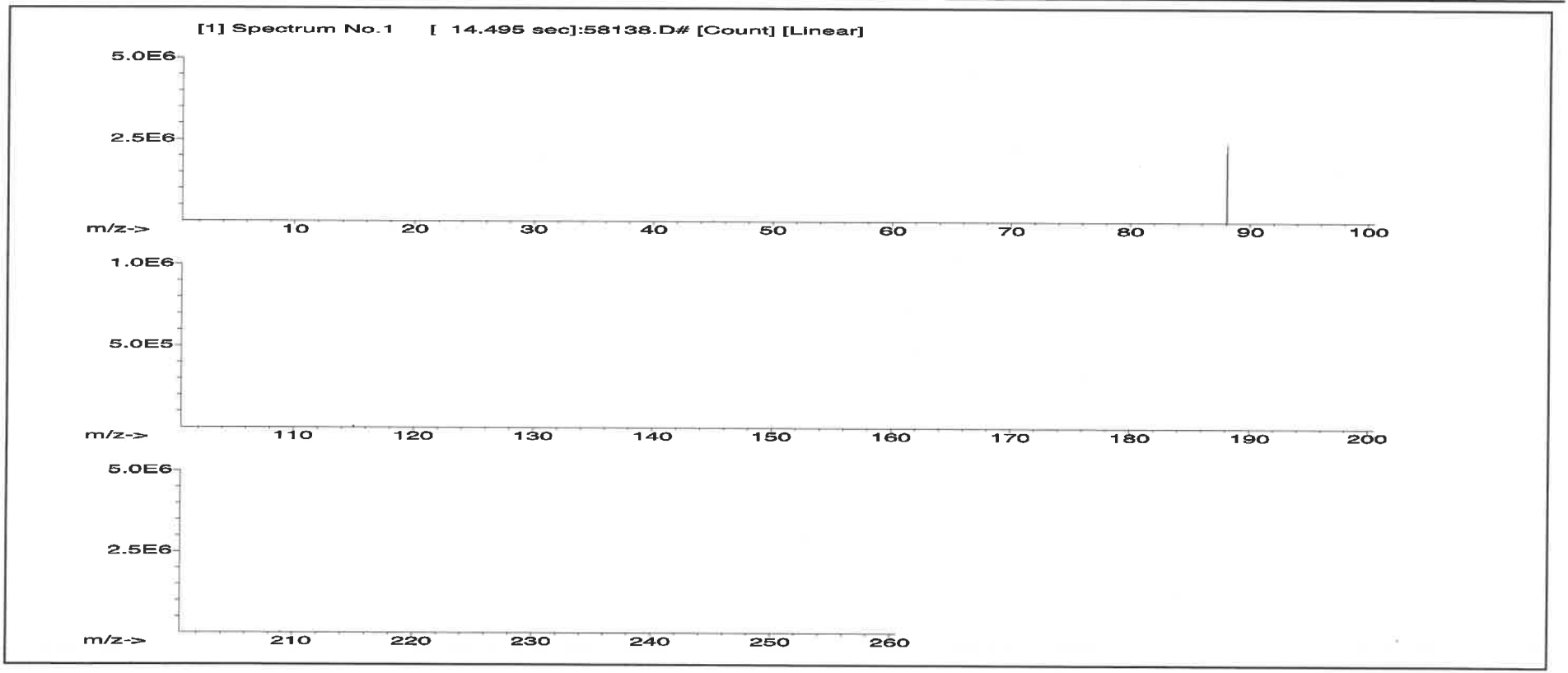
833

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



834

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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R ! 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

