284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

METALS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1769

ATTENTION : John Ynfante

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

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Cover Page

Order ID : Q1769

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
Q1769-02	S-875-K1-SO-1.0-1.5-040925
Q1769-03	S-874-K1-SO-1.0-1.5-040925
Q1769-04	S-874-K1-SO-1.0-1.5-040925-FD
Q1769-08	EB01-040925
Q1769-09	S-873-K1-SO-1.0-1.5-040925
Q1769-10	S-873-K1-SO-1.0-1.5-040925MS
Q1769-11	S-873-K1-SO-1.0-1.5-040925MSD

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 manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:36 pm, May 15, 2025

Date: 5/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger STC PTC Site D3868221
Project # N/A
Order ID # Q1769
Test Name: Metals Group4

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 04/09/2025.
1 Water sample was received on 04/09/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Metals Group4. This data package contains results for Metals Group4.

C. Analytical Techniques:
The analysis of Metals Group4 was based on method 6020B and digestion based on method 3050 (soils) and 3010 (waters).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (S-873-K1-SO-1.0-1.5-040925MS) analysis met criteria for all samples except for Silver due to matrix interference.
The Matrix Spike Duplicate (S-873-K1-SO-1.0-1.5-040925MSD) analysis met criteria for all samples except for Silver due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
All samples analyzed and reported with straight 5X dilution because of soil sample matrix was very smelly and possible contains organic chemical interference which causes enhancement effect to the internal standard causing QC failure and possible not the correct concentration of required analyte.

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.

The projects has been revised due to sample EB01-040925 (lab ID Q1769-08) was analyzed and data were reported by 6010D instead of 6020B, and Client ID updated for Q1769-02, Q1769-03, Q1769-04, Q1769-09, Q1769-10 and Q1769-11 as per client request.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ **APPROVED**

By Nimisha Pandya, QA/QC Supervisor at 3:37 pm, May 15, 2025

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q1769 MATRIX: Solid, Water

METHOD: 6010D,6020B

		NA	NO	YES
1.	Calibration Summary met criteria.			✓
2.	ICP Interference Check Sample Results Summary Submitted.			✓
3.	Serial Dilution Summary (if applicable) Submitted.			✓
4.	Laboratory Control Sample Summary (if applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Matrix Spike (S-873-K1-SO-1.0-1.5-040925MS) analysis met criteria for all samples except for Silver. The Matrix Spike Duplicate (S-873-K1-SO-1.0-1.5-040925MSD) analysis met criteria for all samples except for Silver.			
7.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS: All samples analyzed and reported with straight 5X dilution because of soil sample matrix was very smelly and possible contains organic chemical interference which causes enhancement effect to the internal standard causing QC failure and possible not the correct concentration of required analyte.

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.

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

The projects has been revised due to sample EB01-040925 (lab ID Q1769-08) was analyzed and data were reported by 6010D instead of 6020B, and Client ID updated for Q1769-02, Q1769-03, Q1769-04, Q1769-09, Q1769-10 and Q1769-11 as per client request.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 3:28 pm, May 15, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1769

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 05/15/2025

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LAB CHRONICLE

OrderID:	Q1769	**OrderDate:**	4/9/2025 4:31:06 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	**Location:**	L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1769-02	**S-875-K1-SO-1.0-1.5-040925**	**SOIL**			**04/09/25**			**04/09/25**
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-03	**S-874-K1-SO-1.0-1.5-040925**	**SOIL**			**04/09/25**			**04/09/25**
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-04	**S-874-K1-SO-1.0-1.5-040925-FD**	**SOIL**			**04/09/25**			**04/09/25**
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-08	**EB01-040925**	**Water**			**04/09/25**			**04/09/25**
			Metals Group4	6020B		05/05/25	05/13/25	
Q1769-09	**S-873-K1-SO-1.0-1.5-040925**	**SOIL**			**04/09/25**			**04/09/25**
			Metals Group4	6020B		04/10/25	04/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1769 **Order ID:** Q1769

Client: JACOBS Engineering Group, Inc. **Project ID:** Former Schlumberger STC PTC Site D386

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : S-875-K1-SO-1.0-1.5-040925								
Q1769-02	S-875-K1-SO-1.0-1.5-040925	SOIL	Silver	6.96	D	0.078	0.30	mg/Kg
Client ID : S-874-K1-SO-1.0-1.5-040925								
Q1769-03	S-874-K1-SO-1.0-1.5-040925	SOIL	Silver	37.2	D	0.092	0.35	mg/Kg
Client ID : S-874-K1-SO-1.0-1.5-040925-FD								
Q1769-04	S-874-K1-SO-1.0-1.5-040925-FI	SOIL	Silver	44.6	D	0.096	0.37	mg/Kg
Client ID : S-873-K1-SO-1.0-1.5-040925								
Q1769-09	S-873-K1-SO-1.0-1.5-040925	SOIL	Silver	13.7	D	0.093	0.36	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/09/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/09/25
Client Sample ID:	S-875-K1-SO-1.0-1.5-040925	SDG No.:	Q1769
Lab Sample ID:	Q1769-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	6.96	DN	5	0.078	0.30	mg/Kg	04/10/25 13:05	04/11/25 14:21	6020B	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/09/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/09/25
Client Sample ID:	S-874-K1-SO-1.0-1.5-040925	SDG No.:	Q1769
Lab Sample ID:	Q1769-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	61.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	37.2	DN	5	0.092	0.35	mg/Kg	04/10/25 13:05	04/11/25 14:24	6020B	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/09/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/09/25
Client Sample ID:	S-874-K1-SO-1.0-1.5-040925-FD	SDG No.:	Q1769
Lab Sample ID:	Q1769-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	62.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	44.6	DN	5	0.096	0.37	mg/Kg	04/10/25 13:05	04/11/25 14:27	6020B	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/09/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/09/25
Client Sample ID:	EB01-040925	SDG No.:	Q1769
Lab Sample ID:	Q1769-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	0.060	U	1	0.060	1.00	ug/L	05/05/25 11:20	05/13/25 16:55	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	04/09/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/09/25
Client Sample ID:	S-873-K1-SO-1.0-1.5-040925	SDG No.:	Q1769
Lab Sample ID:	Q1769-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	67.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	13.7	DN	5	0.093	0.36	mg/Kg	04/10/25 13:05	04/11/25 14:31	6020B	SW3050

Color Before:	Black	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group4				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Silver	50.1	50.0	100	90 - 110	P	04/11/2025	12:48	LB135403

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Silver	1.02	1.0	102	80 - 120	P	04/11/2025	12:59	LB135403

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Silver	488	500	98	90 - 110	P	04/11/2025	13:31	LB135403
CCV02	Silver	490	500	98	90 - 110	P	04/11/2025	14:51	LB135403
CCV03	Silver	486	500	97	90 - 110	P	04/11/2025	15:36	LB135403

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Silver	45.1	50.0	90	90 - 110	P	05/13/2025	15:58	LB135757

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Silver	0.96	1.0	96	80 - 120	P	05/13/2025	16:08	LB135757

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Silver	487	500	97	90 - 110	P	05/13/2025	16:32	LB135757
CCV02	Silver	485	500	97	90 - 110	P	05/13/2025	17:20	LB135757
CCV03	Silver	492	500	98	90 - 110	P	05/13/2025	17:51	LB135757
CCV04	Silver	483	500	97	90 - 110	P	05/13/2025	18:15	LB135757

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI	Silver	1.07	1.0	107	70 - 130	P	04/11/2025	13:44	LB135403
CRI	Silver	1.10	1.0	110	70 - 130	P	05/13/2025	16:52	LB135757

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Silver	1.00	+/-1.00	U	1.00	P	04/11/2025	13:06	LB135403

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Silver	1.00	+/-1.00	U	1.00	P	04/11/2025	13:34	LB135403
CCB02	Silver	1.00	+/-1.00	U	1.00	P	04/11/2025	14:54	LB135403
CCB03	Silver	1.00	+/-1.00	U	1.00	P	04/11/2025	15:41	LB135403

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Silver	1.00	+/-1.00	U	1.00	P	05/13/2025	16:15	LB135757

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Silver	1.00	+/-1.00	U	1.00	P	05/13/2025	16:40	LB135757
CCB02	Silver	1.00	+/-1.00	U	1.00	P	05/13/2025	17:23	LB135757
CCB03	Silver	1.00	+/-1.00	U	1.00	P	05/13/2025	17:54	LB135757
CCB04	Silver	1.00	+/-1.00	U	1.00	P	05/13/2025	18:18	LB135757

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Instrument: P7

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167552BL		**SOLID**		**Batch Number:**	**PB167552**		**Prep Date:**	**04/10/2025**	
	Silver	0.046	<0.046	U	0.046	P	04/11/2025	14:15	LB135403

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167865BL		**WATER**		**Batch Number:**	**PB167865**		**Prep Date:**	**05/05/2025**	
	Silver	1.00	<1.00	U	1.00	P	05/13/2025	18:07	LB135757

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Silver	0.030			-2	2	04/11/2025	13:10	LB135403
ICSAB01	Silver	18.3	18.0	102	15.3	20.7	04/11/2025	13:28	LB135403
ICSA01	Silver	0.040			-2	2	05/13/2025	16:19	LB135757
ICSAB1	Silver	18.1	18.0	101	15.3	20.7	05/13/2025	16:29	LB135757

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1769

contract: JACO05 **lab code:** CHEM **case no.:** Q1769 **sas no.:** Q1769

matrix: Solid **sample id:** Q1769-09 **client id:** S-873-K1-SO-1.0-1.5-040925MS

Percent Solids for Sample: 67.5 **Spiked ID:** Q1769-10 **Percent Solids for Spike Sample:** 67.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	mg/Kg	75 - 125	17.4	D	13.7	D	33.7	11	N	P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1769

contract: JACO05 **lab code:** CHEM **case no.:** Q1769 **sas no.:** Q1769

matrix: Solid **sample id:** Q1769-09 **client id:** S-873-K1-SO-1.0-1.5-040925MSD

Percent Solids for Sample: 67.5 **Spiked ID:** Q1769-11 **Percent Solids for Spike Sample:** 67.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	mg/Kg	75 - 125	15.6	D	13.7	D	30.1	6	N	P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Matrix: Solid **Level:** LOW **Client ID:** S-873-K1-SO-1.0-1.5-040925A

Sample ID: Q1769-09 **Spiked ID:** Q1769-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	mg/Kg	75 - 125	18.5	D	13.7	D	35.6	13		P

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Matrix: Solid **Sample ID:** Q1769-09 **Client ID:** S-873-K1-SO-1.0-1.5-040925DUP

Percent Solids for Sample: 67.5 **Duplicate ID** Q1769-09DUP **Percent Solids for Spike Sample:** 67.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Silver	mg/Kg	20	13.7	D	12.0	D	13		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Matrix: Solid **Sample ID:** Q1769-10 **Client ID:** S-873-K1-SO-1.0-1.5-040925MSD

Percent Solids for Sample: 67.5 **Duplicate ID** Q1769-11 **Percent Solids for Spike Sample:** 67.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Silver	mg/Kg	20	17.4	D	15.6	D	11		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167552BS							
Silver	mg/Kg	22.6	22.9		101	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q1769 **SAS No.:** Q1769

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167865BS							
Silver	ug/L	500	512		102	80 - 120	P

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P7 Start Date : 04/11/2025

Run Number: LB135403 End Date : 04/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1209	100		100		100		100		100	
S2	S2	1216	104		102		101		101		100	
S3	S3	1219	108		105		104		103		104	
S4	S4	1223	104		99		100		99		101	
S5	S5	1226	104		97		97		96		100	
S6	S6	1229	100		91		94		91		96	
S7	S7	1231	98		93		96		92		99	
S8	S8	1234	105		109		110		100		111	
ICV01	ICV01	1248	99		103		103		102		102	
LLICV	LLICV	1259	110		109		109		108		109	
ICB01	ICB01	1306	124		123		124		122		122	
ICSA01	ICSA01	1310	98		99		101		97		101	
ICSAB01	ICSAB01	1328	103		102		104		100		107	
CCV01	CCV01	1331	96		99		102		97		105	
CCB01	CCB01	1334	98		103		107		106		108	
CRI	CRI	1344	102		107		109		109		109	
PB167552BL	PB167552BL	1415	97		110		110		110		110	
PB167552BS	PB167552BS	1418	97		105		107		105		109	
Q1769-02	S-875-K1-SO	1421	103		105		109		107		109	
Q1769-03	S-874-K1-SO	1424	104		110		114		110		112	
Q1769-04	S-874-K1-SO	1427	104		111		114		110		112	
Q1769-09	S-873-K1-SO	1431	104		112		116		110		113	
Q1769-09DUP	S-873-K1-SO	1434	101		112		116		109		112	
CCV02	CCV02	1451	100		105		106		100		108	
CCB02	CCB02	1454	105		104		104		104		106	
Q1769-09L	S-873-K1-SO	1457	102		104		106		103		105	
Q1769-10	S-873-K1-SO	1517	103		110		114		109		111	
Q1769-11	S-873-K1-SO	1520	103		112		114		108		112	
Q1769-09A	S-873-K1-SO	1523	103		111		115		109		111	
CCV03	CCV03	1536	98		104		105		99		106	
CCB03	CCB03	1541	97		102		104		103		104	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P7 Start Date : 04/11/2025

Run Number: LB135403 End Date : 04/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1209	100		100		100		100		100	
S2	S2	1216	103		104		103		101		102	
S3	S3	1219	102		104		102		103		104	
S4	S4	1223	98		102		100		102		104	
S5	S5	1226	95		97		97		101		103	
S6	S6	1229	93		97		96		102		103	
S7	S7	1231	96		100		97		103		104	
S8	S8	1234	109		111		102		110		111	
ICV01	ICV01	1248	102		106		104		105		105	
LLICV	LLICV	1259	105		109		108		109		108	
ICB01	ICB01	1306	101		104		103		104		104	
ICSA01	ICSA01	1310	97		101		98		103		104	
ICSAB01	ICSAB01	1328	102		106		101		106		108	
CCV01	CCV01	1331	100		104		98		106		106	
CCB01	CCB01	1334	101		106		106		107		107	
CRI	CRI	1344	106		111		111		111		112	
PB167552BL	PB167552BL	1415	106		110		110		109		107	
PB167552BS	PB167552BS	1418	100		107		103		107		107	
Q1769-02	S-875-K1-SO	1421	100		106		102		105		105	
Q1769-03	S-874-K1-SO	1424	110		116		112		114		114	
Q1769-04	S-874-K1-SO	1427	109		117		112		113		114	
Q1769-09	S-873-K1-SO	1431	109		117		112		112		112	
Q1769-09DUP	S-873-K1-SO	1434	109		116		111		111		110	
CCV02	CCV02	1451	103		106		100		109		109	
CCB02	CCB02	1454	102		106		105		107		108	
Q1769-09L	S-873-K1-SO	1457	103		108		107		109		108	
Q1769-10	S-873-K1-SO	1517	109		114		110		111		112	
Q1769-11	S-873-K1-SO	1520	108		114		110		111		113	
Q1769-09A	S-873-K1-SO	1523	110		117		111		113		113	
CCV03	CCV03	1536	102		106		100		106		106	
CCB03	CCB03	1541	101		107		106		106		105	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1458	100		100		100		100		100	
S2	S2	1505	101		100		101		103		102	
S3	S3	1508	101		101		99		101		101	
S4	S4	1516	99		97		98		97		99	
S5	S5	1519	98		98		97		96		99	
S6	S6	1522	96		95		96		91		98	
S7	S7	1525	91		92		93		88		97	
S8	S8	1527	83		87		89		79		91	
ICV01	ICV01	1558	102		105		103		105		104	
LLICV	LLICV	1608	103		106		106		106		105	
ICB01	ICB01	1615	104		105		107		107		106	
ICSA01	ICSA01	1619	97		103		103		96		104	
ICSAB1	ICSAB1	1629	94		107		106		99		105	
CCV01	CCV01	1632	89		100		99		90		99	
CCB01	CCB01	1640	101		110		108		108		107	
CRI	CRI	1652	100		108		106		107		105	
Q1769-08	EB01-040925	1655	104		111		110		111		109	
ZZZZZZ	ZZZZZZ	1658										
ZZZZZZ	ZZZZZZ	1701										
ZZZZZZ	ZZZZZZ	1704										
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1710										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
CCV02	CCV02	1720	91		101		100		91		100	
CCB02	CCB02	1723	104		109		110		108		107	
ZZZZZZ	ZZZZZZ	1727										
ZZZZZZ	ZZZZZZ	1730										
ZZZZZZ	ZZZZZZ	1733										
ZZZZZZ	ZZZZZZ	1736										
ZZZZZZ	ZZZZZZ	1739										
ZZZZZZ	ZZZZZZ	1742										
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1748										
CCV03	CCV03	1751	88		101		102		91		99	
CCB03	CCB03	1754	102		110		109		109		109	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
PB167865BL	PB167865BL	1807	101		112		109		110		108	
PB167865BS	PB167865BS	1811	98		109		108		102		107	
CCV04	CCV04	1815	89		101		101		92		101	
CCB04	CCB04	1818	101		109		109		109		108	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1458	100		100		100		100		100	
S2	S2	1505	101		100		101		101		101	
S3	S3	1508	99		96		97		100		99	
S4	S4	1516	97		95		95		98		98	
S5	S5	1519	96		94		93		98		97	
S6	S6	1522	95		92		90		96		97	
S7	S7	1525	95		90		87		94		94	
S8	S8	1527	88		89		79		90		90	
ICV01	ICV01	1558	103		102		103		104		103	
LLICV	LLICV	1608	105		104		105		105		104	
ICB01	ICB01	1615	105		105		106		105		104	
ICSA01	ICSA01	1619	101		100		95		100		102	
ICSAB1	ICSAB1	1629	103		102		97		100		101	
CCV01	CCV01	1632	99		95		90		96		97	
CCB01	CCB01	1640	105		102		105		103		103	
CRI	CRI	1652	105		104		105		103		104	
Q1769-08	EB01-040925	1655	106		105		107		104		104	
ZZZZZZ	ZZZZZZ	1658										
ZZZZZZ	ZZZZZZ	1701										
ZZZZZZ	ZZZZZZ	1704										
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1710										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
CCV02	CCV02	1720	97		95		88		95		95	
CCB02	CCB02	1723	104		102		105		103		101	
ZZZZZZ	ZZZZZZ	1727										
ZZZZZZ	ZZZZZZ	1730										
ZZZZZZ	ZZZZZZ	1733										
ZZZZZZ	ZZZZZZ	1736										
ZZZZZZ	ZZZZZZ	1739										
ZZZZZZ	ZZZZZZ	1742										
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1748										
CCV03	CCV03	1751	97		96		89		96		97	
CCB03	CCB03	1754	104		103		106		102		103	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
PB167865BL	PB167865BL	1807	106		104		107		103		104	
PB167865BS	PB167865BS	1811	104		102		100		101		102	
CCV04	CCV04	1815	97		94		88		96		96	
CCB04	CCB04	1818	103		102		105		104		102	

Internal Standard %RI Limit: 70 - 130

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P7 Start Date : 04/11/2025

Run Number: LB135403 End Date : 04/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1209	100		100							
S2	S2	1216	101		102							
S3	S3	1219	104		105							
S4	S4	1223	101		101							
S5	S5	1226	101		103							
S6	S6	1229	98		99							
S7	S7	1231	99		99							
S8	S8	1234	110		102							
ICV01	ICV01	1248	103		103							
LLICV	LLICV	1259	107		110							
ICB01	ICB01	1306	121		122							
ICSA01	ICSA01	1310	102		99							
ICSAB01	ICSAB01	1328	106		105							
CCV01	CCV01	1331	105		101							
CCB01	CCB01	1334	108		109							
CRI	CRI	1344	108		109							
PB167552BL	PB167552BL	1415	109		108							
PB167552BS	PB167552BS	1418	109		108							
Q1769-02	S-875-K1-SO-	1421	109		109							
Q1769-03	S-874-K1-SO-	1424	112		113							
Q1769-04	S-874-K1-SO-	1427	112		112							
Q1769-09	S-873-K1-SO-	1431	112		112							
Q1769-09DUP	S-873-K1-SO-	1434	112		111							
CCV02	CCV02	1451	107		103							
CCB02	CCB02	1454	106		109							
Q1769-09L	S-873-K1-SO-	1457	106		108							
Q1769-10	S-873-K1-SO-	1517	111		112							
Q1769-11	S-873-K1-SO-	1520	111		111							
Q1769-09A	S-873-K1-SO-	1523	112		113							
CCV03	CCV03	1536	107		100							
CCB03	CCB03	1541	103		106							

Internal Standard %RI Limit: 70 -130

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Fax : 908 789 8922

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P7 Start Date : 04/11/2025

Run Number: LB135403 End Date : 04/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1209	100									
S2	S2	1216	102									
S3	S3	1219	104									
S4	S4	1223	103									
S5	S5	1226	102									
S6	S6	1229	102									
S7	S7	1231	100									
S8	S8	1234	100									
ICV01	ICV01	1248	104									
LLICV	LLICV	1259	108									
ICB01	ICB01	1306	104									
ICSA01	ICSA01	1310	100									
ICSAB01	ICSAB01	1328	104									
CCV01	CCV01	1331	100									
CCB01	CCB01	1334	107									
CRI	CRI	1344	111									
PB167552BL	PB167552BL	1415	108									
PB167552BS	PB167552BS	1418	107									
Q1769-02	S-875-K1-SO-	1421	106									
Q1769-03	S-874-K1-SO-	1424	115									
Q1769-04	S-874-K1-SO-	1427	114									
Q1769-09	S-873-K1-SO-	1431	112									
Q1769-09DUP	S-873-K1-SO-	1434	110									
CCV02	CCV02	1451	102									
CCB02	CCB02	1454	108									
Q1769-09L	S-873-K1-SO-	1457	109									
Q1769-10	S-873-K1-SO-	1517	111									
Q1769-11	S-873-K1-SO-	1520	111									
Q1769-09A	S-873-K1-SO-	1523	113									
CCV03	CCV03	1536	100									
CCB03	CCB03	1541	107									

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1458	100		100							
S2	S2	1505	101		101							
S3	S3	1508	102		102							
S4	S4	1516	99		99							
S5	S5	1519	100		98							
S6	S6	1522	99		95							
S7	S7	1525	97		92							
S8	S8	1527	92		81							
ICV01	ICV01	1558	104		105							
LLICV	LLICV	1608	105		105							
ICB01	ICB01	1615	105		107							
ICSA01	ICSA01	1619	104		96							
ICSAB1	ICSAB1	1629	105		96							
CCV01	CCV01	1632	98		90							
CCB01	CCB01	1640	106		107							
CRI	CRI	1652	104		106							
Q1769-08	EB01-040925	1655	107		108							
ZZZZZZ	ZZZZZZ	1658										
ZZZZZZ	ZZZZZZ	1701										
ZZZZZZ	ZZZZZZ	1704										
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1710										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
CCV02	CCV02	1720	100		91							
CCB02	CCB02	1723	107		108							
ZZZZZZ	ZZZZZZ	1727										
ZZZZZZ	ZZZZZZ	1730										
ZZZZZZ	ZZZZZZ	1733										
ZZZZZZ	ZZZZZZ	1736										
ZZZZZZ	ZZZZZZ	1739										
ZZZZZZ	ZZZZZZ	1742										
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1748										