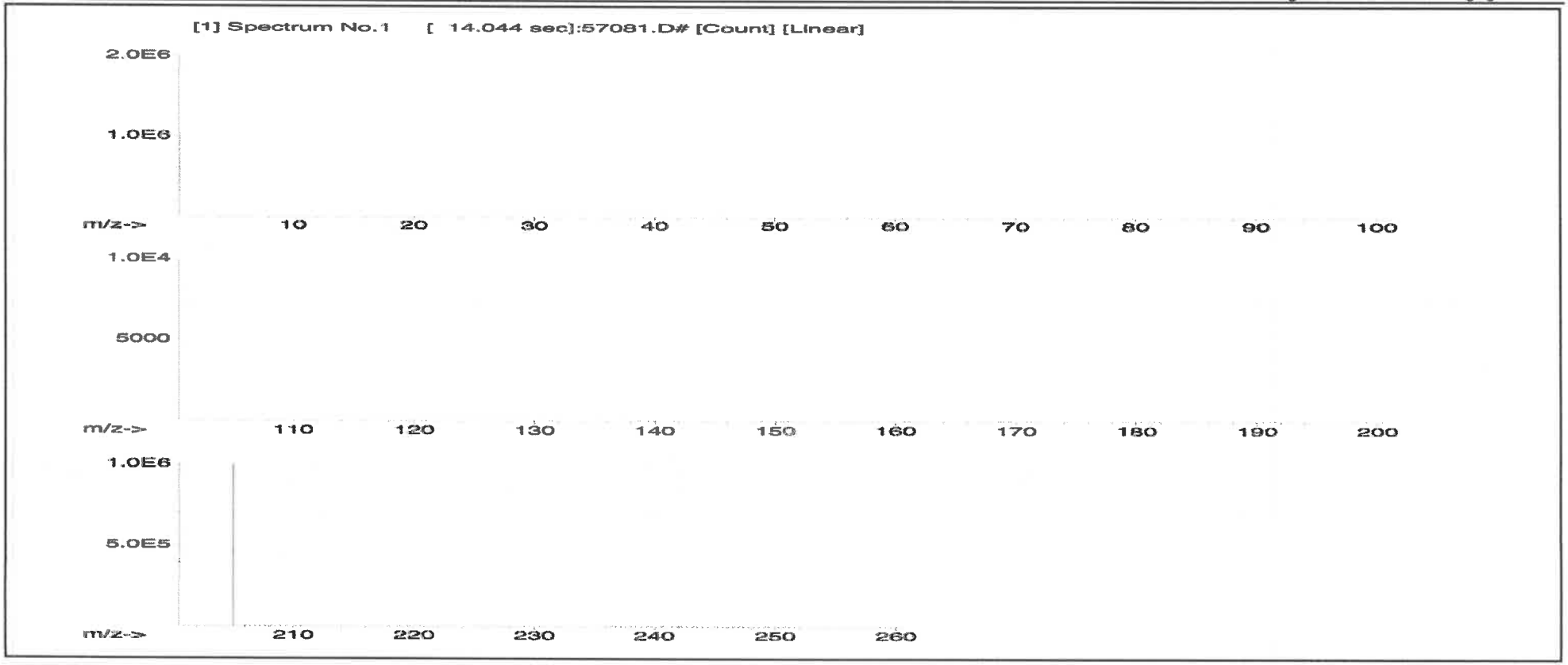
Aleah O'Brady

Formulated By:	Aleah O'Brady	062724

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



836

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

M6021

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837

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**062424**	24002546	Nitric Acid	
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	

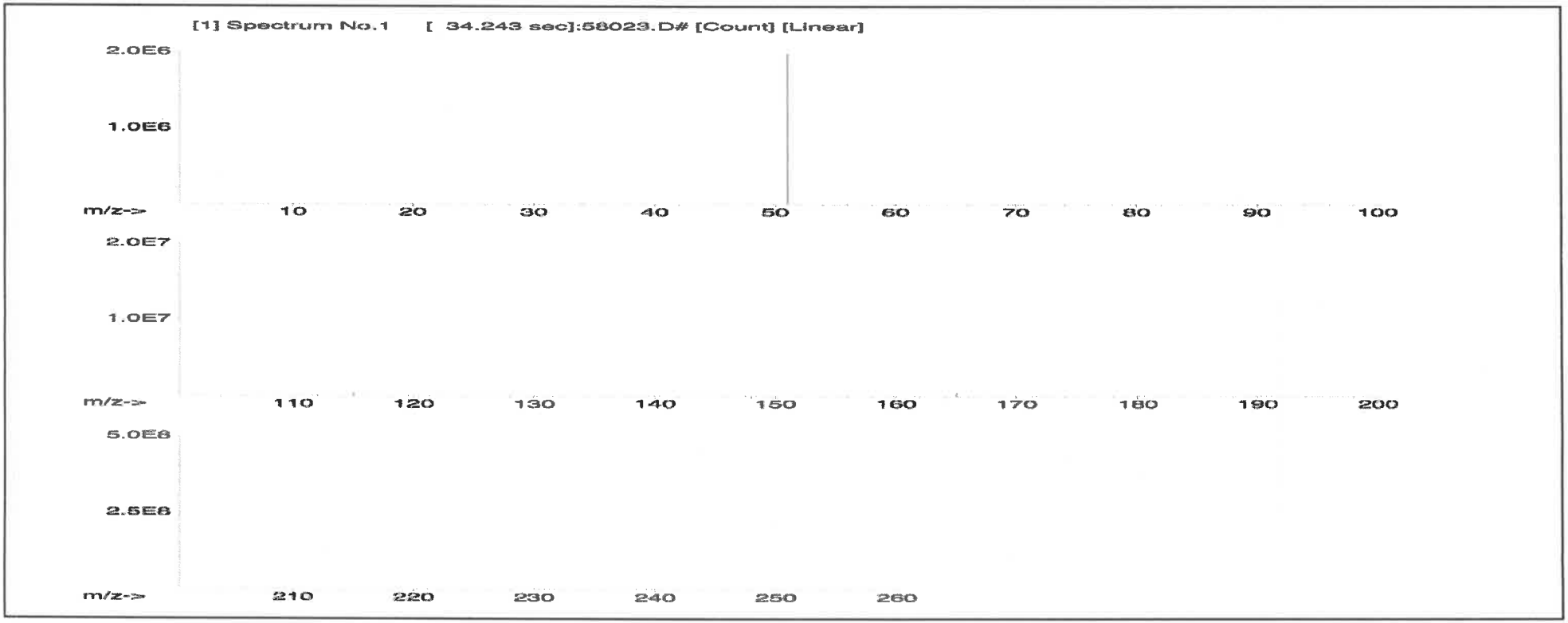
Aleah O'Brady

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



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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	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 Mercury Preparation Sheet

PB166782

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : ME2993/MDCZM3

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#1 2. N/A

Start Digest Date: 02/19/2025 **Time :** 11:25 **Temp :** 94 °C

End Digest Date: 02/19/2025 **Time :** 13:25 **Temp :** 95 °C

Digestion tube ID: M6054

Block thermometer ID: HG-DIG#1

Dig Technician Signature: MB

Supervisor Signature: [illegible]

Temp : 1. 94°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 @ 13:25	MB. HG. Lab	HG DIGEST LAB
	Preparation Group	Analysis Group 839

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166782

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166782BL	PBW782	100	100	<2	N/A	1-1
Q1231-01	ME2993	100	100	<2	N/A	2
Q1231-02	ME2993D	100	100	<2	N/A	3
Q1231-03	ME2993S	100	100	<2	MP84567	4
Q1231-04	ME29C1	100	100	<2	N/A	5
Q1231-05	ME29C2	100	100	<2	N/A	6
Q1231-06	ME29C3	100	100	<2	N/A	7
Q1231-07	ME29C4	100	100	<2	N/A	8
Q1255-01	MDCZM3	100	100	<2	N/A	9
Q1255-02	MDCZP0	100	100	<2	N/A	10
Q1255-03	MDCZP1	100	100	<2	N/A	11
Q1255-04	MDCZP5	100	100	<2	N/A	12
Q1255-05	MDCZM4	100	100	<2	N/A	13
Q1255-06	MDCZN3	100	100	<2	N/A	14
Q1255-07	MDCZP2	100	100	<2	N/A	15
Q1255-08	MDCZN8	100	100	<2	N/A	16
Q1255-09	MDCZN8D	100	100	<2	N/A	17
Q1255-10	MDCZN8S	100	100	<2	MP84567	18
Q1255-11	MDCZL6	100	100	<2	N/A	19
Q1255-12	MDCZL9	100	100	<2	N/A	20
Q1255-13	MDCZN9	100	100	<2	N/A	21
Q1255-14	MDCZN2	100	100	<2	N/A	22
Q1255-15	MDCZN7	100	100	<2	N/A	23
Q1255-16	MDCZP4	100	100	<2	N/A	24

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	
LCS Standard	MP84600
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

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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	
LCS Standard	MP84600
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

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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	
LCS Standard	MP84600
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

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134712

Review By	Janvi Patel	Review On	2/14/2025 5:32:06 PM
Supervise By	Kareem Khairalla	Supervise On	2/18/2025 11:55:14 AM

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	
Chk Standard	MP84444,MP84443

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE007	TUNE	02/13/25 11:12		Jaswal	OK
2	S00	S0	CAL1	02/13/25 11:45		Jaswal	OK
3	S02	S02	CAL3	02/13/25 11:48		Jaswal	OK
4	S03	S03	CAL4	02/13/25 11:51		Jaswal	OK
5	S04	S04	CAL5	02/13/25 11:54		Jaswal	OK
6	S05	S05	CAL6	02/13/25 11:57		Jaswal	OK
7	S06	S06	CAL7	02/13/25 12:00		Jaswal	OK
8	S07	S07	CAL8	02/13/25 12:03		Jaswal	OK
9	S08	S08	CAL9	02/13/25 12:06		Jaswal	OK
10	ICV007	ICV007	ICV	02/13/25 12:12	Instrument paused for calibration review	Jaswal	OK
11	ICB007	ICB007	ICB	02/13/25 12:16		Jaswal	OK
12	ICSA007	ICSA007	ICSA	02/13/25 12:19		Jaswal	OK
13	ICSAB007	ICSAB007	ICSAB	02/13/25 12:28	Instrument paused for review	Jaswal	OK
14	CCV027	CCV027	CCV	02/13/25 12:31		Jaswal	OK
15	CCB027	CCB027	CCB	02/13/25 12:34		Jaswal	OK
16	Q1255-08A	MDCZN8A	PS	02/13/25 12:38	PS for Se(0.1ml of MP84474 in 10ml sample)	Jaswal	OK
17	PB166671BL	PBW671	MB	02/13/25 12:41		Jaswal	OK
18	PB166671BS	LCS671	LCS	02/13/25 12:45		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 # LB134712

Review By	Janvi Patel	Review On	2/14/2025 5:32:06 PM
Supervise By	Kareem Khairalla	Supervise On	2/18/2025 11:55:14 AM

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	
Chk Standard	MP84444,MP84443

19	Q1231-01	ME2993	SAM	02/13/25 12:48		Jaswal	OK
20	Q1231-02	ME2993D	DUP	02/13/25 12:51		Jaswal	OK
21	Q1231-01L	ME2993L	SD	02/13/25 12:54		Jaswal	OK
22	Q1231-03	ME2993S	MS	02/13/25 12:58		Jaswal	OK
23	Q1231-04	ME29C1	SAM	02/13/25 13:01		Jaswal	OK
24	Q1231-05	ME29C2	SAM	02/13/25 13:04		Jaswal	OK
25	Q1231-06	ME29C3	SAM	02/13/25 13:07		Jaswal	OK
26	Q1231-07	ME29C4	SAM	02/13/25 13:10		Jaswal	OK
27	PB166703BL	PBW703	MB	02/13/25 13:14		Jaswal	OK
28	PB166703BS	LCS703	LCS	02/13/25 13:17		Jaswal	OK
29	Q1339-01	ME29C5	SAM	02/13/25 13:20	Na high	Jaswal	Dilution
30	Q1339-02	ME29C7	SAM	02/13/25 13:24		Jaswal	OK
31	Q1339-03	ME29C6	SAM	02/13/25 13:27		Jaswal	OK
32	Q1339-04	ME29C9	SAM	02/13/25 13:30		Jaswal	OK
33	Q1339-05	ME29D1	SAM	02/13/25 13:33		Jaswal	OK
34	Q1339-06RE	ME29D2	SAM	02/13/25 13:37	NOT USE	Jaswal	Not Ok
35	Q1339-07	ME29D4	SAM	02/13/25 13:40		Jaswal	OK
36	Q1339-08RE	ME29D2D	DUP	02/13/25 13:43	NOT USE	Jaswal	Not Ok
37	Q1339-07LRE	ME29D4L	SD	02/13/25 13:47	NOT USE	Jaswal	Not Ok
38	Q1339-09RE	ME29D2S	MS	02/13/25 13:50	NOT USE	Jaswal	Not Ok