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
CCV03	CCV03	1751	100		91							
CCB03	CCB03	1754	107		110							
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
PB167865BL	PB167865BL	1807	108		108							
PB167865BS	PB167865BS	1811	107		103							
CCV04	CCV04	1815	101		93							
CCB04	CCB04	1818	108		110							

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1458	100									
S2	S2	1505	101									
S3	S3	1508	98									
S4	S4	1516	96									
S5	S5	1519	94									
S6	S6	1522	93									
S7	S7	1525	88									
S8	S8	1527	80									
ICV01	ICV01	1558	103									
LLICV	LLICV	1608	104									
ICB01	ICB01	1615	105									
ICSA01	ICSA01	1619	93									
ICSAB1	ICSAB1	1629	92									
CCV01	CCV01	1632	87									
CCB01	CCB01	1640	102									
CRI	CRI	1652	102									
Q1769-08	EB01-040925	1655	103									
ZZZZZZ	ZZZZZZ	1658										
ZZZZZZ	ZZZZZZ	1701										
ZZZZZZ	ZZZZZZ	1704										
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1710										
ZZZZZZ	ZZZZZZ	1713										
ZZZZZZ	ZZZZZZ	1717										
CCV02	CCV02	1720	87									
CCB02	CCB02	1723	101									
ZZZZZZ	ZZZZZZ	1727										
ZZZZZZ	ZZZZZZ	1730										
ZZZZZZ	ZZZZZZ	1733										
ZZZZZZ	ZZZZZZ	1736										
ZZZZZZ	ZZZZZZ	1739										
ZZZZZZ	ZZZZZZ	1742										
ZZZZZZ	ZZZZZZ	1745										
ZZZZZZ	ZZZZZZ	1748										

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1769 Sas No.: Q1769 SDG No.: Q1769

Instrument ID: P8 Start Date : 05/13/2025

Run Number: LB135757 End Date : 05/13/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
CCV03	CCV03	1751	87									
CCB03	CCB03	1754	102									
ZZZZZZ	ZZZZZZ	1758										
ZZZZZZ	ZZZZZZ	1801										
ZZZZZZ	ZZZZZZ	1804										
PB167865BL	PB167865BL	1807	103									
PB167865BS	PB167865BS	1811	97									
CCV04	CCV04	1815	85									
CCB04	CCB04	1818	103									

Internal Standard %RI Limit: 70 -130

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

S-873-K1-SO-1.0-1.5-040925L

Lab Name: Chemtech Consulting Group **Contract:** JACO05

Lab Code: CHEM **Lb No.:** lb135403 **Lab Sample ID :** Q1769-09L **SDG No.:** Q1769

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Silver	13.7	D	13.5	D	1		P

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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Fax : 908 789 8922

Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Method:**

Case No.: Q1769 **SAS No.:** Q1769

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167552**						
PB167552BL	PB167552BL	MB	SOLID	04/10/2025	2.18	100.0	100.00
PB167552BS	PB167552BS	LCS	SOLID	04/10/2025	2.21	100.0	100.00
Q1769-02	S-875-K1-SO-1.0-1.5-040925	SAM	SOLID	04/10/2025	2.12	100.0	78.50
Q1769-03	S-874-K1-SO-1.0-1.5-040925	SAM	SOLID	04/10/2025	2.29	100.0	61.80
Q1769-04	S-874-K1-SO-1.0-1.5-040925-FD	SAM	SOLID	04/10/2025	2.15	100.0	62.70
Q1769-09	S-873-K1-SO-1.0-1.5-040925	SAM	SOLID	04/10/2025	2.08	100.0	67.50
Q1769-09DUP	S-873-K1-SO-1.0-1.5-040925DUP	DUP	SOLID	04/10/2025	2.33	100.0	67.50
Q1769-10	S-873-K1-SO-1.0-1.5-040925MS	MS	SOLID	04/10/2025	2.20	100.0	67.50
Q1769-11	S-873-K1-SO-1.0-1.5-040925MSD	MSD	SOLID	04/10/2025	2.46	100.0	67.50

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q1769

Contract: JACO05 **Lab Code:** CHEM **Method:**

Case No.: Q1769 **SAS No.:** Q1769

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167865**						
PB167865BL	PB167865BL	MB	WATER	05/05/2025	50.0	50.0	
PB167865BS	PB167865BS	LCS	WATER	05/05/2025	50.0	50.0	
Q1769-08	EB01-040925	SAM	WATER	05/05/2025	50.0	50.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc. **Contract:** JACO05

Lab code: CHEM **Case no.:** Q1769 **Sas no.:** Q1769 **Sdg no.:** Q1769

Instrument id number: **Method:** **Run number:** LB135403

Start date: 04/11/2025 **End date:** 04/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1209	Ag
S2	S2	1	1216	Ag
S3	S3	1	1219	Ag
S4	S4	1	1223	Ag
S5	S5	1	1226	Ag
S6	S6	1	1229	Ag
S7	S7	1	1231	Ag
S8	S8	1	1234	,
ICV01	ICV01	1	1248	Ag
LLICV	LLICV	1	1259	Ag
ICB01	ICB01	1	1306	Ag
ICSA01	ICSA01	1	1310	Ag
ICSAB01	ICSAB01	1	1328	Ag
CCV01	CCV01	1	1331	Ag
CCB01	CCB01	1	1334	Ag
CRI	CRI	1	1344	Ag
PB167552BL	PB167552BL	1	1415	Ag
PB167552BS	PB167552BS	1	1418	Ag
Q1769-02	S-875-K1-SO-1.0-1.5-040925	5	1421	Ag
Q1769-03	S-874-K1-SO-1.0-1.5-040925	5	1424	Ag
Q1769-04	S-874-K1-SO-1.0-1.5-040925-FI	5	1427	Ag
Q1769-09	S-873-K1-SO-1.0-1.5-040925	5	1431	Ag
Q1769-09DUP	S-873-K1-SO-1.0-1.5-040925DU	5	1434	Ag
CCV02	CCV02	1	1451	Ag
CCB02	CCB02	1	1454	Ag
Q1769-09L	S-873-K1-SO-1.0-1.5-040925L	25	1457	Ag
Q1769-10	S-873-K1-SO-1.0-1.5-040925MS	5	1517	Ag
Q1769-11	S-873-K1-SO-1.0-1.5-040925MS	5	1520	Ag
Q1769-09A	S-873-K1-SO-1.0-1.5-040925	5	1523	Ag
CCV03	CCV03	1	1536	Ag
CCB03	CCB03	1	1541	Ag

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metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc. **Contract:** JACO05

Lab code: CHEM **Case no.:** Q1769 **Sas no.:** Q1769 **Sdg no.:** Q1769

Instrument id number: **Method:** **Run number:** LB135757

Start date: 05/13/2025 **End date:** 05/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1458	Ag
S2	S2	1	1505	Ag
S3	S3	1	1508	Ag
S4	S4	1	1516	Ag
S5	S5	1	1519	Ag
S6	S6	1	1522	Ag
S7	S7	1	1525	Ag
S8	S8	1	1527	,
ICV01	ICV01	1	1558	Ag
LLICV	LLICV	1	1608	Ag
ICB01	ICB01	1	1615	Ag
ICSA01	ICSA01	1	1619	Ag
ICSAB1	ICSAB1	1	1629	Ag
CCV01	CCV01	1	1632	Ag
CCB01	CCB01	1	1640	Ag
CRI	CRI	1	1652	Ag
Q1769-08	EB01-040925	1	1655	Ag
CCV02	CCV02	1	1720	Ag
CCB02	CCB02	1	1723	Ag
CCV03	CCV03	1	1751	Ag
CCB03	CCB03	1	1754	Ag
PB167865BL	PB167865BL	1	1807	Ag
PB167865BS	PB167865BS	1	1811	Ag
CCV04	CCV04	1	1815	Ag
CCB04	CCB04	1	1818	Ag

METAL
RAW DATA

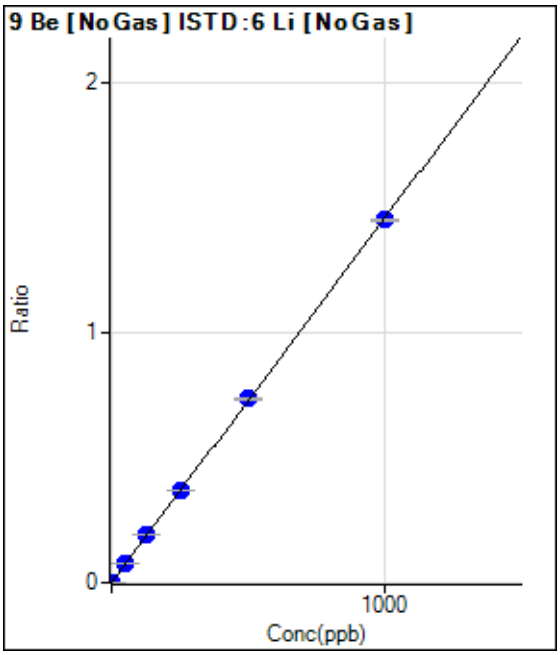
Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7041125 MS.b\
Analysis File: P7041125 MS.batch.bin
DA Date-Time: 2025-04-11 16:27:10
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-04-11 12:09:51
2	006CALS.d	S02	2025-04-11 12:16:28
3	007CALS.d	S03	2025-04-11 12:19:46
4	008CALS.d	S04	2025-04-11 12:23:02
5	009CALS.d	S05	2025-04-11 12:26:05
6	010CALS.d	S06	2025-04-11 12:29:05
7	011CALS.d	S07	2025-04-11 12:31:55
8	012CALS.d	S08	2025-04-11 12:34:43

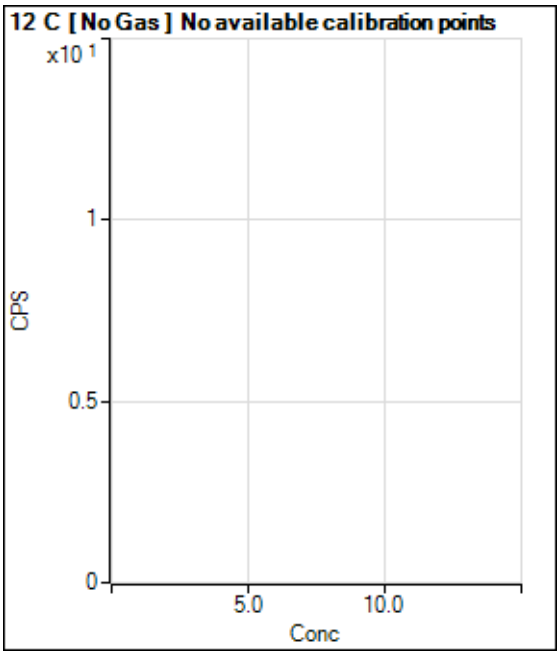
Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0001	P	35.1
2	☐	1.000	1.197	711.13	0.0018	P	6.5
3	☐	50.000	52.421	30790.57	0.0763	P	1.1
4	☐	125.000	131.077	74334.74	0.1907	P	0.6
5	☐	250.000	252.776	143380.18	0.3676	P	1.0
6	☐	500.000	504.335	273361.68	0.7334	P	0.2
7	☐	1000.000	996.257	529533.83	1.4486	P	0.3
8	☐			86.67	0.0002	P	31.0

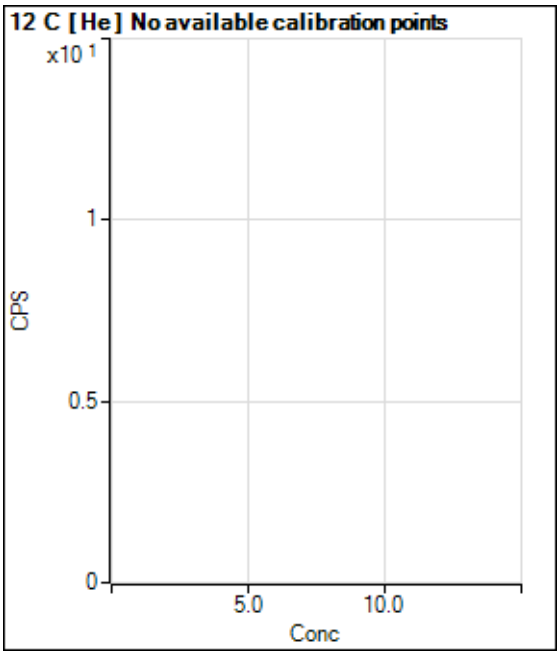
y = 0.0015 * x + 7.7113E-005
R = 1.0000
DL = 0.05586
BEC = 0.05304

Weight: <None>
Min Conc: 0

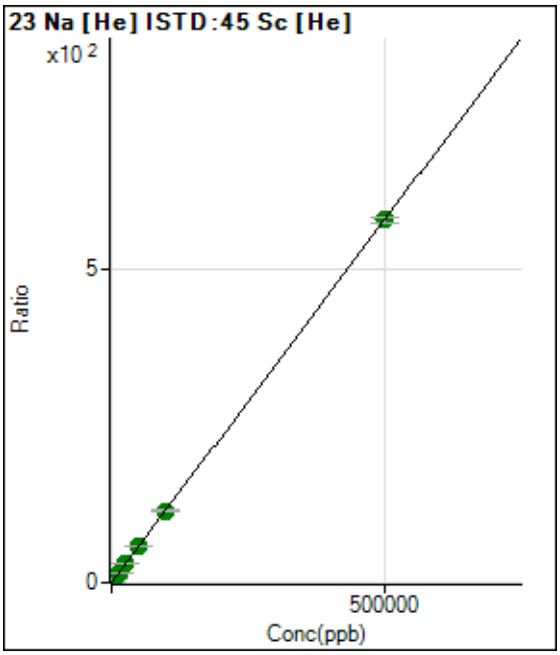


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403



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

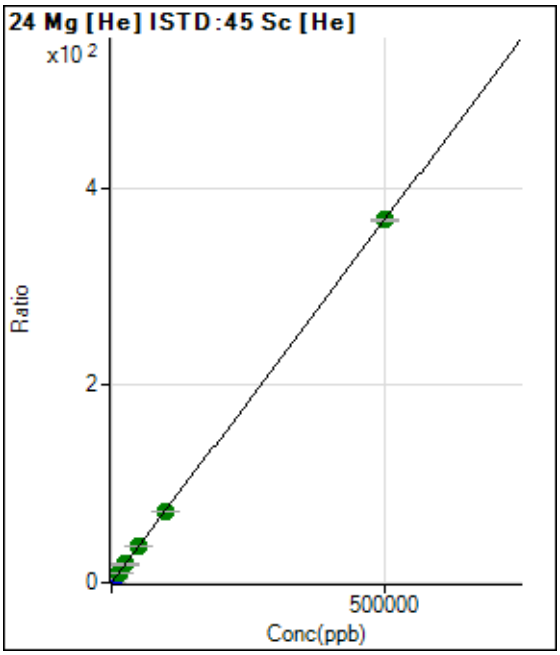


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12306.11	0.0517	P	2.7
2	☐	500.000	506.357	156462.27	0.6391	P	0.6
3	☐	5000.000	5151.258	1466026.19	6.0279	A	0.9
4	☐	12500.000	12983.022	3544534.43	15.1138	A	0.5
5	☐	25000.000	25516.607	6684852.82	29.6546	A	0.6
6	☐	50000.000	50143.540	12959897.44	58.2253	A	1.3
7	☐	100000.00	99222.704	26225135.16	115.1642	A	1.0
8	☐	500000.00	500101.68	150505073.3	580.2409	A	1.3

y = 0.0012 * x + 0.0517
R = 1.0000
DL = 3.667
BEC = 44.56

Weight: <None>
Min Conc: 0

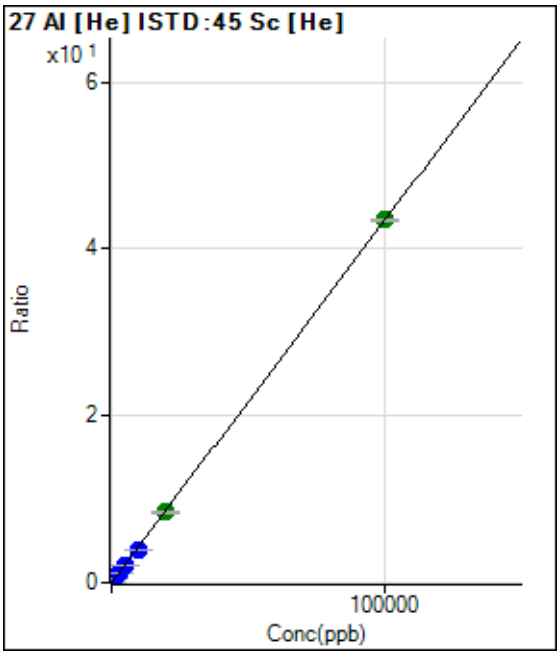
Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0007	P	9.7
2	☐	500.000	508.020	91494.66	0.3737	P	0.5
3	☐	5000.000	4835.526	863625.39	3.5512	P	0.5
4	☐	12500.000	12920.366	2224940.99	9.4874	A	0.6
5	☐	25000.000	25196.666	4170566.64	18.5012	A	1.8
6	☐	50000.000	49792.789	8138490.50	36.5607	A	2.3
7	☐	100000.00	98601.865	16486381.97	72.3983	A	1.2
8	☐	500000.00	500281.64	95289860.80	367.3282	A	0.6

y = 7.3424E-004 * x + 7.3265E-004
R = 1.0000
DL = 0.2901
BEC = 0.9978

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	20.000	19.129	2315.76	0.0095	P	4.9
3	☐	1000.000	958.030	101372.36	0.4168	P	0.4
4	☐	2500.000	2411.678	245654.30	1.0475	P	0.9
5	☐	5000.000	4709.646	460888.49	2.0446	P	0.8
6	☐	10000.000	9245.280	893162.36	4.0124	P	0.4
7	☐	20000.000	19425.078	1919693.13	8.4292	A	1.3
8	☐	100000.00	100207.60	11278236.77	43.4786	A	0.7

y = 4.3387E-004 * x + 0.0012
R = 1.0000
DL = 0.1823
BEC = 2.678

Weight: <None>
Min Conc: 0

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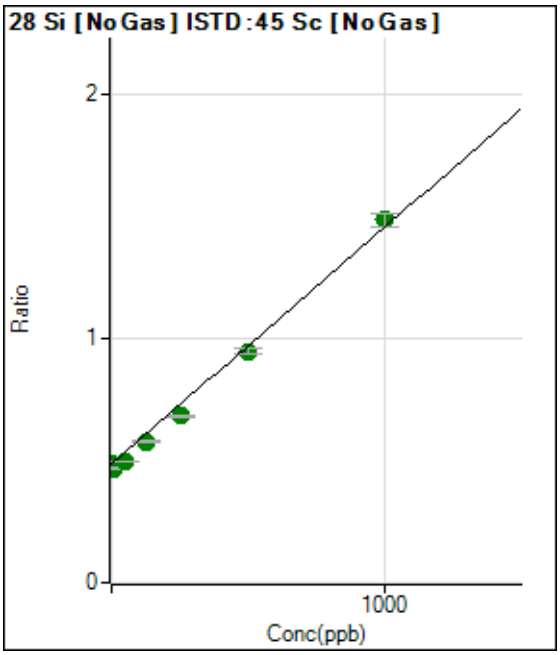

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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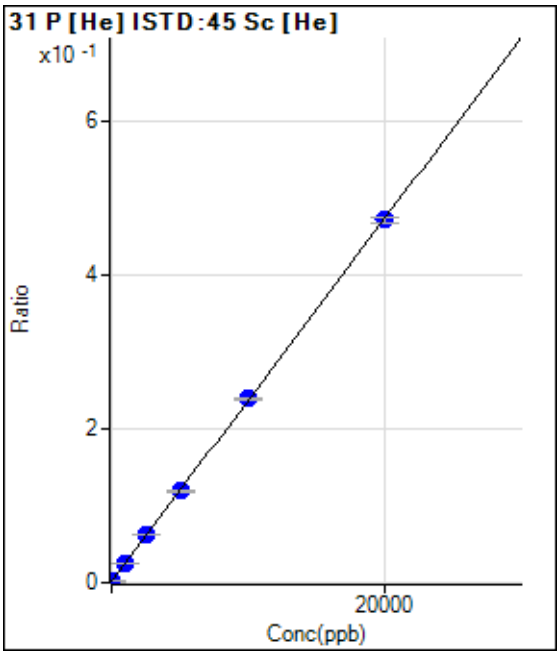
2	☐	10.000	-19.535	1302008.09	0.4674	A	2.8
3	☐	50.000	9.784	1424261.05	0.4959	A	1.0
4	☐	125.000	94.766	1568122.50	0.5783	A	1.2
5	☐	250.000	201.430	1801370.91	0.6817	A	1.7
6	☐	500.000	475.507	2361439.37	0.9475	A	2.3
7	☐	1000.000	1030.475	3763250.26	1.4858	A	3.4
8	☐			1241001.13	0.4183	A	2.0

y = 9.6984E-004 * x + 0.4864
R = 0.9986
DL = 23.34
BEC = 501.5

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	0.000	17.335	422.23	0.0017	P	2.9
3	☐	1000.000	1008.528	6107.94	0.0251	P	2.2
4	☐	2500.000	2577.394	14571.47	0.0621	P	0.5
5	☐	5000.000	5026.890	27038.43	0.1199	P	2.3
6	☐	10000.000	10075.621	53214.56	0.2391	P	1.3
7	☐	20000.000	19945.366	107474.70	0.4720	P	1.7
8	☐			261.12	0.0010	P	13.3

y = 2.3597E-005 * x + 0.0013
R = 1.0000
DL = 12.97
BEC = 55.76

Weight: <None>
Min Conc: 0

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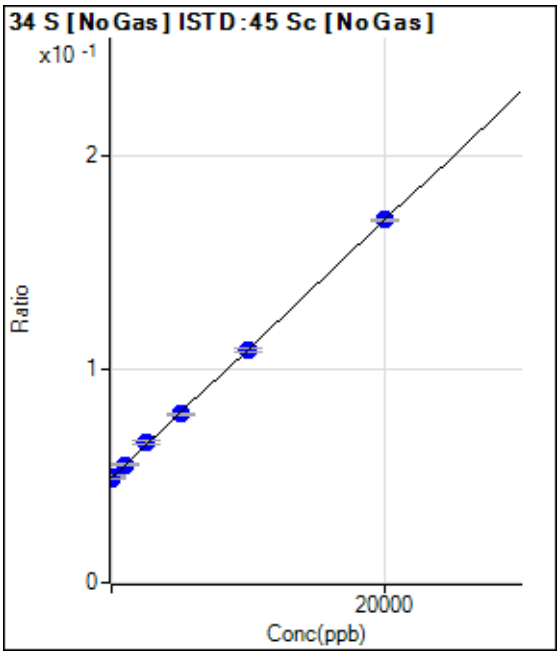
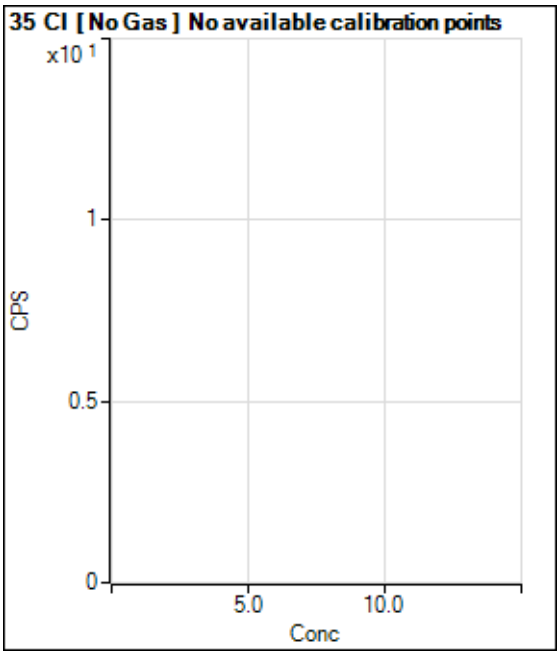


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-57.522	133205.47	0.0489	P	1.9
2	☐	0.000	57.522	138021.91	0.0496	P	2.9
3	☐	1000.000	986.194	158444.96	0.0552	P	1.5
4	☐	2500.000	2732.756	178210.44	0.0657	P	1.8
5	☐	5000.000	4954.141	209141.11	0.0791	P	0.7
6	☐	10000.000	9928.845	272067.40	0.1092	P	1.5
7	☐	20000.000	20018.638	431010.59	0.1702	P	0.5
8	☐			116827.50	0.0394	P	4.5

y = 6.0435E-006 * x + 0.0492
R = 0.9999
DL = 585.3
BEC = 8142

Weight: <None>
Min Conc: 0



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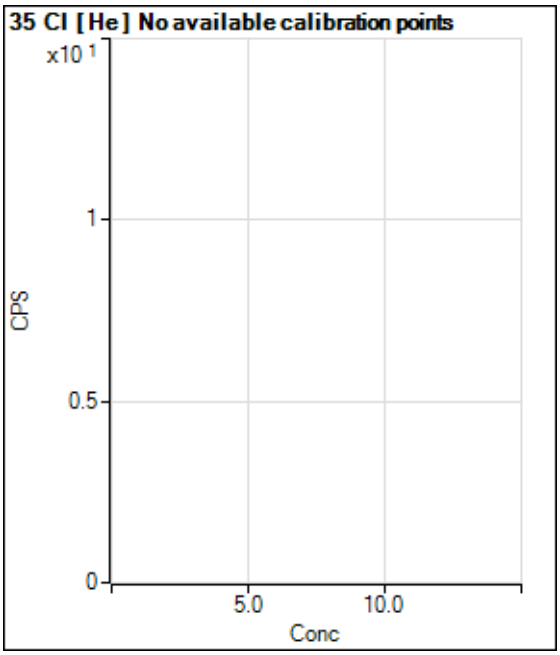

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
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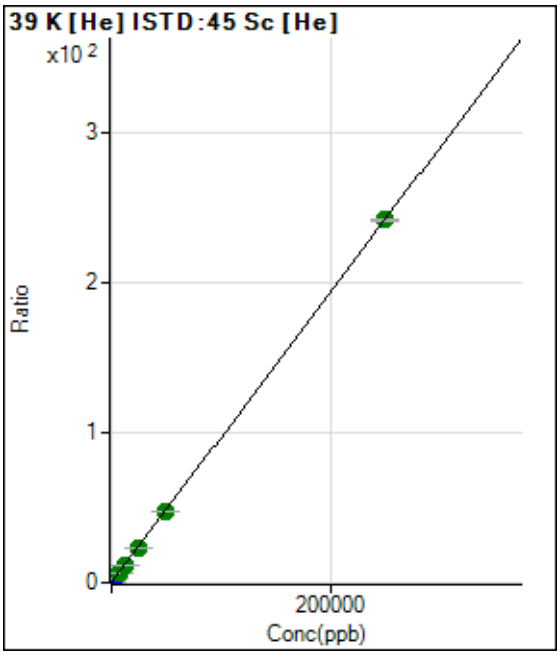
6	☐						
7	☐						
8	☐						



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1	☐	0.000	0.000	47724.54	0.2004	P	1.2
2	☐	500.000	501.989	167536.13	0.6844	P	0.6
3	☐	2500.000	2483.593	631021.22	2.5947	P	0.5
4	☐	6250.000	6201.704	1449052.34	6.1791	A	1.7
5	☐	12500.000	12067.699	2667754.06	11.8341	A	1.2
6	☐	25000.000	24237.357	5245707.94	23.5661	A	0.1
7	☐	50000.000	48851.742	10769868.17	47.2952	A	1.3
8	☐	250000.00	250328.89	62652721.85	241.5262	A	0.6

y = 9.6403E-004 * x + 0.2004
R = 1.0000
DL = 7.345
BEC = 207.9

Weight: <None>
Min Conc: 0

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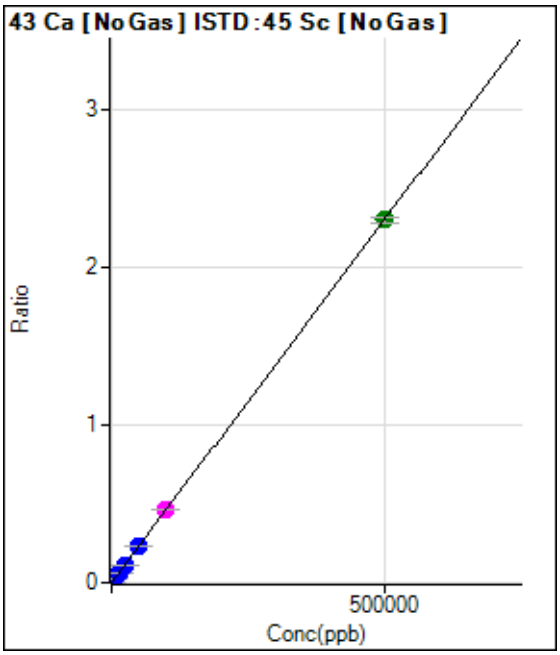
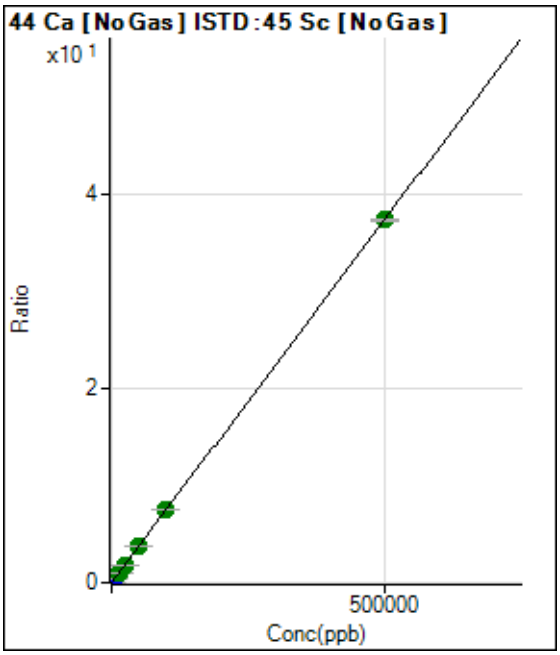


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0001	P	4.8
2	☐	500.000	533.577	7068.37	0.0025	P	5.7
3	☐	5000.000	4984.933	66082.01	0.0230	P	1.5
4	☐	12500.000	12844.753	160396.17	0.0592	P	1.4
5	☐	25000.000	24789.223	301407.50	0.1141	P	2.3
6	☐	50000.000	50512.976	578930.15	0.2324	P	0.4
7	☐	100000.00	100485.63	1170446.49	0.4622	M	0.8
8	☐	500000.00	499853.61	6817744.14	2.2986	A	1.3

y = 4.5984E-006 * x + 8.5575E-005
R = 1.0000
DL = 2.692
BEC = 18.61

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6290.33	0.0023	P	1.0
2	☐	500.000	538.812	118658.42	0.0426	P	2.9
3	☐	5000.000	4980.928	1076502.46	0.3748	P	1.6
4	☐	12500.000	12728.376	2587655.48	0.9542	A	0.6
5	☐	25000.000	24573.674	4861677.70	1.8401	A	2.8
6	☐	50000.000	50465.115	9408362.43	3.7764	A	1.2
7	☐	100000.00	99870.841	18921515.27	7.4713	A	0.7
8	☐	500000.00	499995.07	110923627.2	37.3951	A	0.8

y = 7.4786E-005 * x + 0.0023
R = 1.0000
DL = 0.896
BEC = 30.85

Weight: <None>
Min Conc: 0

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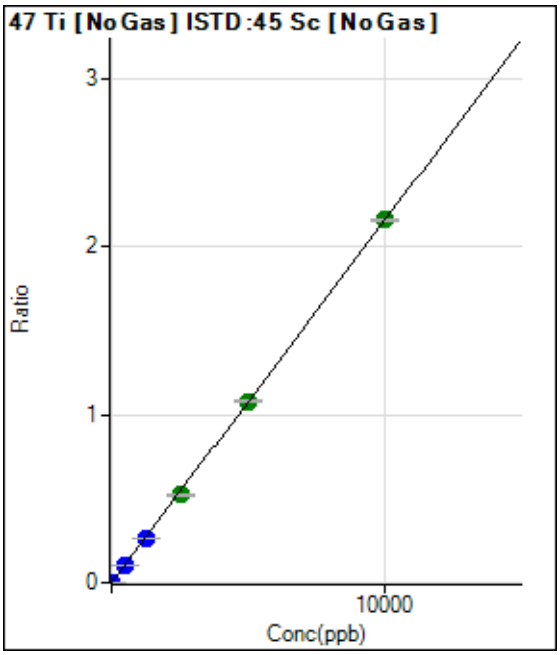
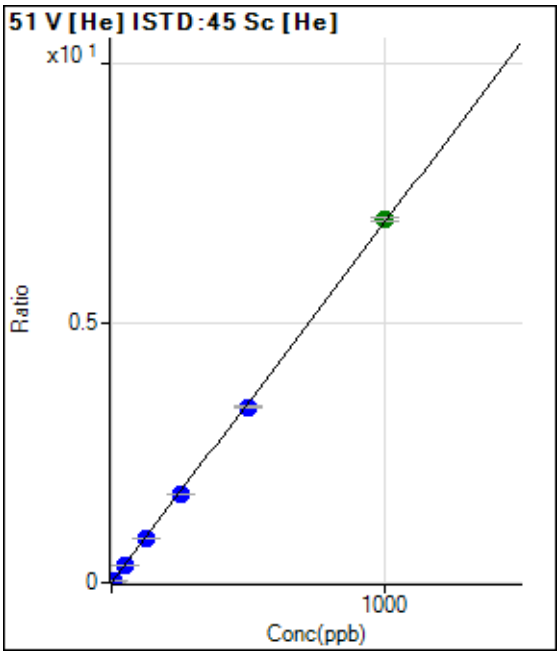


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	17.0
2	☐	5.000	5.046	3093.68	0.0011	P	6.6
3	☐	500.000	475.568	294316.44	0.1025	P	1.7
4	☐	1250.000	1219.629	712504.36	0.2628	P	1.8
5	☐	2500.000	2417.769	1376338.31	0.5209	A	1.6
6	☐	5000.000	5007.425	2687650.67	1.0788	A	0.8
7	☐	10000.000	10021.863	5467799.64	2.1590	A	0.8
8	☐			383.34	0.0001	P	21.5

y = 2.1543E-004 * x + 2.4444E-005
R = 1.0000
DL = 0.058
BEC = 0.1135

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	58.3
2	☐	5.000	5.247	8926.04	0.0365	P	1.5
3	☐	50.000	49.120	82927.38	0.3410	P	0.7
4	☐	125.000	123.875	201645.60	0.8598	P	0.8
5	☐	250.000	243.883	381599.22	1.6928	P	0.5
6	☐	500.000	488.157	754165.24	3.3883	P	1.5
7	☐	1000.000	1007.634	1592837.68	6.9940	A	1.2
8	☐			483.34	0.0019	P	8.1

y = 0.0069 * x + 3.7509E-005
R = 0.9999
DL = 0.009455
BEC = 0.005404

Weight: <None>
Min Conc: 0

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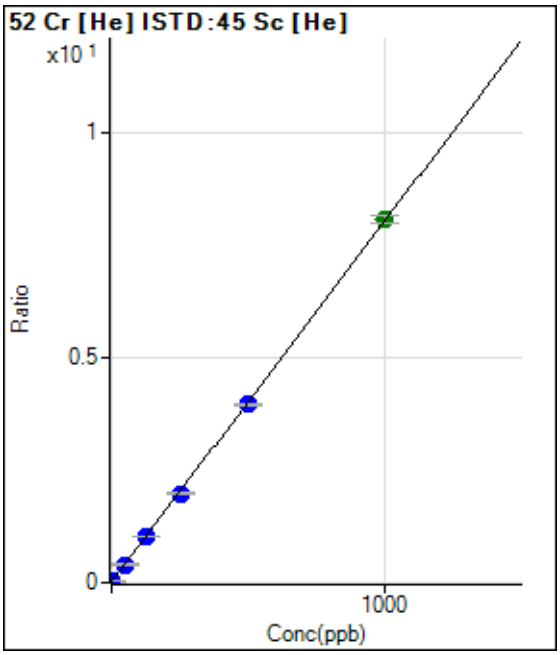
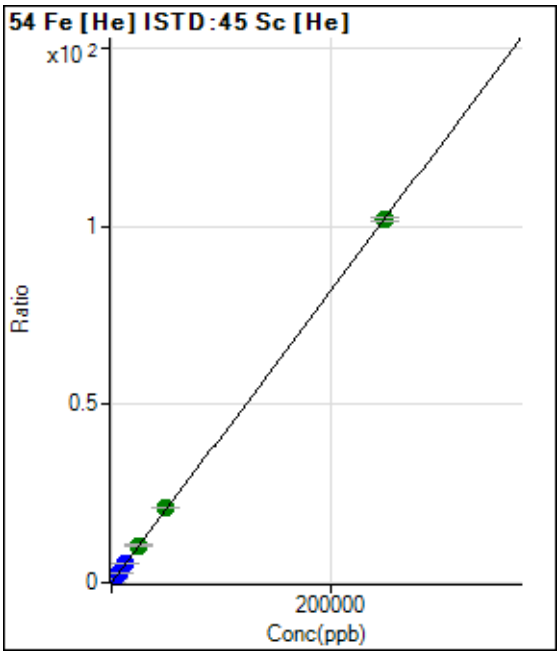


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1747.90	0.0073	P	5.1
2	☐	2.000	2.006	5740.03	0.0234	P	2.1
3	☐	50.000	49.513	98436.34	0.4048	P	0.8
4	☐	125.000	126.673	240165.21	1.0241	P	0.3
5	☐	250.000	246.264	447253.38	1.9840	P	0.5
6	☐	500.000	494.063	884330.04	3.9730	P	1.0
7	☐	1000.000	1003.718	1836357.28	8.0638	A	2.0
8	☐			19598.36	0.0756	P	1.7

y = 0.0080 * x + 0.0073
R = 1.0000
DL = 0.1388
BEC = 0.9149

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2521.35	0.0106	P	3.2
2	☐	50.000	53.665	7954.40	0.0325	P	3.1
3	☐	2500.000	2632.503	263847.74	1.0849	P	0.6
4	☐	6250.000	6575.833	631789.48	2.6941	P	1.2
5	☐	12500.000	13041.316	1202051.08	5.3326	P	1.1
6	☐	25000.000	25743.744	2340788.78	10.5163	A	0.8
7	☐	50000.000	51774.736	4814057.46	21.1393	A	0.1
8	☐	250000.00	249534.14	26417501.27	101.8427	A	0.9

y = 4.0809E-004 * x + 0.0106
R = 1.0000
DL = 2.528
BEC = 25.95

Weight: <None>
Min Conc: 0

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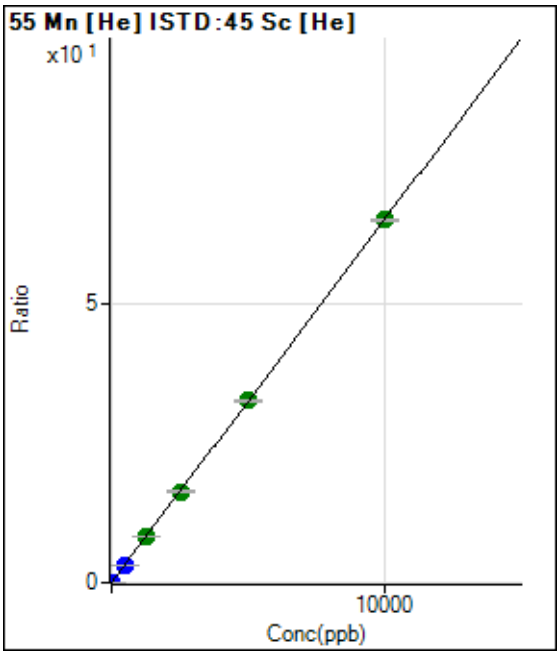
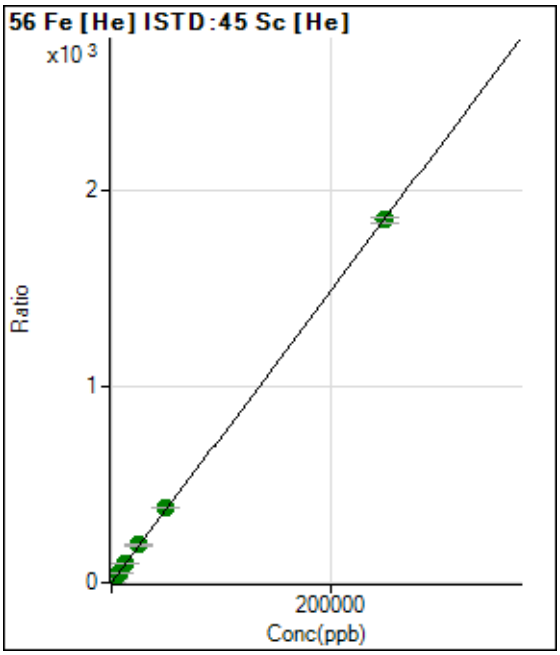


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9013.89	0.0379	P	3.1
2	☐	1.000	1.031	10911.82	0.0446	P	1.5
3	☐	500.000	488.008	781865.75	3.2149	P	0.6
4	☐	1250.000	1264.933	1940134.76	8.2730	A	1.0
5	☐	2500.000	2497.380	3673404.01	16.2966	A	1.7
6	☐	5000.000	5006.566	7263077.39	32.6321	A	1.8
7	☐	10000.000	9996.105	14828193.67	65.1155	A	0.8
8	☐			9908.91	0.0382	P	2.9

y = 0.0065 * x + 0.0379
R = 1.0000
DL = 0.5397
BEC = 5.815

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24512.35	0.1029	P	1.3
2	☐	50.000	53.482	122175.28	0.4991	P	1.2
3	☐	2500.000	2577.446	4667710.42	19.1932	A	0.5
4	☐	6250.000	6617.640	11518108.30	49.1176	A	1.6
5	☐	12500.000	12941.492	21629950.79	95.9563	A	1.1
6	☐	25000.000	25977.632	42848686.58	192.5108	A	1.5
7	☐	50000.000	51302.007	86553539.82	380.0802	A	0.8
8	☐	250000.00	249609.79	479561366.1	1,848.881	A	1.5

y = 0.0074 * x + 0.1029
R = 1.0000
DL = 0.5431
BEC = 13.9

Weight: <None>
Min Conc: 0

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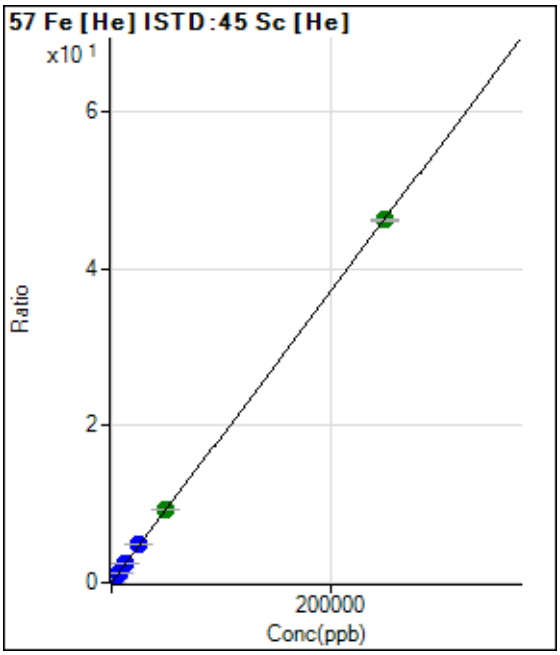
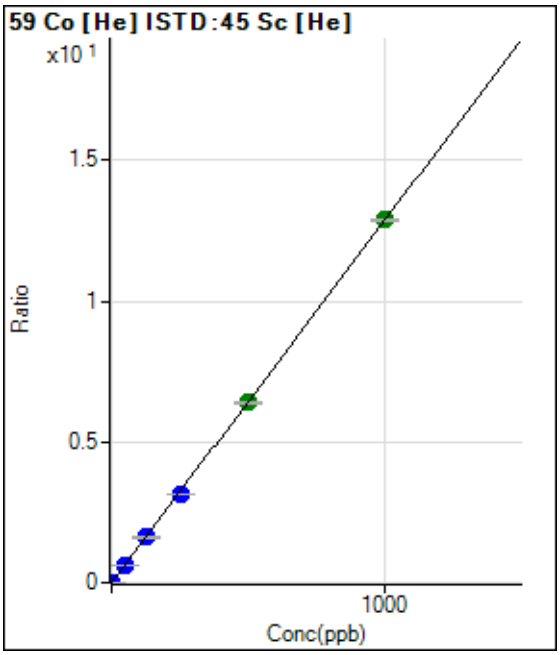