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Fax : 908 789 8922

Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB134712

Review By	Janvi Patel	Review On	2/14/2025 5:32:06 PM
Supervise By	Kareem Khairalla	Supervise On	2/18/2025 11:55:14 AM

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	
Chk Standard	MP84444,MP84443

39	Q1339-01DL	ME29C5	SAM	02/13/25 13:53	Report 2x for Na	Jaswal	Confirms
40	CCV028	CCV028	CCV	02/13/25 13:56		Jaswal	OK
41	CCB028	CCB028	CCB	02/13/25 13:59		Jaswal	OK
42	Q1231-01A	ME2993A	PS	02/13/25 14:59	PS for Se(0.1ml of MP84474 in 10ml sample)	Jaswal	OK
43	CCV029	CCV029	CCV	02/13/25 15:09		Jaswal	OK
44	CCB029	CCB029	CCB	02/13/25 15:12		Jaswal	OK
45	Q1339-06	ME29D2	SAM	02/13/25 16:16		Jaswal	OK
46	Q1339-08	ME29D2D	DUP	02/13/25 16:20		Jaswal	OK
47	Q1339-06L	ME29D2L	SD	02/13/25 16:23		Jaswal	OK
48	Q1339-09	ME29D2S	MS	02/13/25 16:26		Jaswal	OK
49	CCV030	CCV030	CCV	02/13/25 16:31		Jaswal	OK
50	CCB030	CCB030	CCB	02/13/25 16:34		Jaswal	OK

EPA SAMPLE NO.

MDCZL6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-11

% Solids: Date Received: 02/01/2025

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	1536

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

Comments:

EPA SAMPLE NO.

MDCZL9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-12

% Solids: Date Received: 02/01/2025

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	1538

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

Comments:

EPA SAMPLE NO.

MDCZM3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-01

% 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	1513

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

Comments:

EPA SAMPLE NO.

MDCZM4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-05

% 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	0.20	U	02/19/2025	1522

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

Comments:

EPA SAMPLE NO.

MDCZN2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-14

% Solids: Date Received: 02/01/2025

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	0.052	J	02/19/2025	1548

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

Comments:

EPA SAMPLE NO.

MDCZN3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-06

% 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	0.035	J	02/19/2025	1524

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

Comments:

EPA SAMPLE NO.

MDCZN7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-15

% Solids: Date Received: 02/01/2025

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	0.034	J	02/19/2025	1550

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

Comments:

EPA SAMPLE NO.

MDCZN8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-08

% Solids: Date Received: 02/01/2025

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	1529

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

Comments:

EPA SAMPLE NO.

MDCZN9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-13

% Solids: Date Received: 02/01/2025

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	0.047	J	02/19/2025	1546

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

Comments:

EPA SAMPLE NO.

MDCZP0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-02

% 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	0.038	J	02/19/2025	1515

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

Comments:

EPA SAMPLE NO.

MDCZP1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-03

% 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	0.046	J	02/19/2025	1517

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

Comments:

EPA SAMPLE NO.

MDCZP2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-07

% 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	0.029	J	02/19/2025	1527

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

Comments:

EPA SAMPLE NO.

MDCZP4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-16

% Solids: Date Received: 02/01/2025

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	0.034	J	02/19/2025	1552

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

Comments:

EPA SAMPLE NO.

MDCZP5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51967 MA No. : SDG No.: MDCZM3

Matrix: Water Lab Sample ID: Q1255-04

% 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	0.56		02/19/2025	1520

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

Comments:

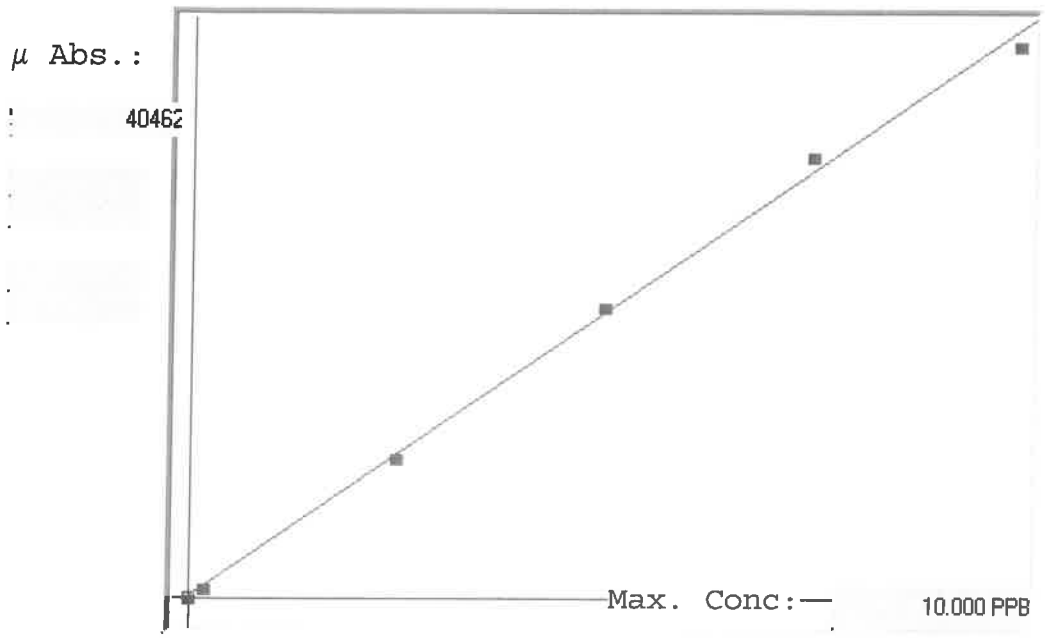
Reviewed By:jignesh
On:2/20/2025 9:08:45 AM
Inst Id :CV1