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1304.51	0.0055	P	4.9
2	☐	50.000	56.022	3876.09	0.0158	P	2.1
3	☐	2500.000	2599.390	118181.56	0.4859	P	0.5
4	☐	6250.000	6604.729	287572.19	1.2263	P	0.7
5	☐	12500.000	12989.314	542447.19	2.4064	P	0.4
6	☐	25000.000	26107.906	1075293.05	4.8312	P	1.7
7	☐	50000.000	50631.107	2132458.44	9.3639	A	0.4
8	☐	250000.00	249728.65	11974989.82	46.1643	A	0.6

y = 1.8484E-004 * x + 0.0055
R = 1.0000
DL = 4.32
BEC = 29.63

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0002	P	10.5
2	☐	1.000	1.081	3458.21	0.0141	P	4.9
3	☐	50.000	49.797	155773.98	0.6405	P	1.9
4	☐	125.000	125.138	377405.94	1.6093	P	0.7
5	☐	250.000	245.561	711816.47	3.1578	P	0.9
6	☐	500.000	498.204	1425984.04	6.4064	A	1.1
7	☐	1000.000	1002.001	2934121.24	12.8845	A	0.9
8	☐			8725.94	0.0336	P	1.2

y = 0.0129 * x + 2.3354E-004
R = 1.0000
DL = 0.00571
BEC = 0.01816

Weight: <None>
Min Conc: 0

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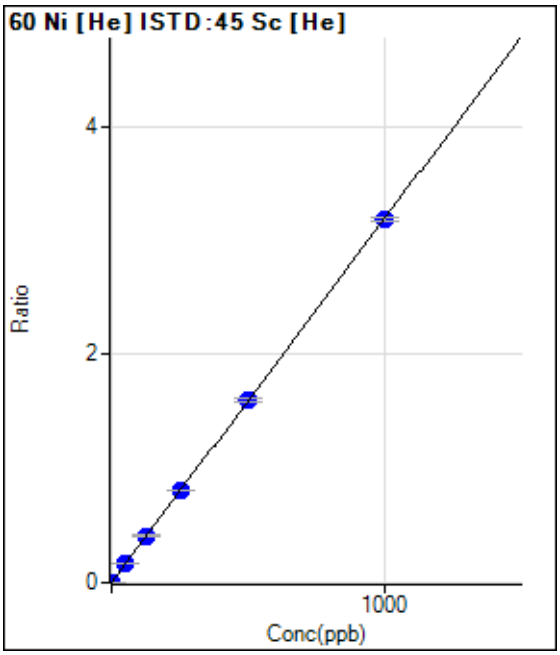
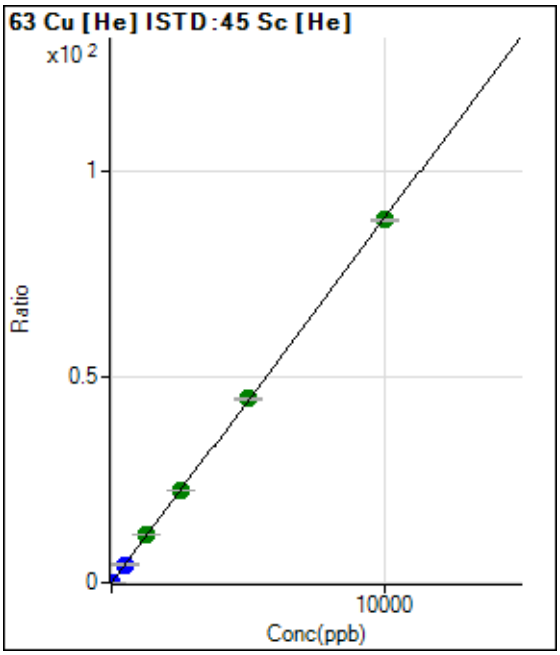


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	415.57	0.0017	P	7.3
2	☐	1.000	1.138	1315.63	0.0054	P	10.6
3	☐	50.000	51.408	40306.27	0.1657	P	0.5
4	☐	125.000	128.941	96863.85	0.4131	P	1.3
5	☐	250.000	253.716	182833.71	0.8111	P	0.7
6	☐	500.000	503.363	357773.58	1.6074	P	1.8
7	☐	1000.000	996.826	724496.69	3.1815	P	0.9
8	☐			4698.55	0.0181	P	2.3

y = 0.0032 * x + 0.0017
R = 1.0000
DL = 0.1196
BEC = 0.5473

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1729.00	0.0073	P	8.6
2	☐	2.000	2.141	6419.21	0.0262	P	1.7
3	☐	500.000	499.742	1077622.13	4.4311	P	0.5
4	☐	1250.000	1300.981	2702537.84	11.5238	A	0.3
5	☐	2500.000	2540.538	5071336.45	22.4967	A	0.7
6	☐	5000.000	5049.953	9951909.15	44.7106	A	1.0
7	☐	10000.000	9958.529	20076786.09	88.1624	A	0.6
8	☐			7545.31	0.0291	P	2.1

y = 0.0089 * x + 0.0073
R = 1.0000
DL = 0.2125
BEC = 0.8209

Weight: <None>
Min Conc: 0

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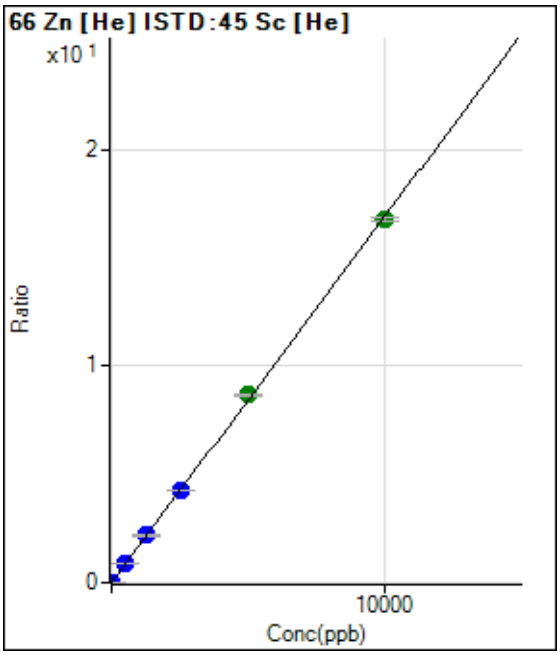
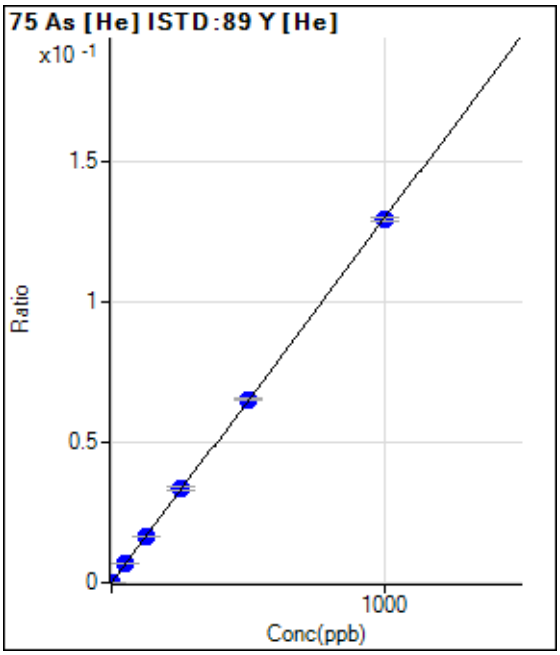


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	198.89	0.0008	P	12.7
2	☐	5.000	5.272	2382.44	0.0097	P	0.9
3	☐	500.000	507.303	208417.71	0.8570	P	1.0
4	☐	1250.000	1289.054	510376.82	2.1764	P	1.2
5	☐	2500.000	2534.113	964291.41	4.2777	P	0.3
6	☐	5000.000	5134.720	1929154.35	8.6668	A	0.6
7	☐	10000.000	9918.864	3812280.22	16.7412	A	1.1
8	☐			24475.70	0.0944	P	2.2

y = 0.0017 * x + 8.3420E-004
R = 0.9999
DL = 0.1877
BEC = 0.4943

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	1.000	1.237	335.56	0.0002	P	4.1
3	☐	50.000	51.839	14021.14	0.0067	P	2.0
4	☐	125.000	128.825	33947.66	0.0167	P	0.6
5	☐	250.000	257.845	64646.77	0.0335	P	2.7
6	☐	500.000	503.477	126975.39	0.0653	P	1.8
7	☐	1000.000	995.730	257106.00	0.1292	P	1.2
8	☐			147.78	0.0001	P	22.3

y = 1.2976E-004 * x + 5.4546E-007
R = 1.0000
DL = 0.02184
BEC = 0.004204

Weight: <None>
Min Conc: 0

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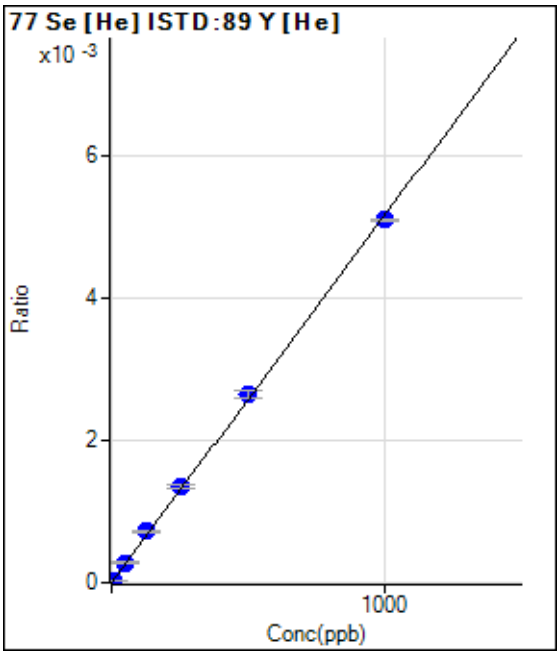
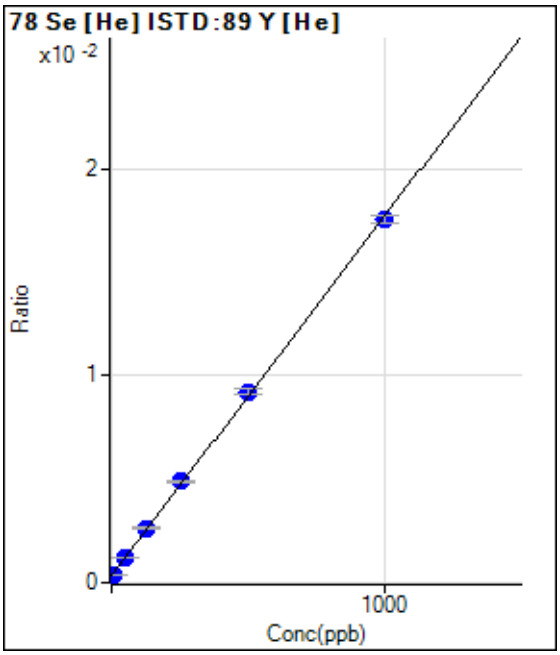


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.998	64.44	0.0000	P	20.9
3	☐	50.000	53.470	576.69	0.0003	P	9.5
4	☐	125.000	139.298	1462.31	0.0007	P	4.8
5	☐	250.000	262.188	2618.03	0.0014	P	5.2
6	☐	500.000	513.272	5156.51	0.0027	P	3.6
7	☐	1000.000	988.351	10169.12	0.0051	P	0.6
8	☐			2.22	0.0000	P	173.

y = 5.1700E-006 * x + 0.0000E+000
R = 0.9997
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	661.13	0.0003	P	2.2
2	☐	5.000	3.671	823.37	0.0004	P	9.6
3	☐	50.000	48.971	2463.56	0.0012	P	1.2
4	☐	125.000	131.154	5297.67	0.0026	P	3.9
5	☐	250.000	261.869	9429.76	0.0049	P	3.0
6	☐	500.000	512.051	17925.38	0.0092	P	2.6
7	☐	1000.000	990.296	34878.85	0.0175	P	2.0
8	☐			657.80	0.0003	P	1.8

y = 1.7367E-005 * x + 3.3122E-004
R = 0.9998
DL = 1.24
BEC = 19.07

Weight: <None>
Min Conc: 0

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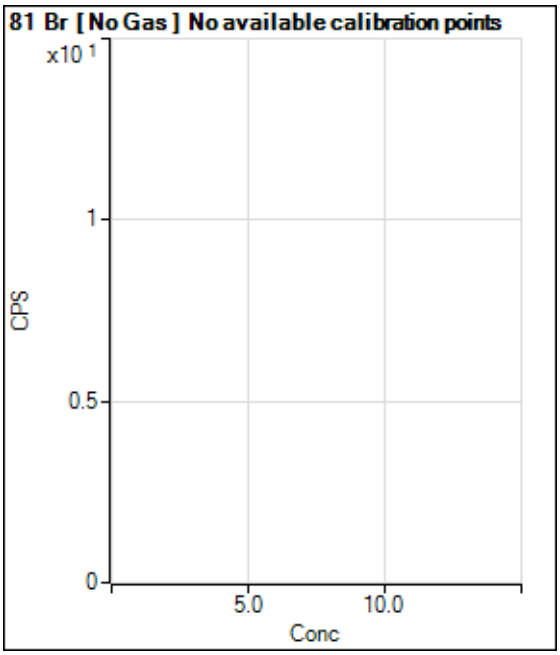
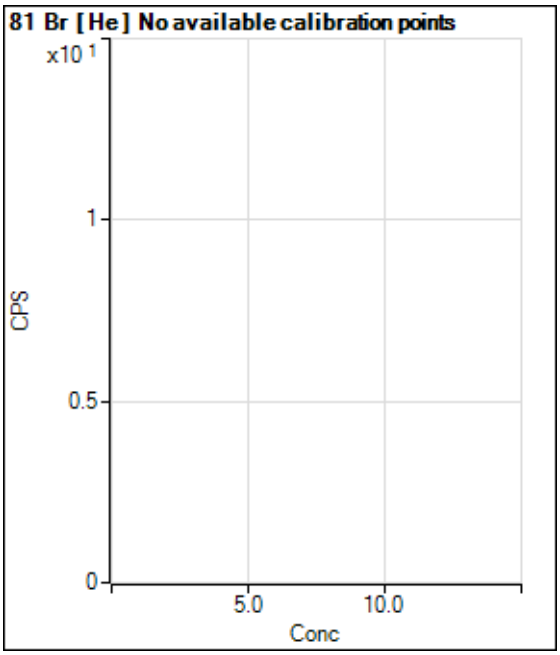


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			26653.05		P	1.4
2	☐			27171.75		P	0.3
3	☐			27059.37		P	0.7
4	☐			25554.48		P	0.7
5	☐			24508.27		P	1.2
6	☐			24565.00		P	2.7
7	☐			26008.58		P	2.1
8	☐			29053.17		P	2.5



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			165.56		P	18.0
2	☐			172.22		P	14.8
3	☐			171.11		P	20.8
4	☐			177.78		P	2.9
5	☐			175.56		P	19.8
6	☐			180.00		P	18.2
7	☐			180.00		P	8.5
8	☐			174.45		P	17.1

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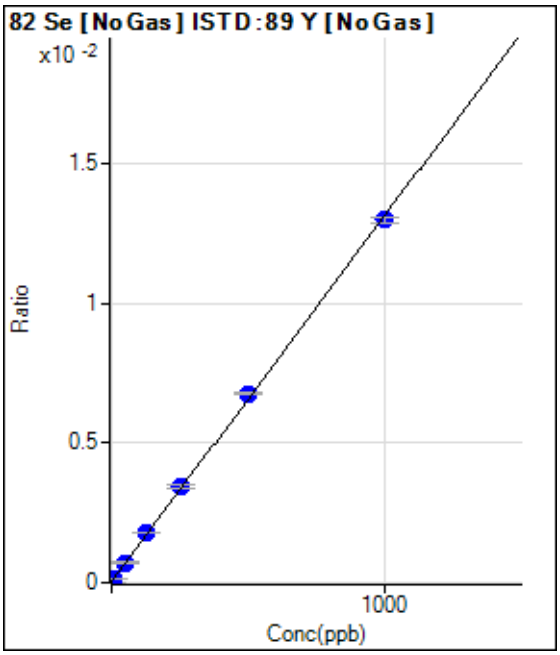

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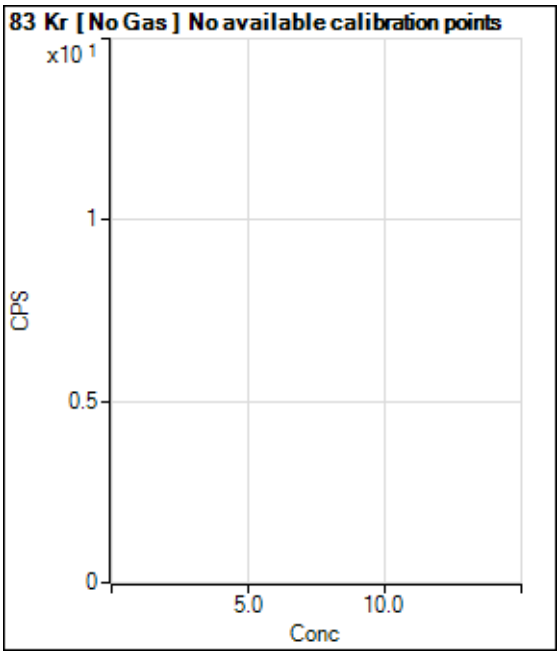
1	☐	0.000	0.000	222.64	0.0000	P	17.8
2	☐	5.000	5.900	789.92	0.0001	P	3.8
3	☐	50.000	52.649	5427.05	0.0007	P	2.5
4	☐	125.000	132.283	12764.60	0.0018	P	0.7
5	☐	250.000	259.408	24162.62	0.0034	P	3.3
6	☐	500.000	514.507	45981.41	0.0068	P	1.1
7	☐	1000.000	989.347	90099.71	0.0130	P	1.7
8	☐			421.08	0.0001	P	4.3

y = 1.3116E-005 * x + 3.0767E-005
R = 0.9998
DL = 1.252
BEC = 2.346

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			355.57		P	6.7
2	☐			331.12		P	12.1
3	☐			322.23		P	5.2
4	☐			325.56		P	12.3
5	☐			304.45		P	7.8
6	☐			300.01		P	5.1
7	☐			345.56		P	8.4
8	☐			371.12		P	7.5

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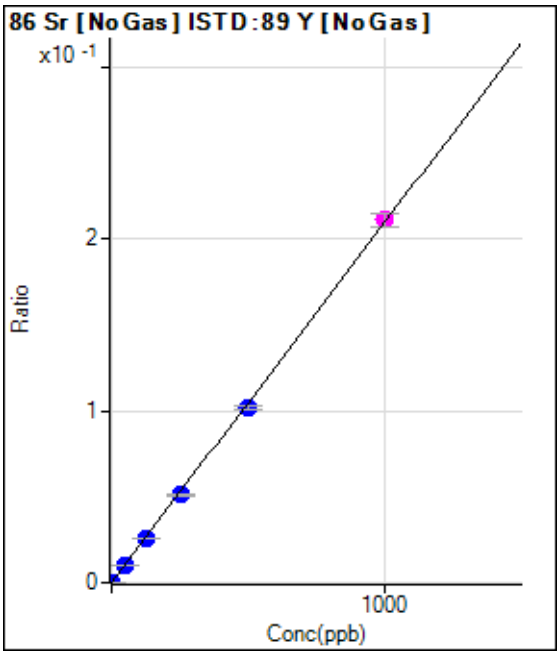
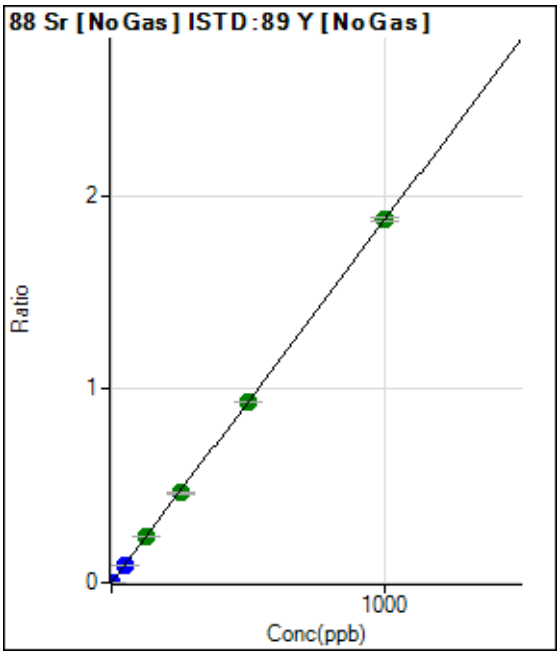


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	528.90	0.0001	P	6.1
2	☐	1.000	1.054	2145.74	0.0003	P	4.8
3	☐	50.000	48.890	77560.48	0.0103	P	1.6
4	☐	125.000	125.059	189795.02	0.0263	P	0.3
5	☐	250.000	244.605	360950.29	0.0513	P	2.6
6	☐	500.000	486.684	691656.20	0.1020	P	1.6
7	☐	1000.000	1008.055	1462267.50	0.2111	M	4.0
8	☐			6057.97	0.0008	P	1.5

y = 2.0936E-004 * x + 7.3103E-005
R = 0.9999
DL = 0.06426
BEC = 0.3492

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	9.3
2	☐	1.000	1.056	14541.74	0.0020	P	3.6
3	☐	50.000	47.952	676401.78	0.0899	P	1.6
4	☐	125.000	125.982	1707205.29	0.2362	A	0.8
5	☐	250.000	248.746	3282056.65	0.4663	A	2.6
6	☐	500.000	498.614	6340256.64	0.9347	A	0.9
7	☐	1000.000	1000.986	12997929.39	1.8764	A	1.1
8	☐			48913.39	0.0061	P	0.8

y = 0.0019 * x + 1.0909E-005
R = 1.0000
DL = 0.001626
BEC = 0.00582

Weight: <None>
Min Conc: 0

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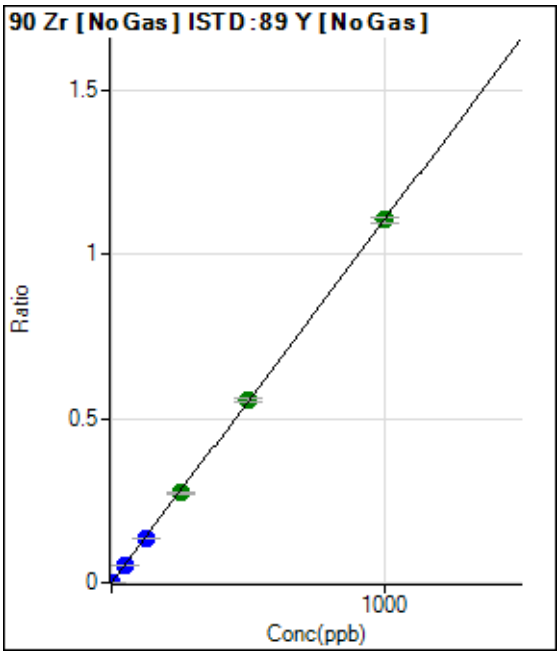
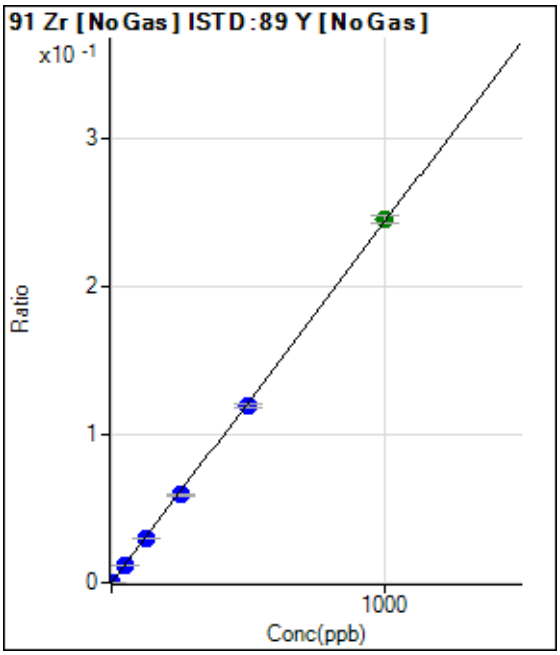


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	282.23	0.0000	P	20.5
2	☐	1.000	1.028	8580.36	0.0012	P	3.7
3	☐	50.000	48.200	401116.49	0.0533	P	1.9
4	☐	125.000	121.794	973438.63	0.1347	P	0.5
5	☐	250.000	247.091	1922428.08	0.2731	A	2.9
6	☐	500.000	502.875	3770765.47	0.5559	A	1.4
7	☐	1000.000	999.780	7654536.97	1.1051	A	1.3
8	☐			4242.88	0.0005	P	3.8

y = 0.0011 * x + 3.9044E-005
R = 1.0000
DL = 0.02171
BEC = 0.03533

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0000	P	8.3
2	☐	1.000	1.079	1985.71	0.0003	P	10.0
3	☐	50.000	48.207	88474.47	0.0118	P	1.5
4	☐	125.000	123.624	217886.31	0.0301	P	0.0
5	☐	250.000	243.284	417412.02	0.0593	P	3.1
6	☐	500.000	490.655	811216.00	0.1196	P	1.5
7	☐	1000.000	1006.613	1699510.01	0.2454	A	2.3
8	☐			932.26	0.0001	P	6.2

y = 2.4374E-004 * x + 9.2142E-006
R = 0.9999
DL = 0.009441
BEC = 0.0378

Weight: <None>
Min Conc: 0

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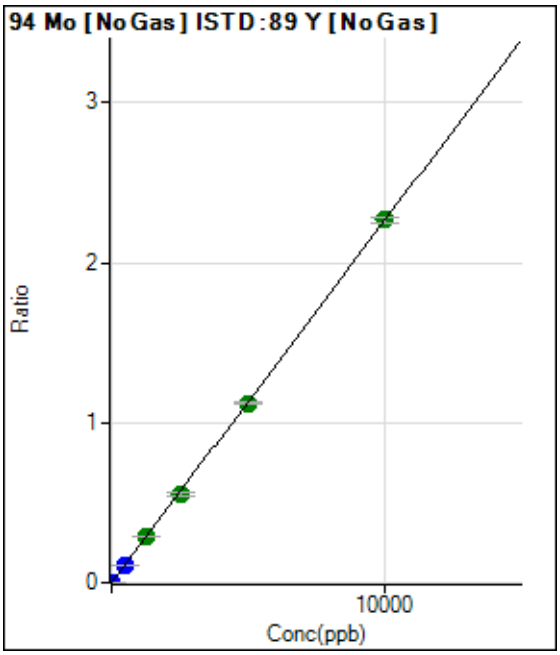
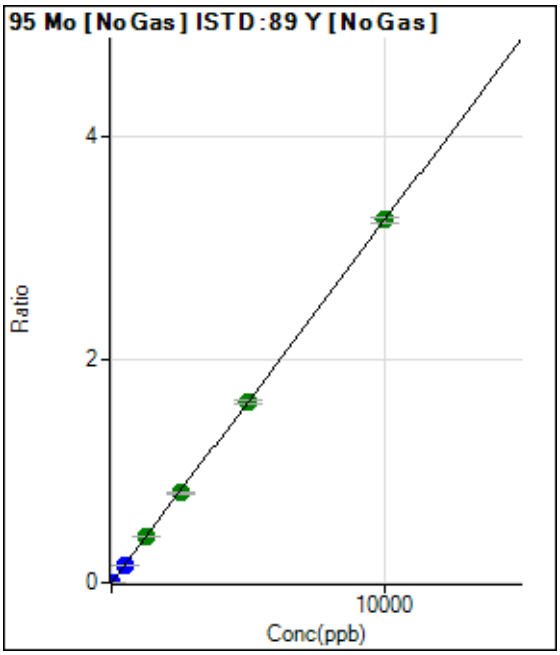


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0000	P	12.1
2	☐	5.000	6.193	10350.40	0.0014	P	7.6
3	☐	500.000	480.796	818322.46	0.1088	P	1.5
4	☐	1250.000	1254.398	2051051.39	0.2837	A	0.8
5	☐	2500.000	2451.232	3902208.62	0.5544	A	2.8
6	☐	5000.000	4968.414	7622578.77	1.1238	A	1.3
7	☐	10000.000	10028.395	15712355.74	2.2682	A	1.6
8	☐			4163.97	0.0005	P	4.4

y = 2.2618E-004 * x + 1.7818E-005
R = 1.0000
DL = 0.02865
BEC = 0.07878

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	55.6
2	☐	5.000	5.239	12464.27	0.0017	P	5.2
3	☐	500.000	478.871	1169797.52	0.1555	P	1.7
4	☐	1250.000	1261.171	2960050.41	0.4095	A	0.6
5	☐	2500.000	2468.792	5641355.96	0.8015	A	2.9
6	☐	5000.000	4988.224	10985288.03	1.6195	A	1.8
7	☐	10000.000	10013.350	22518728.55	3.2510	A	1.4
8	☐			3217.05	0.0004	P	5.7

y = 3.2466E-004 * x + 6.4477E-006
R = 1.0000
DL = 0.03312
BEC = 0.01986

Weight: <None>
Min Conc: 0

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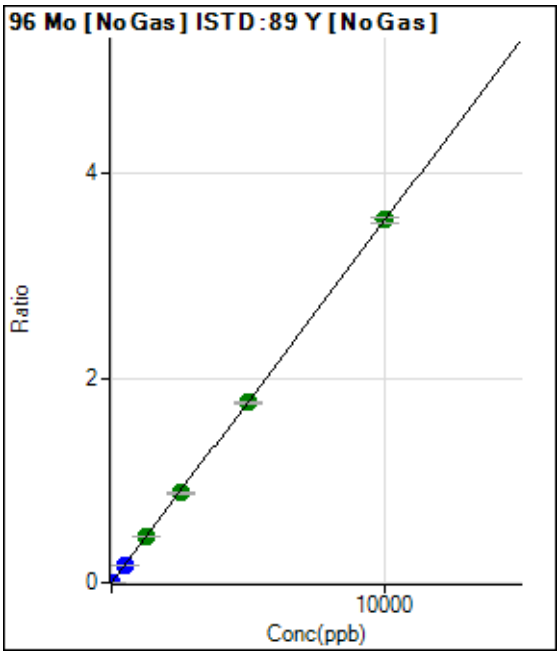
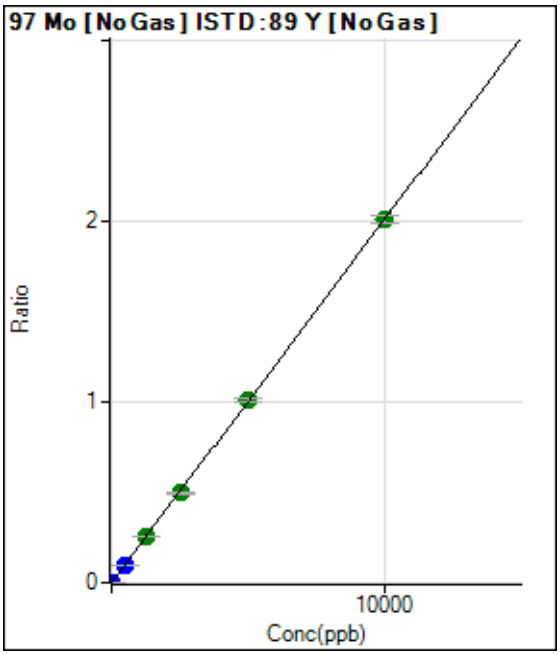


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.67	0.0000	P	22.2
2	☐	5.000	5.261	13754.31	0.0019	P	4.0
3	☐	500.000	481.110	1281323.09	0.1703	P	1.4
4	☐	1250.000	1261.101	3226670.30	0.4464	A	0.2
5	☐	2500.000	2481.323	6181486.71	0.8782	A	2.4
6	☐	5000.000	4968.381	11926726.21	1.7585	A	1.7
7	☐	10000.000	10020.035	24565853.24	3.5464	A	1.7
8	☐			16701.88	0.0021	P	0.7

y = 3.5393E-004 * x + 2.1650E-005
R = 1.0000
DL = 0.04083
BEC = 0.06117

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	101.
2	☐	5.000	5.194	7666.53	0.0010	P	1.4
3	☐	500.000	485.759	733761.39	0.0975	P	2.1
4	☐	1250.000	1260.181	1828975.94	0.2530	A	1.2
5	☐	2500.000	2472.206	3493206.58	0.4963	A	2.9
6	☐	5000.000	5032.712	6853547.12	1.0104	A	1.4
7	☐	10000.000	9990.032	13892637.43	2.0056	A	2.0
8	☐			2317.98	0.0003	P	5.1

y = 2.0076E-004 * x + 6.4479E-006
R = 1.0000
DL = 0.09734
BEC = 0.03212

Weight: <None>
Min Conc: 0

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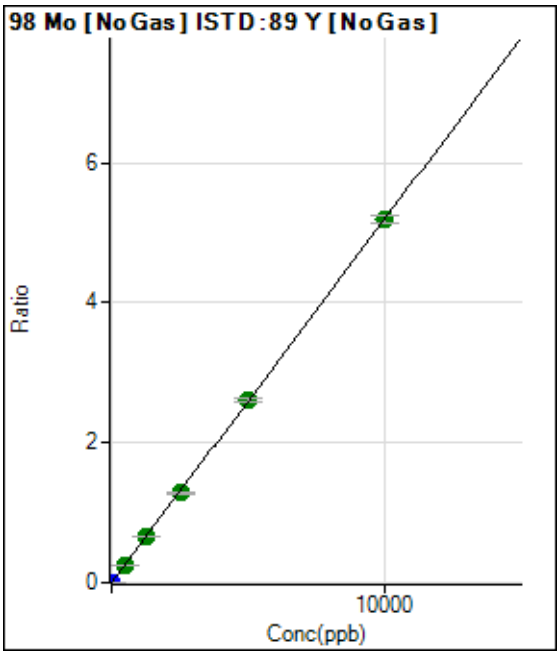
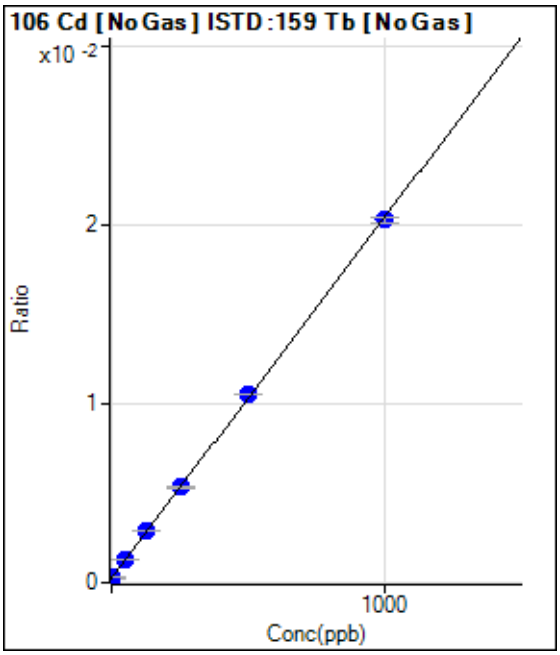


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	95.56	0.0000	P	40.2
2	☐	5.000	5.189	19757.91	0.0027	P	5.2
3	☐	500.000	492.162	1921854.36	0.2554	A	1.3
4	☐	1250.000	1269.090	4761214.62	0.6586	A	1.1
5	☐	2500.000	2476.213	9045547.29	1.2851	A	2.1
6	☐	5000.000	5037.553	17732959.46	2.6143	A	1.4
7	☐	10000.000	9985.176	35895558.91	5.1820	A	1.9
8	☐			5046.47	0.0006	P	0.5

y = 5.1897E-004 * x + 1.3202E-005
R = 1.0000
DL = 0.03068
BEC = 0.02544

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1600.10	0.0003	P	1.6
2	☐	1.000	1.059	1737.90	0.0003	P	5.0
3	☐	50.000	53.076	8450.31	0.0013	P	0.3
4	☐	125.000	130.799	17937.83	0.0029	P	1.1
5	☐	250.000	251.883	32626.64	0.0053	P	2.3
6	☐	500.000	510.105	62099.83	0.0105	P	0.2
7	☐	1000.000	993.598	122921.69	0.0203	P	1.6
8	☐			1782.36	0.0003	P	1.5

y = 2.0159E-005 * x + 2.6104E-004
R = 0.9999
DL = 0.6296
BEC = 12.95

Weight: <None>
Min Conc: 0

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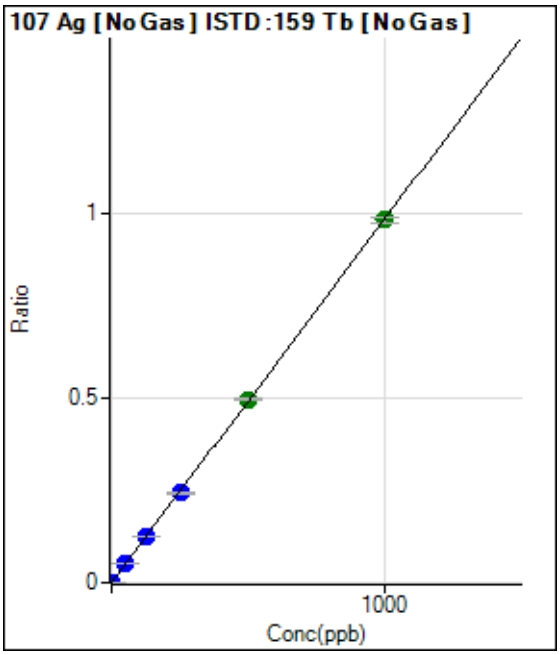
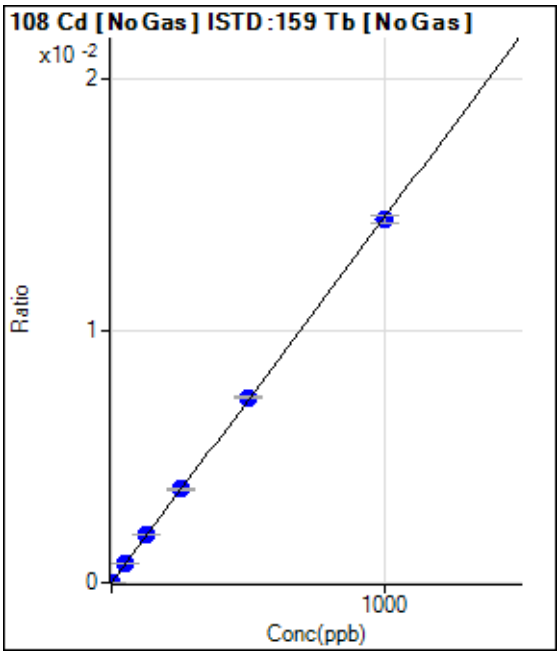


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	35.5
2	☐	1.000	1.088	6624.90	0.0011	P	1.9
3	☐	50.000	51.539	321914.43	0.0507	P	0.3
4	☐	125.000	128.275	781098.96	0.1262	P	0.5
5	☐	250.000	246.283	1480574.35	0.2423	P	1.1
6	☐	500.000	504.025	2920024.71	0.4958	A	1.5
7	☐	1000.000	998.430	5949647.27	0.9822	A	1.9
8	☐			438.90	0.0001	P	2.8

y = 9.8369E-004 * x + 6.3415E-006
R = 1.0000
DL = 0.006861
BEC = 0.006447

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.8
2	☐	1.000	1.134	104.45	0.0000	P	16.5
3	☐	50.000	52.367	4820.85	0.0008	P	1.6
4	☐	125.000	132.503	11888.29	0.0019	P	2.3
5	☐	250.000	256.175	22690.00	0.0037	P	0.9
6	☐	500.000	507.878	43344.59	0.0074	P	1.9
7	☐	1000.000	993.461	87205.53	0.0144	P	2.0
8	☐			46.67	0.0000	P	26.2

y = 1.4490E-005 * x + 5.4146E-007
R = 0.9999
DL = 0.1119
BEC = 0.03737

Weight: <None>
Min Conc: 0

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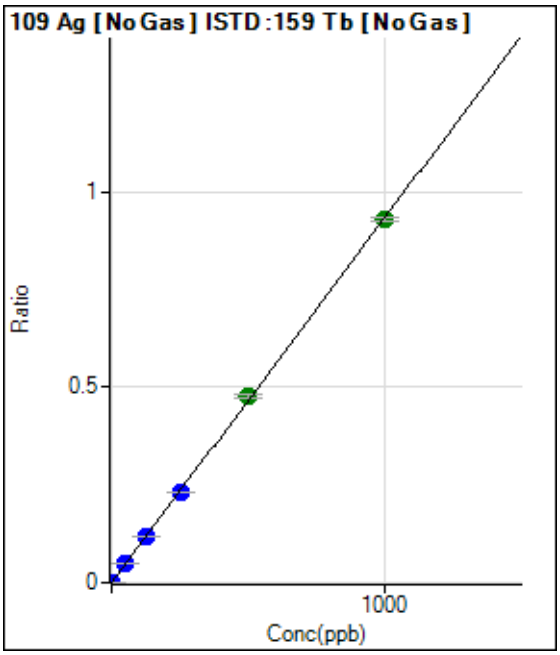
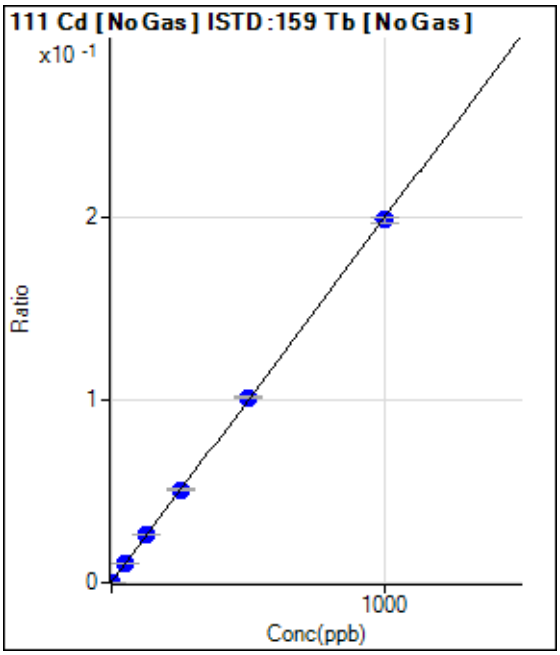


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.45	0.0000	P	28.2
2	☐	1.000	1.096	6309.21	0.0010	P	1.2
3	☐	50.000	51.512	304827.79	0.0480	P	0.2
4	☐	125.000	128.616	742012.27	0.1199	P	0.2
5	☐	250.000	246.550	1404316.82	0.2298	P	0.8
6	☐	500.000	510.133	2800040.27	0.4754	A	1.9
7	☐	1000.000	995.268	5619312.07	0.9276	A	1.2
8	☐			378.90	0.0001	P	15.7

y = 9.3200E-004 * x + 3.9870E-006
R = 0.9999
DL = 0.003615
BEC = 0.004278

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1127.74	0.0002	P	1.7
2	☐	1.000	1.138	2534.61	0.0004	P	1.7
3	☐	50.000	52.932	68400.69	0.0108	P	1.4
4	☐	125.000	132.018	164626.21	0.0266	P	0.1
5	☐	250.000	254.099	311789.08	0.0510	P	1.9
6	☐	500.000	507.575	599129.75	0.1017	P	0.7
7	☐	1000.000	994.164	1205967.86	0.1991	P	1.9
8	☐			1414.98	0.0002	P	0.9

y = 2.0006E-004 * x + 1.8397E-004
R = 0.9999
DL = 0.04733
BEC = 0.9196

Weight: <None>
Min Conc: 0

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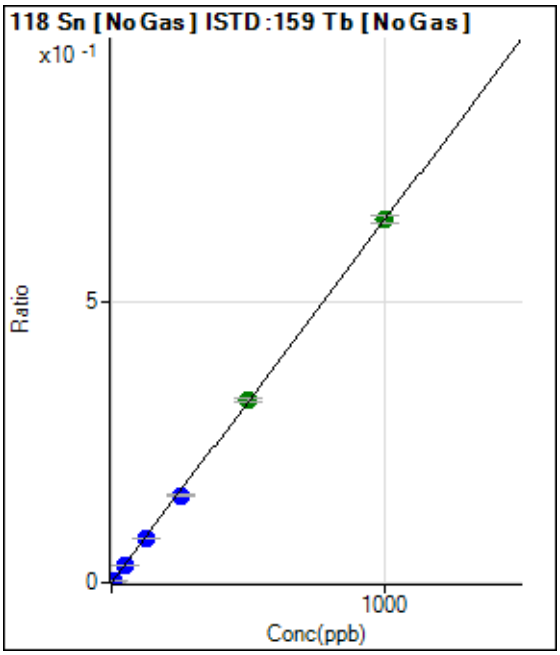
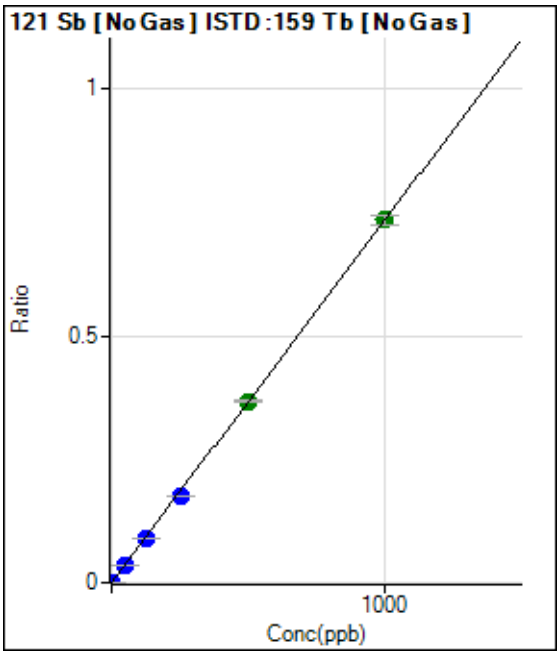