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					1
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					

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On:2/20/2025 9:08:45 AM
Inst Id :CV1

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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 : Q1255

Test : Mercury

Prepbatch ID : PB166782,

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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Fax : 908 789 8922

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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Fax : 908 789 8922

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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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3238-05 / Potassium Persulfate (2.5kg)	0000234156	08/06/2025	07/23/2019 / mohan	07/25/2019 / manojkumar	M4465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	02/28/2025	01/02/2025 / mohan	03/30/2023 / mohan	M5532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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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Fax : 908 789 8922

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

ThermoFisher SCIENTIFIC

M5882 M3

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH_4)	Passes Test	PT
Sulfur Compounds (as SO_4)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

876

Certificate of Analysis

ThermoFisher SCIENTIFIC

M4913-16

MB

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Mass Spec Solution
Catalog Number:	MSHG-10PPM
Lot Number:	S2-HG709270
Matrix:	10% (v/v) HCl
Value / Analyte(s):	10 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL

Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \Sigma(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$$

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

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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
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

884

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

PB166782

SOP ID : M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

SDG No : ME2993/MDCZM3

Start Digest Date: 02/19/2025 **Time :** 11:25 **Temp :** 94 °C

Matrix : WATER

End Digest Date: 02/19/2025 **Time :** 13:25 **Temp :** 95 °C

Pippete ID: HG A

Digestion tube ID: M6054

Balance ID : N/A

Block thermometer ID: HG-DIG#1

Filter paper ID : NA

Dig Technician Signature: MB

pH Strip ID : M6069

Supervisor Signature: [illegible]

Hood ID : #1

Temp : **1.** 94°C **2.** N/A

Block ID: **1.** HG HOT BLOCK#1 **2.** N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	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 @ 13:25	MB. HG. Lab	HG DIGEST LAB
	Preparation Group	**Analysis Group** 892

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166782

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166782BL	PBW782	100	100	<2	N/A	1-1
Q1231-01	ME2993	100	100	<2	N/A	2
Q1231-02	ME2993D	100	100	<2	N/A	3
Q1231-03	ME2993S	100	100	<2	MP84567	4
Q1231-04	ME29C1	100	100	<2	N/A	5
Q1231-05	ME29C2	100	100	<2	N/A	6
Q1231-06	ME29C3	100	100	<2	N/A	7
Q1231-07	ME29C4	100	100	<2	N/A	8
Q1255-01	MDCZM3	100	100	<2	N/A	9
Q1255-02	MDCZP0	100	100	<2	N/A	10
Q1255-03	MDCZP1	100	100	<2	N/A	11
Q1255-04	MDCZP5	100	100	<2	N/A	12
Q1255-05	MDCZM4	100	100	<2	N/A	13
Q1255-06	MDCZN3	100	100	<2	N/A	14
Q1255-07	MDCZP2	100	100	<2	N/A	15
Q1255-08	MDCZN8	100	100	<2	N/A	16
Q1255-09	MDCZN8D	100	100	<2	N/A	17
Q1255-10	MDCZN8S	100	100	<2	MP84567	18
Q1255-11	MDCZL6	100	100	<2	N/A	19
Q1255-12	MDCZL9	100	100	<2	N/A	20
Q1255-13	MDCZN9	100	100	<2	N/A	21
Q1255-14	MDCZN2	100	100	<2	N/A	22
Q1255-15	MDCZN7	100	100	<2	N/A	23
Q1255-16	MDCZP4	100	100	<2	N/A	24

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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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

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

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

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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

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

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

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



Jm
01/31/25
0935
2.1c

868

JM
01/31/25
0935
2.0 C

ORIGIN ID:JANA (404) 562-0000
ATTN: EPA SONFORD PROJECT
AECOM
3600 PAYNE DRIVE
SUITE 200
FLOWOOD, MS 39232
UNITED STATES US

SHIP DATE: 24JAN25
ACTWGT: 50.00 LB
CAD: 107961445/INET4535

BILL SENDER

TO ATTN: MOHAMMAD AHMED
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092
(908) 789-8900 REF: 60717632
INV: C.DOLAN
PO: RALEIGH, NC DEPT: TASK 4.7