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	668.91	0.0001	P	12.4
2	☐	5.000	5.187	21279.17	0.0035	P	1.7
3	☐	50.000	48.880	201031.40	0.0317	P	0.8
4	☐	125.000	123.907	495794.50	0.0801	P	0.7
5	☐	250.000	239.165	944236.32	0.1545	P	2.0
6	☐	500.000	503.499	1914952.92	0.3252	A	1.4
7	☐	1000.000	1001.151	3915942.16	0.6464	A	2.2
8	☐			1338.97	0.0002	P	5.9

y = 6.4557E-004 * x + 1.0917E-004
R = 0.9999
DL = 0.06291
BEC = 0.1691

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	28.9
2	☐	2.000	2.102	9511.01	0.0015	P	2.6
3	☐	50.000	48.856	227634.39	0.0359	P	1.2
4	☐	125.000	123.545	561186.33	0.0907	P	0.8
5	☐	250.000	239.937	1076055.69	0.1761	P	1.1
6	☐	500.000	501.779	2168530.13	0.3682	A	1.4
7	☐	1000.000	1001.865	4453417.23	0.7352	A	2.5
8	☐			2770.30	0.0004	P	6.6

y = 7.3381E-004 * x + 3.2622E-006
R = 0.9999
DL = 0.003849
BEC = 0.004446

Weight: <None>
Min Conc: 0

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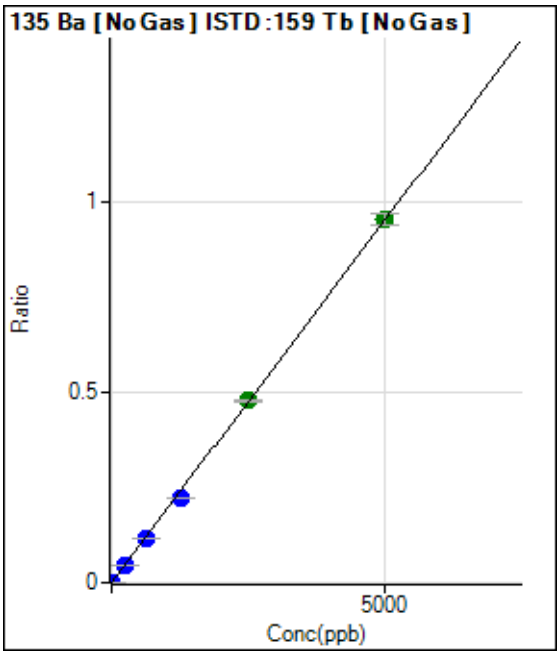
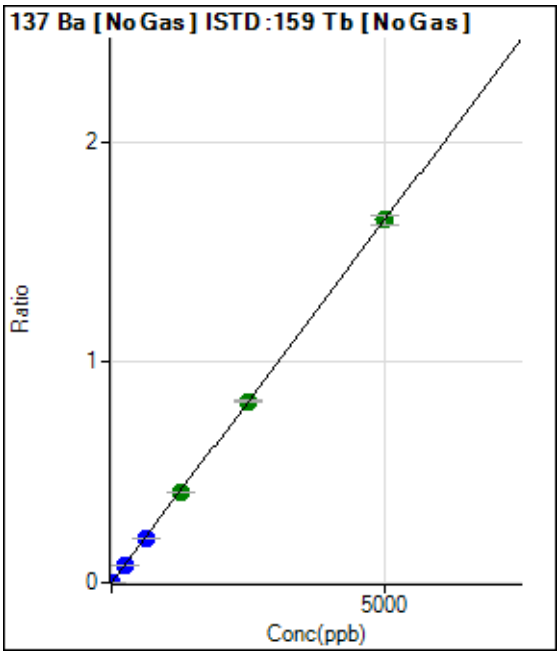


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	24.4
2	☐	10.000	10.130	11870.57	0.0019	P	2.1
3	☐	250.000	239.227	288936.22	0.0455	P	1.3
4	☐	625.000	602.793	709785.48	0.1147	P	0.9
5	☐	1250.000	1170.697	1361015.67	0.2227	P	1.2
6	☐	2500.000	2520.671	2824030.38	0.4795	A	1.2
7	☐	5000.000	5012.805	5776304.92	0.9536	A	3.1
8	☐			2589.15	0.0004	P	2.2

y = 1.9023E-004 * x + 2.1729E-006
R = 0.9999
DL = 0.008356
BEC = 0.01142

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0000	P	12.4
2	☐	10.000	10.505	21278.23	0.0035	P	3.4
3	☐	250.000	241.020	503028.46	0.0792	P	0.9
4	☐	625.000	607.157	1235417.00	0.1996	P	0.5
5	☐	1250.000	1245.075	2501269.46	0.4093	A	0.4
6	☐	2500.000	2499.066	4837975.00	0.8215	A	0.7
7	☐	5000.000	5004.376	9964903.11	1.6450	A	2.3
8	☐			4558.55	0.0007	P	3.5

y = 3.2871E-004 * x + 5.0754E-006
R = 1.0000
DL = 0.005724
BEC = 0.01544

Weight: <None>
Min Conc: 0

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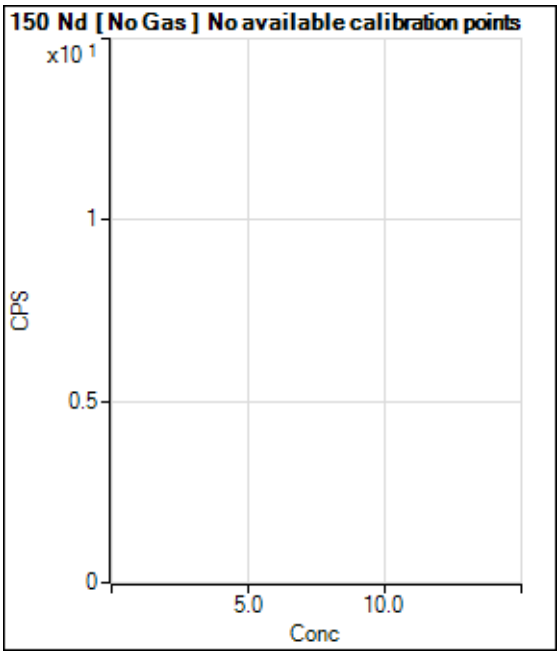
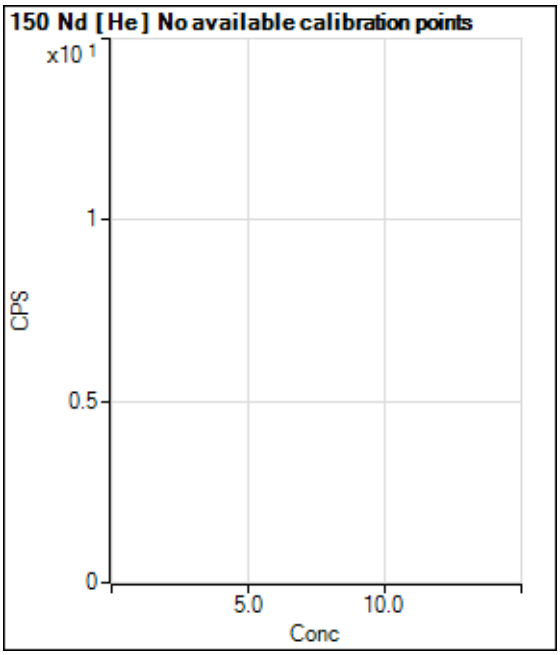


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.44		P	43.4
2	☐			13.33		P	43.3
3	☐			13.33		P	66.2
4	☐			35.56		P	53.3
5	☐			62.22		P	20.3
6	☐			127.78		P	21.1
7	☐			270.01		P	5.4
8	☐			114.45		P	32.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			7.78		P	99.0
4	☐			11.11		P	17.3
5	☐			21.11		P	32.9
6	☐			33.33		P	60.8
7	☐			61.11		P	17.5
8	☐			72.22		P	17.5

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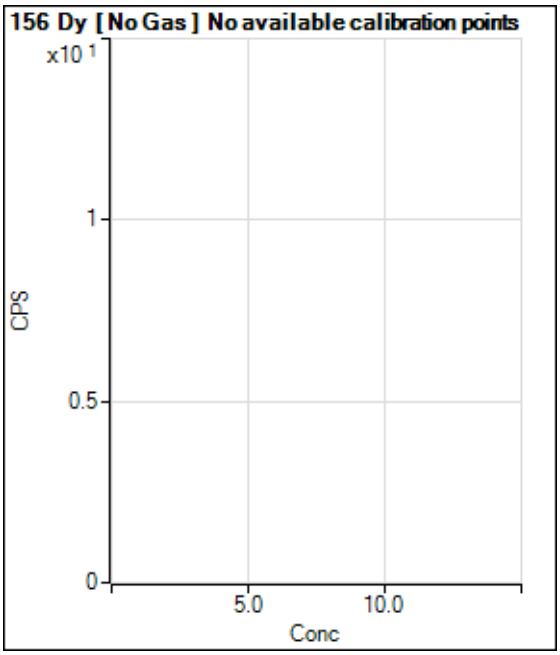
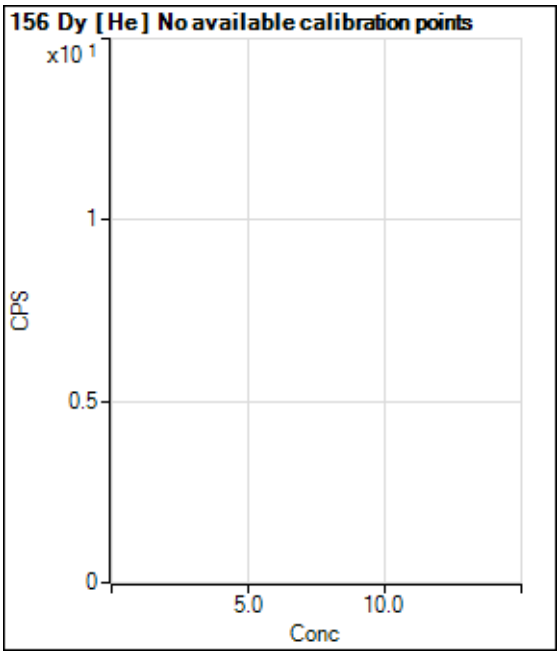


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4.44		P	43.4
2	☐			6.66		P	86.6
3	☐			14.45		P	48.0
4	☐			11.11		P	17.3
5	☐			25.56		P	60.2
6	☐			35.55		P	44.3
7	☐			62.22		P	11.1
8	☐			165.56		P	22.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			6.67		P	100.
4	☐			36.67		P	18.2
5	☐			61.11		P	30.0
6	☐			140.00		P	24.9
7	☐			265.56		P	9.7
8	☐			136.67		P	33.9

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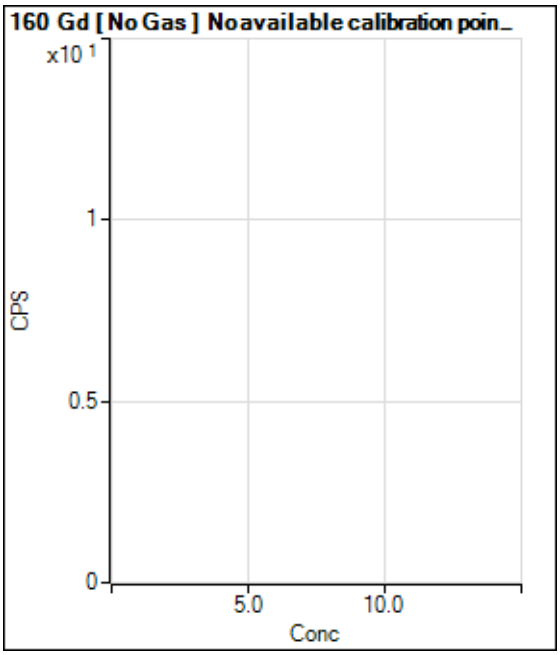
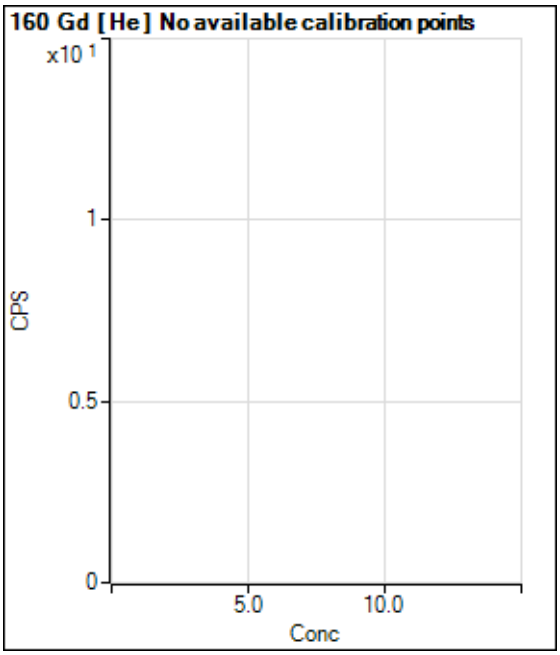


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.56		P	30.1
2	☐			32.22		P	26.0
3	☐			20.00		P	33.4
4	☐			24.44		P	41.7
5	☐			24.44		P	47.9
6	☐			44.44		P	42.7
7	☐			47.78		P	17.6
8	☐			175.56		P	7.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			234.45		P	12.1
2	☐			236.67		P	13.4
3	☐			228.89		P	10.7
4	☐			221.11		P	8.6
5	☐			217.78		P	23.0
6	☐			246.67		P	14.1
7	☐			235.56		P	13.9
8	☐			375.56		P	8.8

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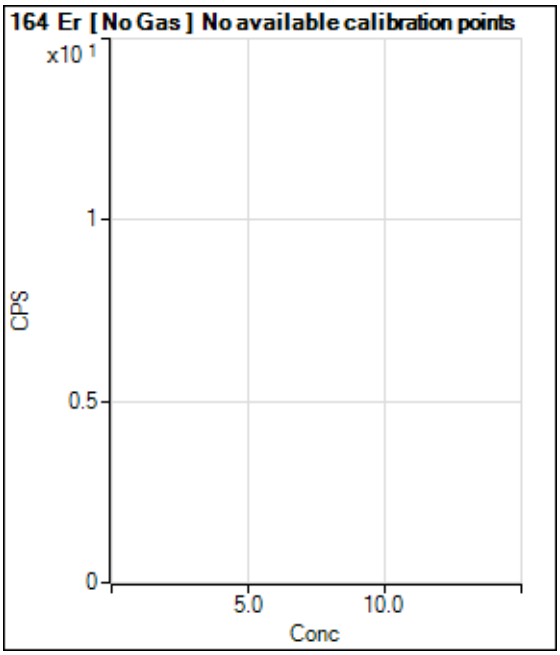
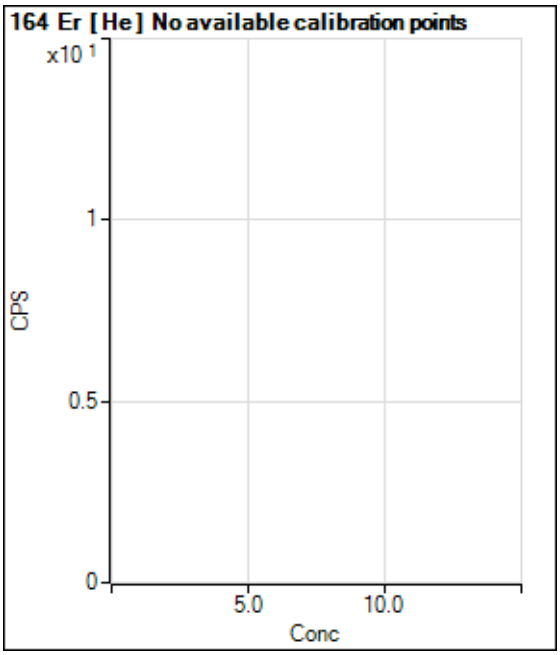


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			33.33		P	26.4
2	☐			47.78		P	34.4
3	☐			51.11		P	19.9
4	☐			54.44		P	34.8
5	☐			58.89		P	3.3
6	☐			65.55		P	16.3
7	☐			90.00		P	11.1
8	☐			251.12		P	17.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			25.56		P	19.9
2	☐			23.33		P	28.6
3	☐			43.33		P	27.7
4	☐			41.11		P	47.5
5	☐			45.55		P	29.6
6	☐			60.00		P	5.5
7	☐			58.89		P	35.9
8	☐			206.67		P	9.0

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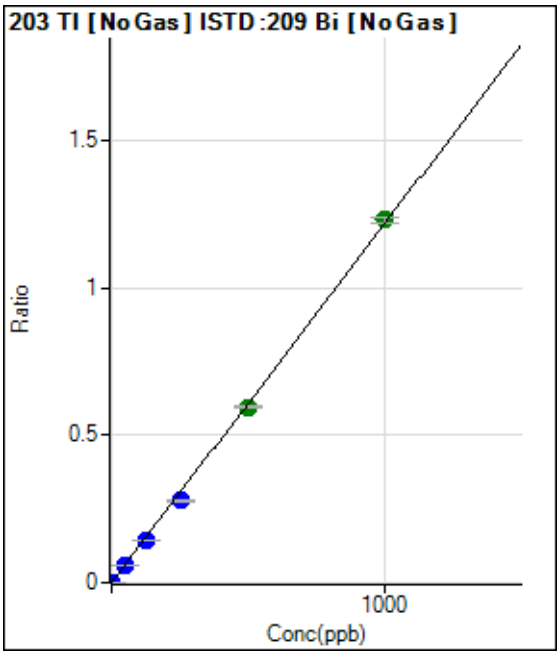
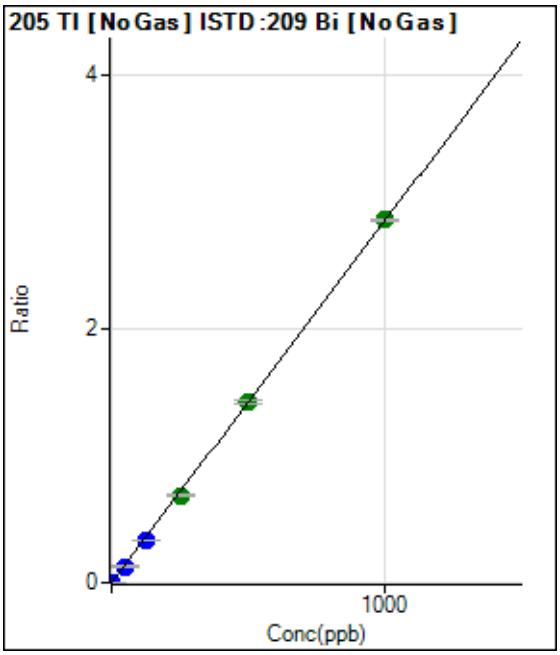


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	23.9
2	☐	1.000	0.971	4354.08	0.0012	P	4.4
3	☐	50.000	45.851	209614.93	0.0558	P	0.3
4	☐	125.000	117.209	516487.10	0.1425	P	0.7
5	☐	250.000	228.694	1019493.28	0.2780	P	1.1
6	☐	500.000	490.056	2115460.49	0.5957	A	0.8
7	☐	1000.000	1011.480	4358587.02	1.2295	A	1.7
8	☐			384.45	0.0001	P	6.6

y = 0.0012 * x + 2.0542E-005
R = 0.9997
DL = 0.01213
BEC = 0.0169

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	154.45	0.0000	P	7.3
2	☐	1.000	0.971	10187.22	0.0028	P	3.5
3	☐	50.000	45.147	483542.60	0.1286	P	0.6
4	☐	125.000	116.727	1205063.01	0.3325	P	0.7
5	☐	250.000	241.193	2518901.04	0.6869	A	1.0
6	☐	500.000	499.206	5048094.37	1.4217	A	1.9
7	☐	1000.000	1003.875	10134103.25	2.8589	A	0.8
8	☐			971.16	0.0003	P	3.0

y = 0.0028 * x + 4.3218E-005
R = 0.9999
DL = 0.003318
BEC = 0.01518

Weight: <None>
Min Conc: 0

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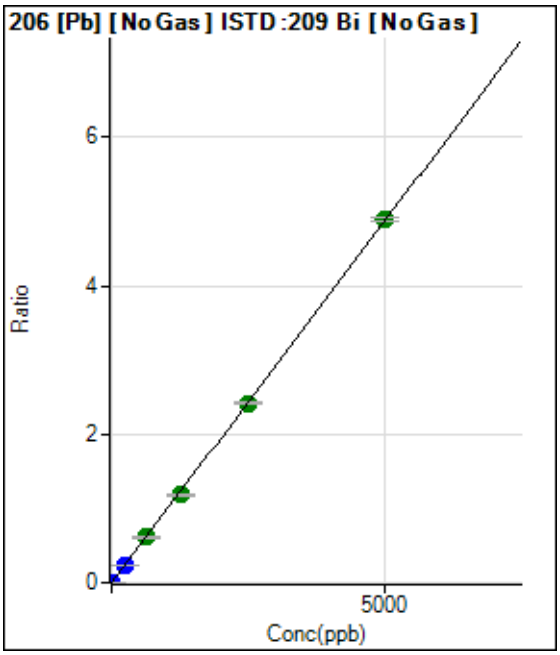

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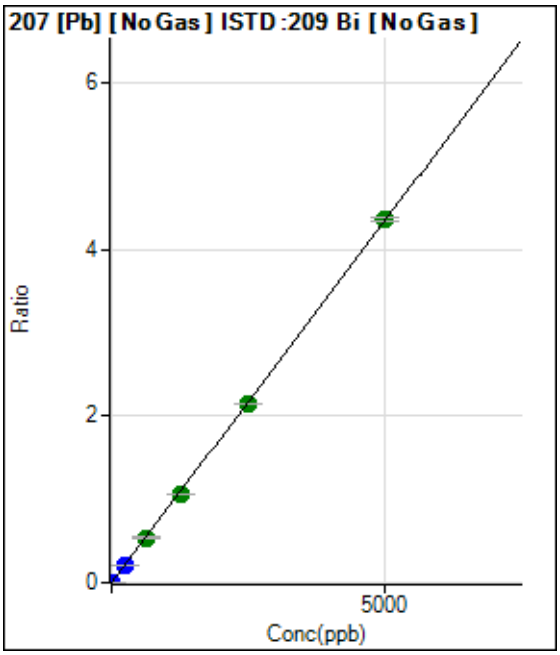
2	☐	1.000	0.968	3822.81	0.0011	P	5.0
3	☐	250.000	231.140	846501.32	0.2252	P	0.3
4	☐	625.000	625.630	2208343.27	0.6093	A	0.6
5	☐	1250.000	1212.379	4329008.41	1.1805	A	0.8
6	☐	2500.000	2480.396	8576201.75	2.4151	A	1.3
7	☐	5000.000	5020.072	17326582.66	4.8879	A	1.1
8	☐			20113.88	0.0055	P	1.4

y = 9.7365E-004 * x + 1.1226E-004
R = 1.0000
DL = 0.02704
BEC = 0.1153

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	1.000	0.987	3466.03	0.0010	P	1.3
3	☐	250.000	226.609	739373.35	0.1967	P	0.3
4	☐	625.000	620.968	1952653.10	0.5388	A	1.3
5	☐	1250.000	1221.457	3885928.17	1.0596	A	1.6
6	☐	2500.000	2481.632	7644571.00	2.1528	A	0.4
7	☐	5000.000	5017.993	15430657.13	4.3529	A	1.2
8	☐			17486.92	0.0048	P	1.6

y = 8.6745E-004 * x + 9.9524E-005
R = 1.0000
DL = 0.02482
BEC = 0.1147

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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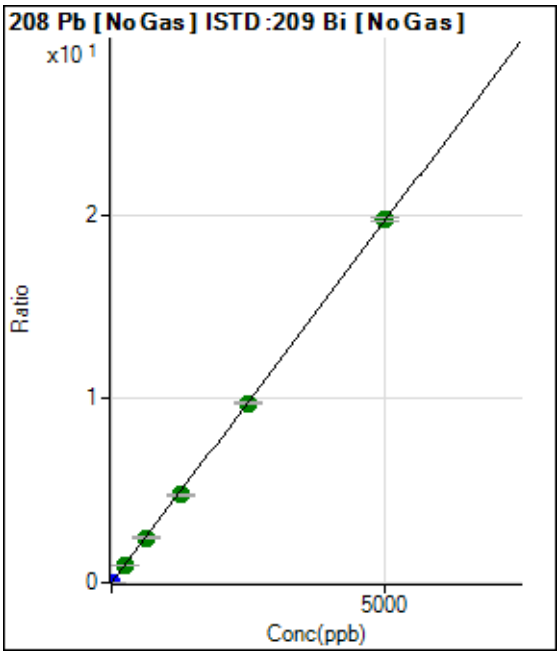