58CJ3/EC17/6BC4

FedEx Express

FedEx

FRI - 31 JAN 10:30A

TRK# 7716 6529 7622

0201

PRIORITY OVERNIGHT

XE KBCA

07092

NJ-US EWR

58CJ3/EC17/6BC4



ORIGIN ID:JANA (404) 562-0600
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DEPT: TASK 4.7

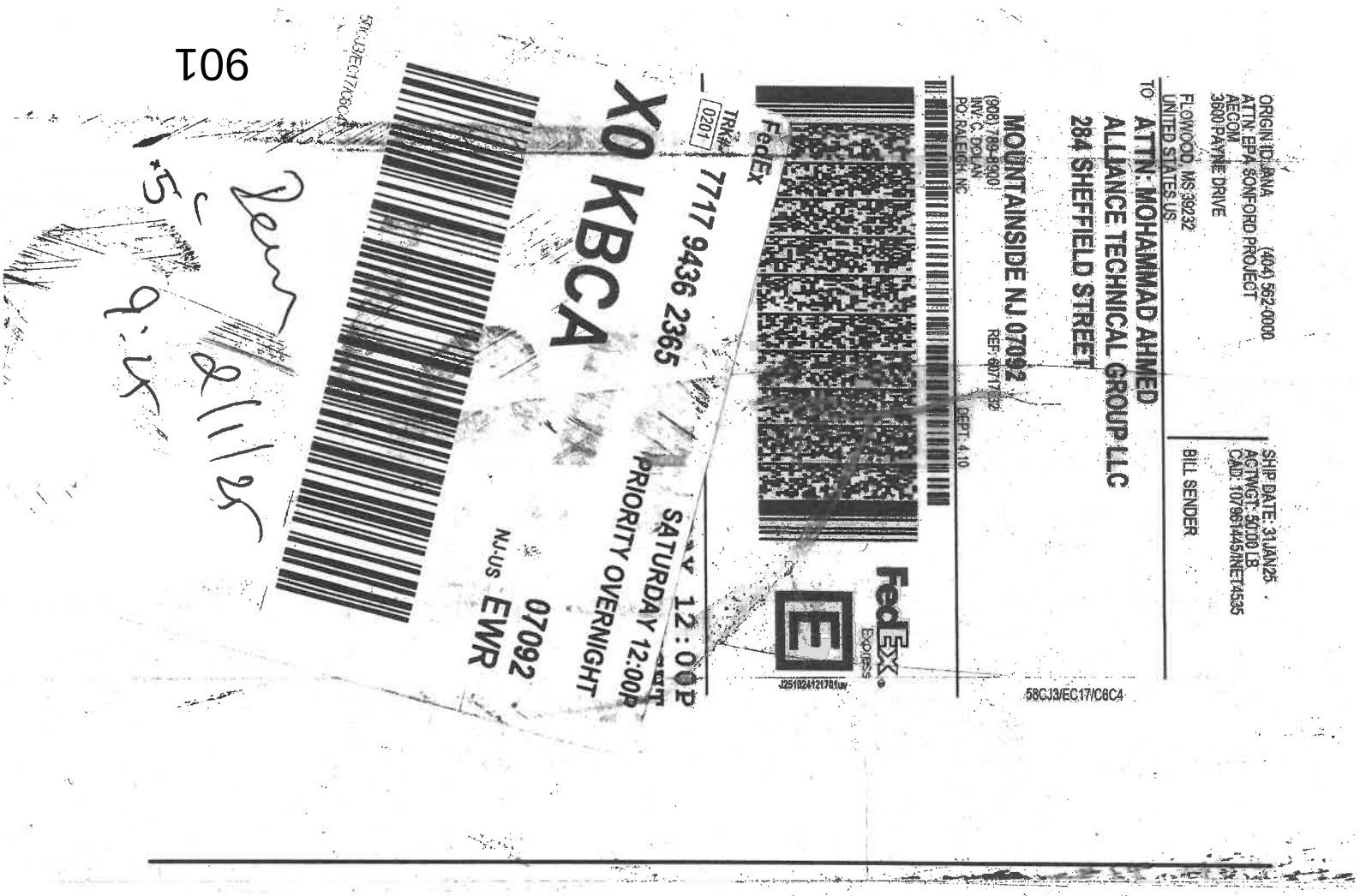
58C3/EC17/08C4

FedEx Express

FedEx
TRK# 0201 7716 6528 1450
FRI - 31 JAN 10:30A
PRIORITY OVERNIGHT

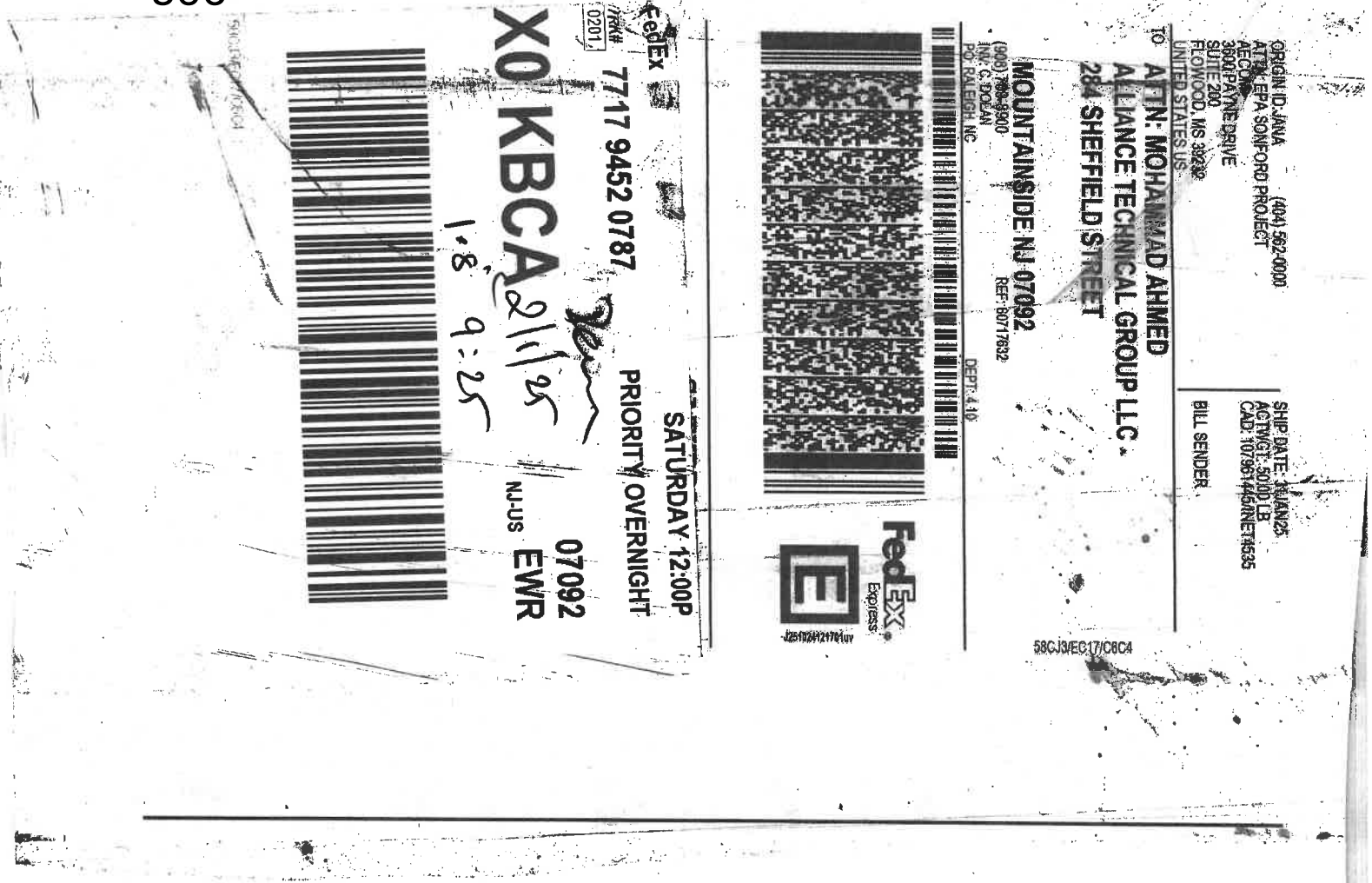
XE KBCA
07092
NJ-US EWR

01/31/25 0935
1.8 lbs 900



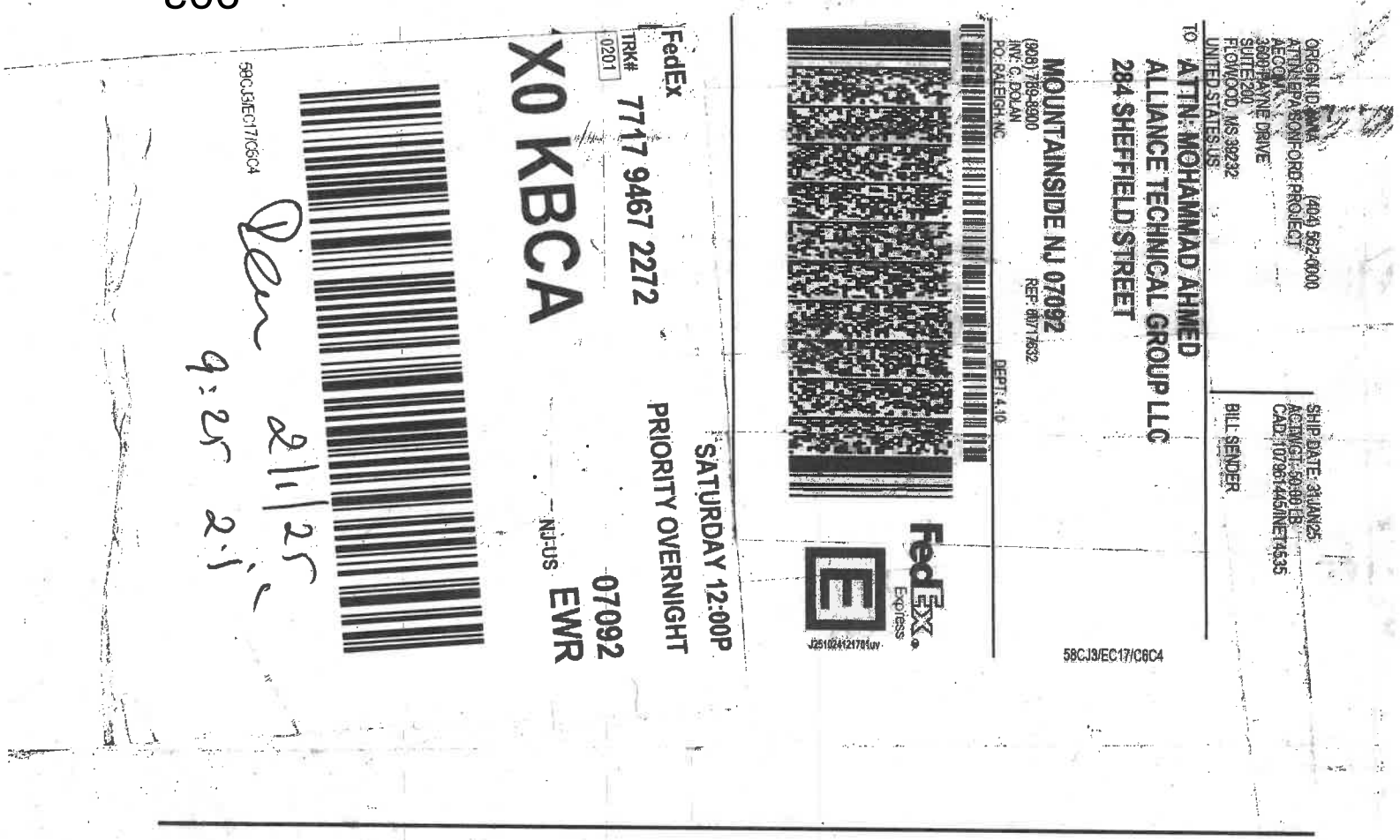
After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. 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 found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