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1	☐	0.000	0.000	1623.39	0.0005	P	3.9
2	☐	1.000	0.974	15545.86	0.0043	P	2.3
3	☐	250.000	235.805	3489242.35	0.9281	A	0.2
4	☐	625.000	624.067	8900181.26	2.4556	A	1.1
5	☐	1250.000	1214.698	17525511.86	4.7792	A	1.5
6	☐	2500.000	2479.926	34647425.94	9.7567	A	0.8
7	☐	5000.000	5019.689	70004897.29	19.7484	A	1.2
8	☐			79797.33	0.0219	P	2.0

y = 0.0039 * x + 4.5446E-004
R = 1.0000
DL = 0.01349
BEC = 0.1155

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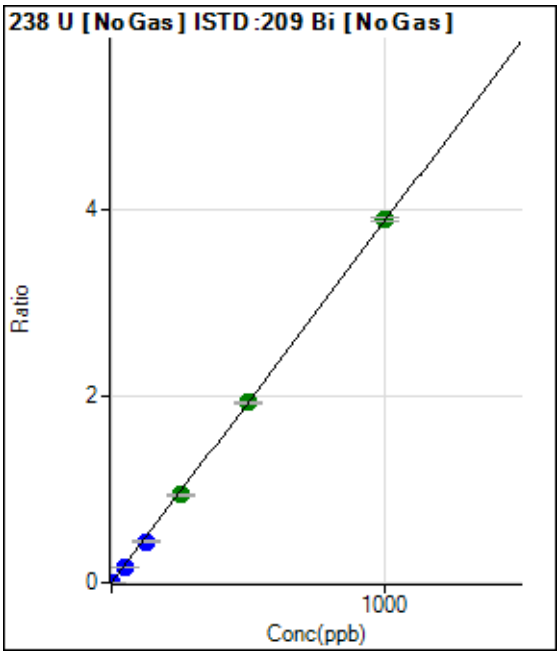

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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2	☐	1.000	0.949	13325.62	0.0037	P	2.2
3	☐	50.000	44.083	640799.33	0.1704	P	0.7
4	☐	125.000	114.318	1602054.99	0.4420	P	0.7
5	☐	250.000	242.458	3437725.19	0.9374	A	1.7
6	☐	500.000	498.293	6841062.05	1.9266	A	1.1
7	☐	1000.000	1004.370	13764818.96	3.8833	A	1.1
8	☐			475.57	0.0001	P	6.9

y = 0.0039 * x + 3.4225E-006
R = 0.9999
DL = 0.000427
BEC = 0.0008852

Weight: <None>
Min Conc: 0

Reviewed By:mohan
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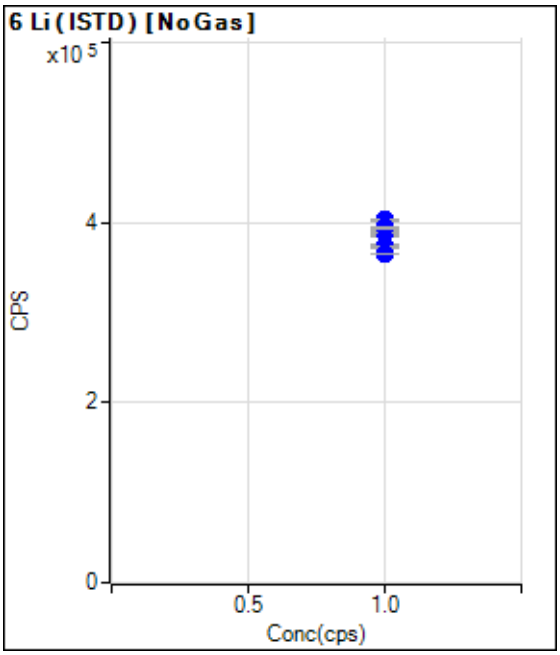

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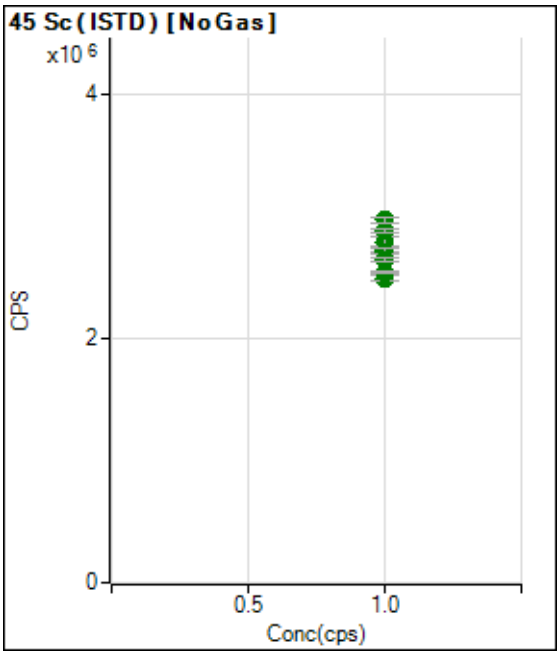
2	☐	1.000		390754.10		P	2.6
3	☐	1.000		403560.70		P	0.6
4	☐	1.000		389883.34		P	1.0
5	☐	1.000		390042.05		P	0.6
6	☐	1.000		372752.26		P	0.4
7	☐	1.000		365545.53		P	0.4
8	☐	1.000		395180.54		P	0.7



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2	☐	1.000		2786912.74		A	3.1
3	☐	1.000		2872435.51		A	1.2
4	☐	1.000		2711956.52		A	1.4
5	☐	1.000		2642540.57		A	0.9
6	☐	1.000		2491572.36		A	1.6
7	☐	1.000		2532497.93		A	0.6
8	☐	1.000		2966469.43		A	1.7

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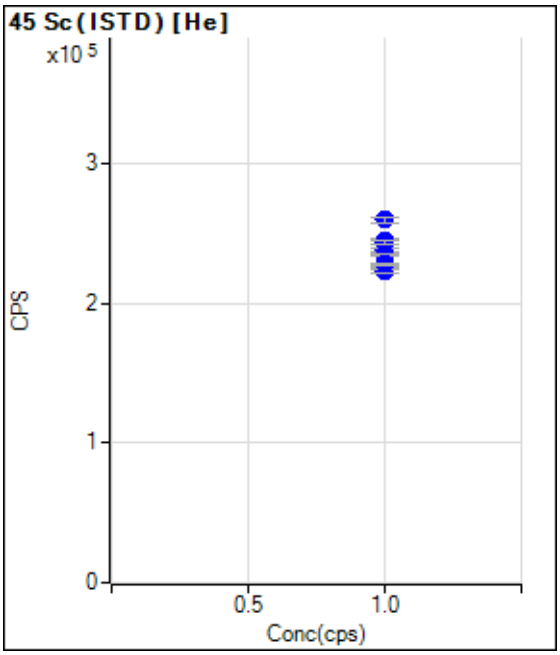

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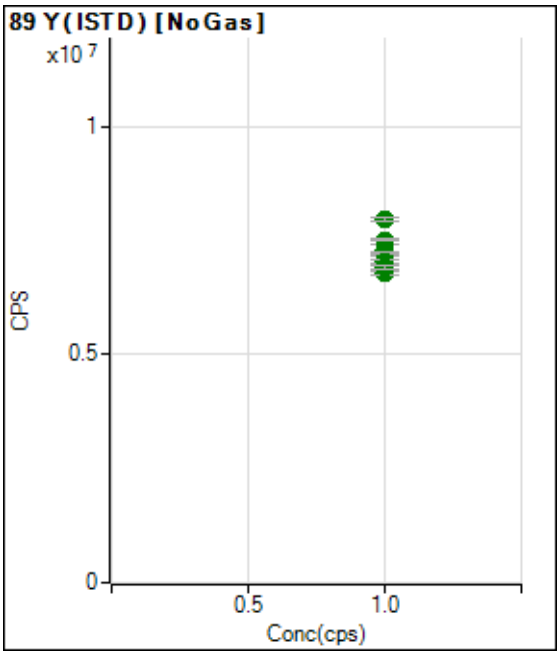
2	☐	1.000		244803.79		P	0.6
3	☐	1.000		243200.37		P	0.8
4	☐	1.000		234517.07		P	0.7
5	☐	1.000		225423.60		P	0.6
6	☐	1.000		222596.15		P	0.8
7	☐	1.000		227730.98		P	0.7
8	☐	1.000		259414.84		P	1.4



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3	☐	1.000		7524454.33		A	0.7
4	☐	1.000		7228915.38		A	0.9
5	☐	1.000		7040333.79		A	1.6
6	☐	1.000		6783186.08		A	1.0
7	☐	1.000		6927089.13		A	1.0
8	☐	1.000		7954158.63		A	1.1

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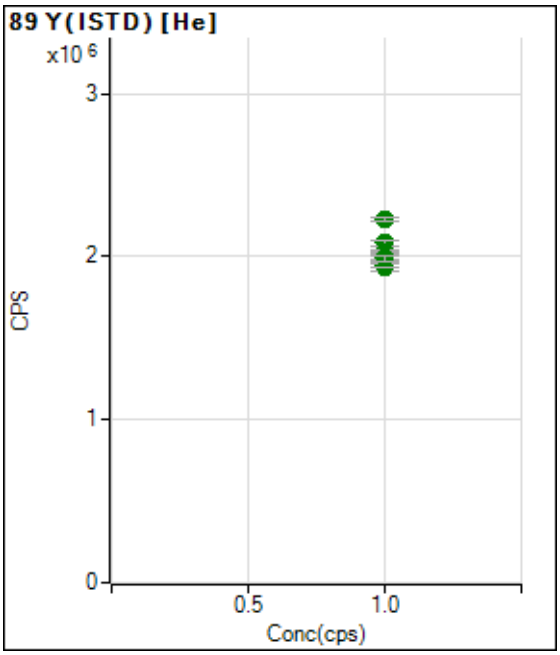

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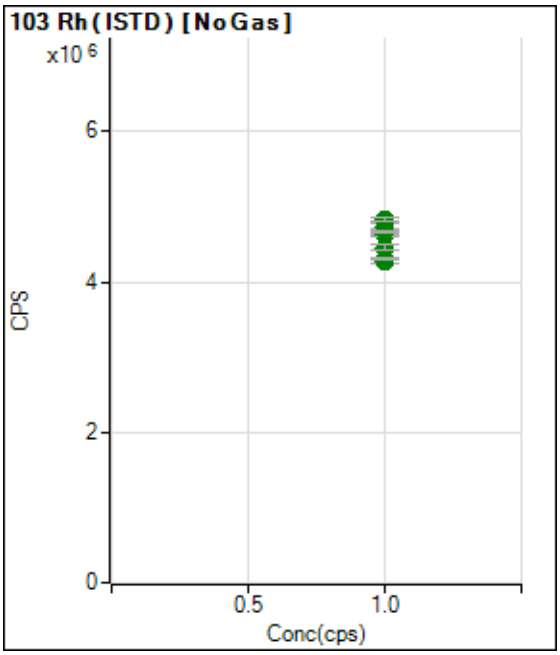
2	☐	1.000		2082776.10		A	2.0
3	☐	1.000		2084644.05		A	1.4
4	☐	1.000		2030766.79		A	0.4
5	☐	1.000		1932817.77		A	2.1
6	☐	1.000		1943782.61		A	1.4
7	☐	1.000		1990088.84		A	1.5
8	☐	1.000		2225369.71		A	1.2



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2	☐	1.000		4727541.08		A	2.5
3	☐	1.000		4824594.20		A	0.9
4	☐	1.000		4631014.38		A	1.0
5	☐	1.000		4457166.77		A	1.6
6	☐	1.000		4264505.21		A	1.2
7	☐	1.000		4299735.53		A	0.6
8	☐	1.000		4675093.26		A	0.6

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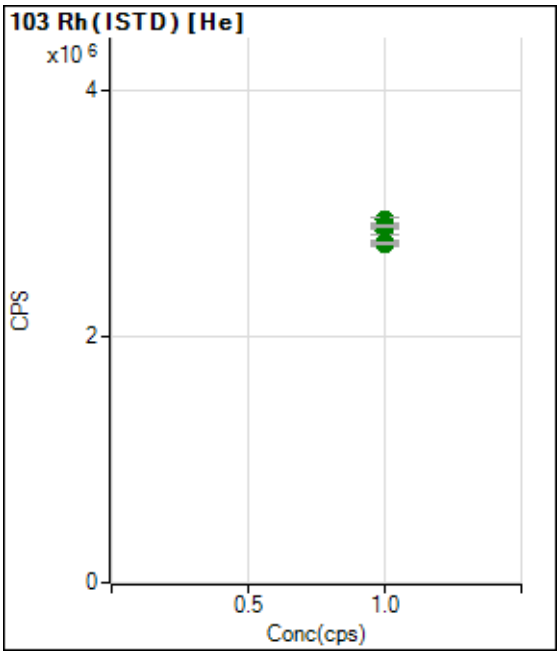

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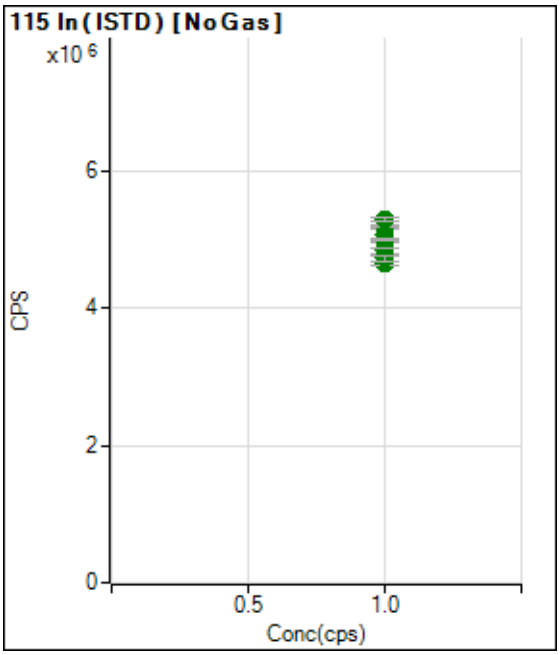
2	☐	1.000		2949513.29		A	1.6
3	☐	1.000		2907399.50		A	1.0
4	☐	1.000		2859758.95		A	1.9
5	☐	1.000		2759325.48		A	2.2
6	☐	1.000		2750167.04		A	0.4
7	☐	1.000		2764413.57		A	0.4
8	☐	1.000		2899890.20		A	0.2



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3	☐	1.000		5198358.85		A	0.1
4	☐	1.000		5008813.95		A	0.6
5	☐	1.000		4839968.82		A	1.4
6	☐	1.000		4650849.33		A	0.9
7	☐	1.000		4725415.03		A	1.9
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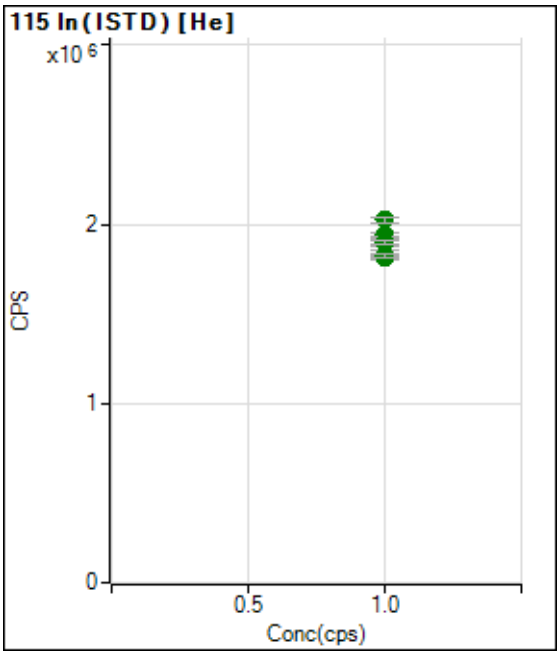

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2	☐	1.000		1940395.30		A	1.1
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4	☐	1.000		1895541.66		A	1.0
5	☐	1.000		1831474.00		A	2.5
6	☐	1.000		1817182.75		A	1.0
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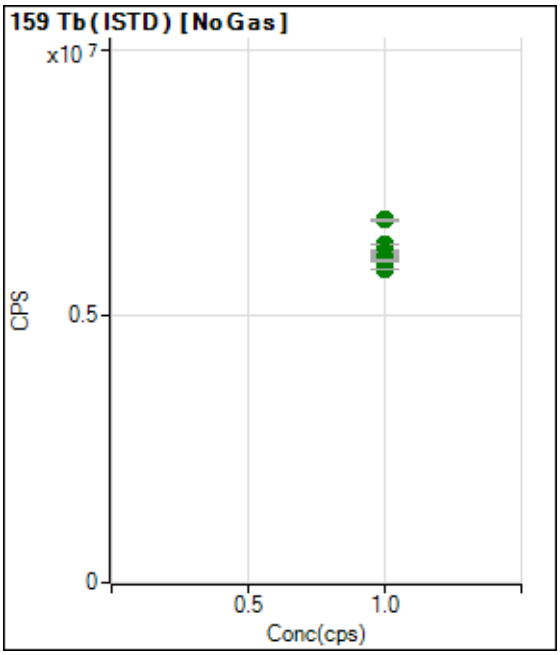

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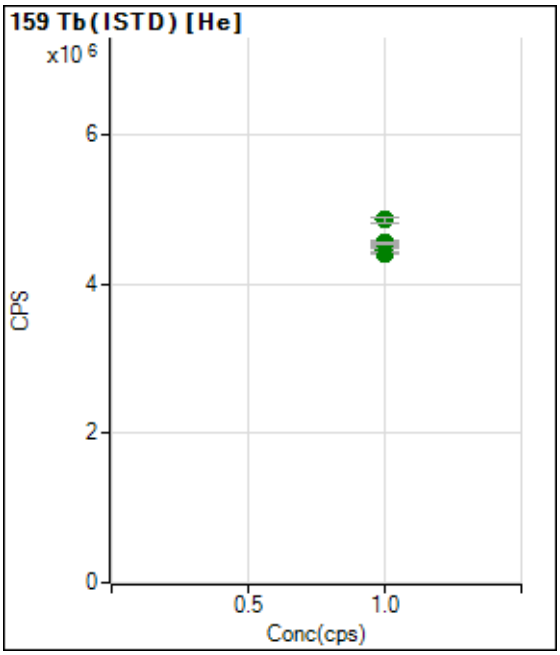

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4	☐	1.000		4513853.02		A	1.1
5	☐	1.000		4458166.74		A	1.2
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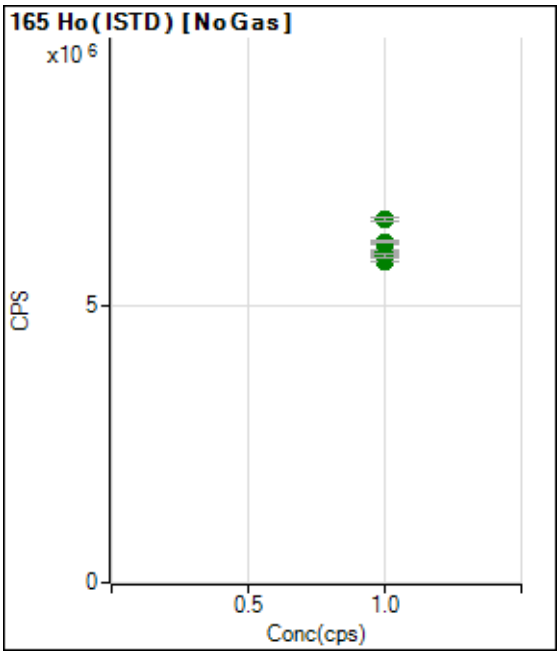

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4	☐	1.000		5977349.70		A	0.4
5	☐	1.000		5971262.27		A	0.7
6	☐	1.000		5803749.29		A	0.3
7	☐	1.000		5897081.65		A	1.2
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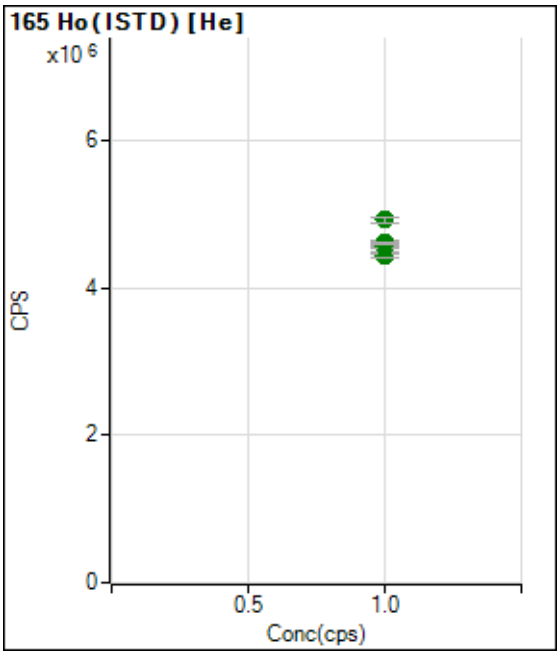

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4	☐	1.000		4615527.19		A	1.2
5	☐	1.000		4559837.78		A	0.9
6	☐	1.000		4579396.35		A	1.5
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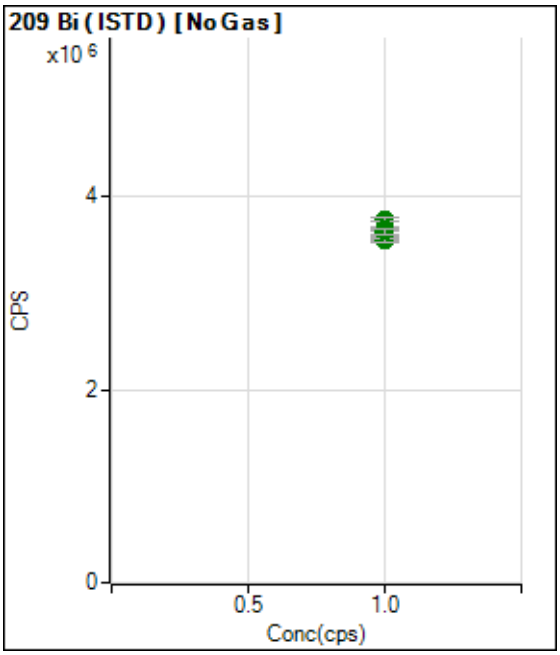