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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 :	Q1255	Order Date :	2/1/2025 9:25:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51967	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	2/1/2025 9:25:00 AM	EDD Type :	EPA CLP
Date Sign Off :	2/5/2025 10:25:51 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
Q1255-01	MDCZM3	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-02	MDCZP0	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-03	MDCZP1	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-04	MDCZP5	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-05	MDCZM4	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-06	MDCZN3	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-07	MDCZP2	Water	01/29/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-08	MDCZN8	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-09	MDCZN8D	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025
Q1255-10	MDCZN8S	Water	01/30/2025						
				Mercury		SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS		SFAM_MS	15	02/24/2025	02/24/2025

Q1255-11	MDCZL6	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025
Q1255-12	MDCZL9	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025
Q1255-13	MDCZN9	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025
Q1255-14	MDCZN2	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025
Q1255-15	MDCZN7	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025
Q1255-16	MDCZP4	Water	01/30/2025					
				Mercury	SFAM_HG	15	02/24/2025	02/24/2025
				Metals CLP MS	SFAM_MS	15	02/24/2025	02/24/2025

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB166636 **WorkList ID :** 187602 **Department :** Digestion **Date :** 02-10-2025 08:24:28

906

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1255-01	MDCZM3	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-02	MDCZP0	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-03	MDCZP1	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-04	MDCZP5	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-05	MDCZM4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-06	MDCZN3	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-07	MDCZP2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_MS
Q1255-08	MDCZN8	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-09	MDCZN8D	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-10	MDCZN8S	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-11	MDCZL6	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-12	MDCZL9	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-13	MDCZN9	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-14	MDCZN2	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-15	MDCZN7	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS
Q1255-16	MDCZP4	Water	Metals CLP MS	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_MS

Date/Time 02/10/25 8:50
Raw Sample Received by: Sid. mct. dig
Raw Sample Relinquished by: JD(SM)

Date/Time 02/10/25 9:50
Raw Sample Received by: JD(SM)
Raw Sample Relinquished by: Sid. mct. dig

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1231/1255_HgW **WorkList ID :** 187756 **Department :** Digestion **Date :** 02-18-2025 16:13:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1231-01	ME2993	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1231-02	ME2993D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1231-03	ME2993S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1231-04	ME29C1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/03/2025	SFAM_HG
Q1231-05	ME29C2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/03/2025	SFAM_HG
Q1231-06	ME29C3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/03/2025	SFAM_HG
Q1231-07	ME29C4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	02/03/2025	SFAM_HG
Q1255-01	MDCZM3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-02	MDCZP0	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-03	MDCZP1	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-04	MDCZP5	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-05	MDCZM4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-06	MDCZN3	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-07	MDCZP2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/29/2025	SFAM_HG
Q1255-08	MDCZN8	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-09	MDCZN8D	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-10	MDCZN8S	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-11	MDCZL6	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-12	MDCZL9	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-13	MDCZN9	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-14	MDCZN2	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG

907

Date/Time 2/19/25 @ 10:55

Raw Sample Received by: MB - DW - CAS

Raw Sample Relinquished by: MB - DW - CAS

Date/Time 2/19/25 @ 11:30

Raw Sample Received by: DR - DW - CAS

Raw Sample Relinquished by: MB - DW - CAS

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1231/1255_HgW **WorkList ID :** 187756 **Department :** Digestion **Date :** 02-18-2025 16:13:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1255-15	MDCZN7	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG
Q1255-16	MDCZP4	Water	Mercury	1:1 HNO3 to pH < 2	USEP01	C11	01/30/2025	SFAM_HG

808

Date/Time 2/19/25 @ 10:55

Raw Sample Received by: MB ~ Digi. Lab

Raw Sample Relinquished by: MB ~ Digi. Lab

Date/Time 2/19/25 @ 11:20

Raw Sample Received by: MB ~ Dig. Lab

Raw Sample Relinquished by: MB ~ Dig. Lab