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3	☐	1.000		3759451.85		A	1.2
4	☐	1.000		3624798.25		A	1.4
5	☐	1.000		3666935.64		A	1.1
6	☐	1.000		3551102.97		A	1.1
7	☐	1.000		3544692.86		A	0.7
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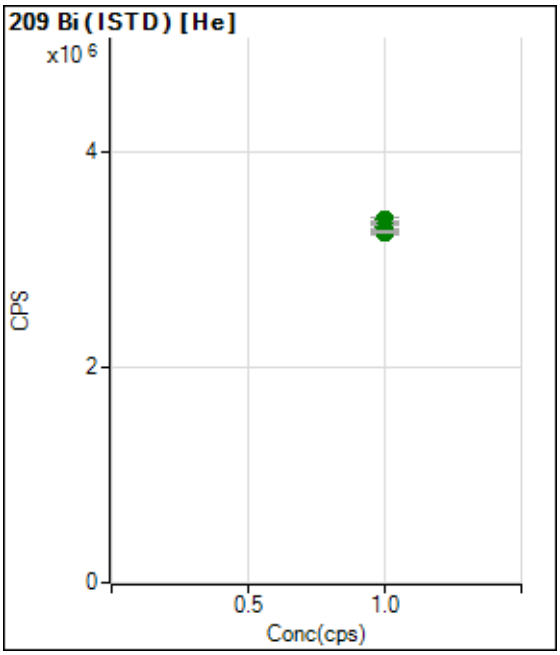

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2	☐	1.000		3323856.72		A	2.1
3	☐	1.000		3373271.34		A	1.5
4	☐	1.000		3353895.40		A	0.2
5	☐	1.000		3305007.97		A	1.1
6	☐	1.000		3305354.88		A	1.6
7	☐	1.000		3257778.63		A	1.4
8	☐	1.000		3263772.48		A	0.3

US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:08
PM
Inst Id :P7
LB :LB135403

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P7041125 MS.b
Acq. Date-Time	2025-04-11 11:10:58
Report Comment	---
Instrument Name	G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5079	50786.64			0.770	5.000
24		78164	781645.00			1.255	5.000
25		9439	94385.43			1.249	5.000
26		10556	105555.47			0.782	5.000
59		44178	441782.07			0.717	5.000
113		6320	63203.08			0.680	5.000
115		74716	747160.37			0.888	5.000
206		14604	146043.49			2.105	5.000
207		12630	126295.99			2.045	5.000
208		30291	302906.33			1.856	5.000
220		0	3.20			59.087	

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	5051	5044	5056	5120	5122
24	77438	77193	77865	79546	78781
25	9297	9381	9412	9496	9607
26	10429	10544	10549	10612	10645
59	43751	44040	44122	44450	44529
113	6300	6278	6292	6378	6353
115	74408	73941	74455	75604	75172
206	14361	14362	14493	15089	14717
207	12412	12448	12537	13044	12706
208	29791	29937	30113	31211	30400

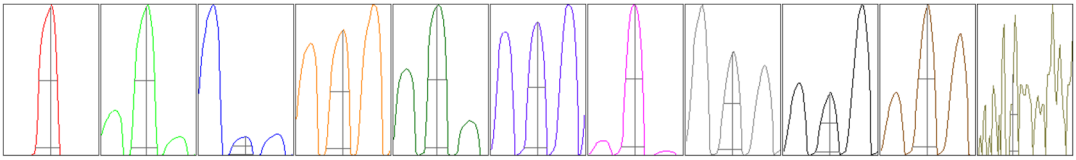
US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:08 PM
Inst Id :P7
LB :LB135403

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9316.14	9.00	8.90 - 9.10	
24	132177.73	23.95	23.90 - 24.10	
25	16221.64	25.00	24.90 - 25.10	
26	18133.94	26.00	25.90 - 26.10	
59	76130.00	58.90	58.90 - 59.10	
113	12114.33	113.00	112.90 - 113.10	
115	143668.32	115.00	114.90 - 115.10	
206	28700.82	206.00	205.90 - 206.10	
207	25035.30	207.00	206.90 - 207.10	
208	60121.46	208.00	207.90 - 208.10	
220	0.40	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.764	0.900	
24	0.64	0.824	0.900	
25	0.61	0.746	0.900	
26	0.61	0.775	0.900	
59	0.60	0.737	0.900	
113	0.54	0.729	0.900	
115	0.53	0.738	0.900	
206	0.52	0.756	0.900	
207	0.52	0.751	0.900	
208	0.51	0.766	0.900	
220	0.24	0.294		

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

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:08 PM
Inst Id :P7
LB :LB135403

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0
Sample Depth	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.4 V	Deflect	16.0 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-45 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	138	Axis Gain	0.9977	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	0.4 mm

EM

Discriminator	4.7 mV	Analog HV	2319 V	Pulse HV	1152 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14698	146977.20			0.847	
89		46853	468526.54			0.649	
205		17293	172934.08			0.632	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14783	14856	14606	14692	14552
89	46941	47287	46784	46807	46444
205	17375	17409	17177	17179	17326

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.4 V	Deflect	4.2 V

US EPA Tune Check Report

Reviewed By:moh
On:4/15/2025 1:08
PM
Inst Id :P7
LB :LB135403

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	138	Axis Gain	0.9977	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	0.4 mm		

EM

Discriminator	4.7 mV	Analog HV	2319 V	Pulse HV	1152 V

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.05	-0.02	0.07	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.01	0.00	0.00	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.00	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	-0.02	0.00	0.02	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.00	-0.04	0.00	N/A	ppb
Cadmium	106-1	0.16	-0.24	0.08	0.00	N/A	ppb
Cadmium	111-1	0.01	-0.02	0.00	0.00	N/A	ppb
Calcium	43-1	-0.74	-0.26	1.00	0.00	N/A	ppb
Calcium	44-1	-0.31	0.29	0.01	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.05	0.05	0.00	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	0.02	0.06	-0.08	0.00	N/A	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				100		%
Indium	115-1				100		%
Indium	115-2				100		%
Iron	56-2	-0.10	-0.11	0.21	0.00	N/A	ppb
Iron	57-2	1.66	-0.88	-0.78	0.00	N/A	ppb
Iron	54-2	0.42	0.55	-0.97	0.00	N/A	ppb
Krypton	83-1						cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.01	0.00	0.01	0.00	N/A	ppb
Lead	207-1	0.01	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	0.10	-0.01	-0.09	0.00	N/A	ppb
Manganese	55-2	-0.21	0.11	0.09	0.00	N/A	ppb
Molybdenum	94-1	0.01	0.00	-0.01	0.00	N/A	ppb
Molybdenum	95-1	0.01	-0.01	-0.01	0.00	N/A	ppb
Molybdenum	96-1	0.02	-0.01	-0.01	0.00	N/A	ppb
Molybdenum	97-1	0.04	-0.01	-0.03	0.00	N/A	ppb
Molybdenum	98-1	0.01	-0.01	-0.01	0.00	N/A	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.05	0.02	0.02	0.00	N/A	ppb
Phosphorus	31-2	-20.41	-9.88	-21.72	-17.34		ppb
Potassium	39-2	-1.63	2.82	-1.19	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	0.46	-0.34	-0.12	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.11	-0.34	0.46	0.00	N/A	ppb
Silicon	28-1	-7.06	8.34	-1.29	0.00	N/A	ppb
Silver	107-1	0.00	0.00	0.00	0.00	N/A	ppb
Silver	109-1	0.00	0.00	0.00	0.00	N/A	ppb
Sodium	23-2	-1.10	1.32	-0.22	0.00	N/A	ppb
Strontium	86-1	0.00	-0.02	0.02	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-173.24	113.75	-113.07	-57.52		ppb
Terbium	159-1				100		%
Terbium	159-2				100		%
Thallium	203-1	0.00	0.00	0.00	0.00	N/A	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	N/A	ppb
Tin	118-1	-0.01	-0.01	0.02	0.00	N/A	ppb
Titanium	47-1	-0.01	-0.01	0.02	0.00	N/A	ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	N/A	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	N/A	ppb
Yttrium	89-1				100		%
Yttrium	89-2				100		%
Zinc	66-2	0.03	-0.07	0.04	0.00	N/A	ppb
Zirconium	90-1	0.00	0.01	-0.01	0.00	N/A	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	N/A	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.90	19.64	19.85	19.13	5.60	ppb
Antimony	121-1	2.05	2.16	2.09	2.10	2.59	ppb
Arsenic	75-2	1.25	1.18	1.28	1.24	4.08	ppb
Barium	135-1	9.89	10.31	10.19	10.13	2.11	ppb
Barium	137-1	10.09	10.71	10.72	10.51	3.43	ppb
Beryllium	9-1	1.28	1.11	1.20	1.20	6.77	ppb
Bismuth	209-1				102		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.95	1.12	1.33	1.13	17.02	ppb
Cadmium	106-1	1.53	1.40	0.25	1.06	66.75	ppb
Cadmium	111-1	1.18	1.11	1.13	1.14	3.06	ppb
Calcium	43-1	505.98	568.15	526.60	533.58	5.94	ppb
Calcium	44-1	528.05	558.16	530.23	538.81	3.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.05	2.04	1.94	2.01	3.06	ppb
Cobalt	59-2	1.03	1.07	1.14	1.08	4.99	ppb
Copper	63-2	2.20	2.12	2.10	2.14	2.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				102		%
Indium	115-1				102		%
Indium	115-2				102		%
Iron	56-2	54.18	53.70	52.57	53.48	1.55	ppb
Iron	57-2	57.89	54.22	55.96	56.02	3.28	ppb
Iron	54-2	54.64	50.89	55.47	53.66	4.55	ppb
Krypton	83-1						cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.95	1.03	0.92	0.97	5.57	ppb
Lead	207-1	0.97	1.00	0.99	0.99	1.46	ppb
Lead	208-1	0.95	1.00	0.96	0.97	2.58	ppb
Lithium	6-1				104		%
Magnesium	24-2	509.73	505.21	509.11	508.02	0.48	ppb
Manganese	55-2	1.00	0.95	1.15	1.03	9.85	ppb
Molybdenum	94-1	5.76	6.70	6.12	6.19	7.71	ppb
Molybdenum	95-1	4.97	5.51	5.24	5.24	5.17	ppb
Molybdenum	96-1	5.11	5.50	5.17	5.26	4.04	ppb
Molybdenum	97-1	5.12	5.26	5.20	5.19	1.43	ppb
Molybdenum	98-1	4.94	5.47	5.16	5.19	5.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.00	1.34	1.08	1.14	15.75	ppb
Phosphorus	31-2	15.31	19.59	17.11	17.34	12.40	ppb
Potassium	39-2	498.65	506.91	500.41	501.99	0.87	ppb
Rhodium	103-1				101		%
Rhodium	103-2				103		%
Scandium	45-1				102		%
Scandium	45-2				103		%
Selenium	82-1	5.56	6.18	5.96	5.90	5.35	ppb
Selenium	77-2	4.58	6.97	6.45	6.00	20.95	ppb
Selenium	78-2	6.18	2.23	2.60	3.67	59.51	ppb
Silicon	28-1	-22.40	-4.77	-31.44	-19.54		ppb
Silver	107-1	1.08	1.11	1.07	1.09	1.87	ppb
Silver	109-1	1.08	1.11	1.10	1.10	1.20	ppb
Sodium	23-2	504.21	504.38	510.48	506.36	0.70	ppb
Strontium	86-1	0.98	1.11	1.07	1.05	6.40	ppb
Strontium	88-1	1.02	1.09	1.06	1.06	3.58	ppb
Sulfur	34-1	-90.23	333.09	-70.29	57.52	415.24	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	0.95	1.02	0.94	0.97	4.48	ppb
Thallium	205-1	0.96	1.01	0.94	0.97	3.51	ppb
Tin	118-1	5.10	5.28	5.19	5.19	1.71	ppb
Titanium	47-1	4.79	5.43	4.91	5.05	6.71	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.93	0.97	0.94	0.95	2.20	ppb
Vanadium	51-2	5.34	5.19	5.21	5.25	1.53	ppb
Yttrium	89-1				101		%
Yttrium	89-2				104		%
Zinc	66-2	5.24	5.33	5.24	5.27	1.00	ppb
Zirconium	90-1	1.00	1.07	1.01	1.03	3.81	ppb
Zirconium	91-1	0.96	1.19	1.09	1.08	10.34	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	962.47	956.70	954.92	958.03	0.41	ppb
Antimony	121-1	48.22	48.94	49.41	48.86	1.23	ppb
Arsenic	75-2	52.52	50.62	52.38	51.84	2.05	ppb
Barium	135-1	236.55	238.60	242.52	239.23	1.27	ppb
Barium	137-1	238.75	241.17	243.13	241.02	0.91	ppb
Beryllium	9-1	51.97	52.24	53.05	52.42	1.07	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	52.79	52.91	51.40	52.37	1.60	ppb
Cadmium	106-1	53.26	53.11	52.86	53.08	0.38	ppb
Cadmium	111-1	52.06	53.30	53.44	52.93	1.43	ppb
Calcium	43-1	4941.66	5070.86	4942.27	4984.93	1.49	ppb
Calcium	44-1	4919.73	5074.01	4949.05	4980.93	1.64	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.78	49.07	49.70	49.51	0.79	ppb
Cobalt	59-2	50.81	49.00	49.58	49.80	1.86	ppb
Copper	63-2	501.78	497.11	500.33	499.74	0.48	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				104		%
Indium	115-1				104		%
Indium	115-2				102		%
Iron	56-2	2568.59	2571.11	2592.64	2577.45	0.51	ppb
Iron	57-2	2612.09	2599.59	2586.49	2599.39	0.49	ppb
Iron	54-2	2648.97	2631.83	2616.71	2632.50	0.61	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	230.64	230.82	231.96	231.14	0.31	ppb
Lead	207-1	226.40	227.26	226.17	226.61	0.25	ppb
Lead	208-1	236.01	236.03	235.37	235.80	0.16	ppb
Lithium	6-1				108		%
Magnesium	24-2	4848.86	4807.04	4850.68	4835.53	0.51	ppb
Manganese	55-2	491.08	485.85	487.09	488.01	0.56	ppb
Molybdenum	94-1	472.44	485.62	484.33	480.80	1.51	ppb
Molybdenum	95-1	469.62	485.20	481.79	478.87	1.71	ppb
Molybdenum	96-1	473.38	485.91	484.04	481.11	1.40	ppb
Molybdenum	97-1	474.05	492.54	490.69	485.76	2.10	ppb
Molybdenum	98-1	484.85	495.71	495.93	492.16	1.29	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	51.70	51.36	51.16	51.41	0.54	ppb
Phosphorus	31-2	1034.89	1002.51	988.18	1008.53	2.37	ppb
Potassium	39-2	2485.93	2470.32	2494.53	2483.59	0.49	ppb
Rhodium	103-1				103		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				102		%
Selenium	82-1	51.14	52.92	53.89	52.65	2.64	ppb
Selenium	77-2	48.02	58.13	54.27	53.47	9.54	ppb
Selenium	78-2	48.04	49.51	49.36	48.97	1.65	ppb
Silicon	28-1	12.14	13.26	3.95	9.78	51.93	ppb
Silver	107-1	51.38	51.58	51.66	51.54	0.28	ppb
Silver	109-1	51.42	51.47	51.64	51.51	0.22	ppb
Sodium	23-2	5185.91	5166.43	5101.43	5151.26	0.86	ppb
Strontium	86-1	48.00	49.48	49.19	48.89	1.60	ppb
Strontium	88-1	47.08	48.43	48.35	47.95	1.57	ppb
Sulfur	34-1	940.31	1138.69	879.57	986.19	13.74	ppb
Terbium	159-1				104		%
Terbium	159-2				103		%
Thallium	203-1	45.71	45.90	45.94	45.85	0.27	ppb
Thallium	205-1	44.84	45.37	45.23	45.15	0.61	ppb
Tin	118-1	48.42	49.03	49.19	48.88	0.83	ppb
Titanium	47-1	471.76	485.10	469.85	475.57	1.75	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	43.74	44.25	44.25	44.08	0.67	ppb
Vanadium	51-2	49.41	49.19	48.77	49.12	0.66	ppb
Yttrium	89-1				104		%
Yttrium	89-2				104		%
Zinc	66-2	509.61	501.42	510.87	507.30	1.01	ppb
Zirconium	90-1	47.14	48.75	48.71	48.20	1.90	ppb
Zirconium	91-1	47.36	48.57	48.69	48.21	1.52	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2390.62	2433.45	2410.96	2411.68	0.89	ppb
Antimony	121-1	122.84	123.06	124.73	123.54	0.83	ppb
Arsenic	75-2	128.05	129.71	128.72	128.83	0.65	ppb
Barium	135-1	603.77	597.05	607.57	602.79	0.88	ppb
Barium	137-1	605.57	604.95	610.95	607.16	0.54	ppb
Beryllium	9-1	131.80	131.24	130.19	131.08	0.62	ppb
Bismuth	209-1				101		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	133.11	135.17	129.23	132.50	2.28	ppb
Cadmium	106-1	131.33	131.98	129.10	130.80	1.15	ppb
Cadmium	111-1	131.81	132.08	132.16	132.02	0.14	ppb
Calcium	43-1	12662.04	13011.64	12860.58	12844.75	1.37	ppb
Calcium	44-1	12666.51	12811.19	12707.43	12728.38	0.59	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	126.19	127.02	126.81	126.67	0.34	ppb
Cobalt	59-2	124.43	126.15	124.83	125.14	0.72	ppb
Copper	63-2	1301.40	1297.24	1304.31	1300.98	0.27	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				104		%
Indium	115-1				101		%
Indium	115-2				100		%
Iron	56-2	6498.58	6687.99	6666.36	6617.64	1.57	ppb
Iron	57-2	6554.53	6609.62	6650.04	6604.73	0.73	ppb
Iron	54-2	6508.85	6558.78	6659.87	6575.83	1.17	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	627.73	627.52	621.64	625.63	0.55	ppb
Lead	207-1	629.97	618.30	614.63	620.97	1.29	ppb
Lead	208-1	631.87	620.66	619.67	624.07	1.09	ppb
Lithium	6-1				104		%
Magnesium	24-2	12901.45	12858.78	13000.88	12920.37	0.56	ppb
Manganese	55-2	1263.35	1253.04	1278.41	1264.93	1.01	ppb
Molybdenum	94-1	1260.34	1260.74	1242.12	1254.40	0.85	ppb
Molybdenum	95-1	1256.28	1269.12	1258.11	1261.17	0.55	ppb
Molybdenum	96-1	1262.92	1262.26	1258.13	1261.10	0.21	ppb
Molybdenum	97-1	1248.69	1254.88	1276.97	1260.18	1.18	ppb
Molybdenum	98-1	1269.33	1283.33	1254.62	1269.09	1.13	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	127.43	130.71	128.68	128.94	1.29	ppb
Phosphorus	31-2	2563.57	2582.96	2585.65	2577.39	0.47	ppb
Potassium	39-2	6148.52	6132.44	6324.15	6201.70	1.71	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				99		%
Scandium	45-2				98		%
Selenium	82-1	133.30	131.69	131.86	132.28	0.67	ppb
Selenium	77-2	132.06	145.23	140.60	139.30	4.80	ppb
Selenium	78-2	126.07	137.67	129.72	131.15	4.52	ppb
Silicon	28-1	90.34	103.02	90.94	94.77	7.55	ppb
Silver	107-1	128.68	128.61	127.54	128.27	0.50	ppb
Silver	109-1	128.71	128.76	128.37	128.62	0.16	ppb
Sodium	23-2	13056.82	12934.92	12957.32	12983.02	0.50	ppb
Strontium	86-1	125.28	124.68	125.22	125.06	0.26	ppb
Strontium	88-1	127.00	124.93	126.02	125.98	0.82	ppb
Sulfur	34-1	2725.38	2937.26	2535.63	2732.76	7.35	ppb
Terbium	159-1				101		%
Terbium	159-2				102		%
Thallium	203-1	118.14	116.87	116.62	117.21	0.69	ppb
Thallium	205-1	117.63	115.94	116.61	116.73	0.73	ppb
Tin	118-1	124.37	122.85	124.51	123.91	0.74	ppb
Titanium	47-1	1200.68	1244.01	1214.20	1219.63	1.82	ppb

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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	115.15	114.10	113.70	114.32	0.65	ppb
Vanadium	51-2	123.24	125.06	123.33	123.88	0.83	ppb
Yttrium	89-1				100		%
Yttrium	89-2				102		%
Zinc	66-2	1272.05	1295.07	1300.04	1289.05	1.16	ppb
Zirconium	90-1	121.25	122.47	121.66	121.79	0.51	ppb
Zirconium	91-1	123.58	123.62	123.68	123.62	0.04	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4731.80	4665.44	4731.69	4709.65	0.81	ppb
Antimony	121-1	237.15	240.14	242.53	239.94	1.12	ppb
Arsenic	75-2	258.58	250.61	264.35	257.85	2.68	ppb
Barium	135-1	1158.65	1166.55	1186.89	1170.70	1.24	ppb
Barium	137-1	1244.86	1240.68	1249.69	1245.08	0.36	ppb
Beryllium	9-1	251.55	251.16	255.62	252.78	0.98	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	257.56	257.33	253.64	256.18	0.86	ppb
Cadmium	106-1	246.84	250.33	258.48	251.88	2.37	ppb
Cadmium	111-1	250.38	252.41	259.50	254.10	1.88	ppb
Calcium	43-1	24266.69	25389.89	24711.09	24789.22	2.28	ppb
Calcium	44-1	23791.17	25112.12	24817.73	24573.67	2.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	247.44	246.49	244.86	246.26	0.53	ppb
Cobalt	59-2	243.90	244.85	247.94	245.56	0.86	ppb
Copper	63-2	2536.35	2558.98	2526.28	2540.54	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				103		%
Indium	115-1				97		%
Indium	115-2				97		%
Iron	56-2	12803.13	12943.03	13078.32	12941.49	1.06	ppb
Iron	57-2	12929.52	13029.48	13008.95	12989.31	0.41	ppb
Iron	54-2	12965.63	12957.47	13200.85	13041.32	1.06	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	1206.04	1207.84	1223.26	1212.38	0.78	ppb
Lead	207-1	1201.86	1221.98	1240.53	1221.46	1.58	ppb
Lead	208-1	1201.33	1207.80	1234.97	1214.70	1.47	ppb
Lithium	6-1				104		%
Magnesium	24-2	25470.52	24671.26	25448.22	25196.67	1.81	ppb
Manganese	55-2	2474.39	2469.94	2547.81	2497.38	1.75	ppb
Molybdenum	94-1	2374.64	2472.05	2507.01	2451.23	2.80	ppb
Molybdenum	95-1	2385.37	2504.32	2516.69	2468.79	2.94	ppb
Molybdenum	96-1	2414.22	2507.68	2522.08	2481.32	2.36	ppb
Molybdenum	97-1	2392.00	2498.45	2526.17	2472.21	2.87	ppb
Molybdenum	98-1	2416.57	2506.93	2505.14	2476.21	2.09	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	252.34	255.65	253.16	253.72	0.68	ppb
Phosphorus	31-2	5162.22	4959.66	4958.78	5026.89	2.33	ppb
Potassium	39-2	12222.46	11939.62	12041.01	12067.70	1.19	ppb
Rhodium	103-1				96		%
Rhodium	103-2				97		%
Scandium	45-1				97		%
Scandium	45-2				95		%
Selenium	82-1	249.95	261.14	267.14	259.41	3.36	ppb
Selenium	77-2	256.88	252.06	277.62	262.19	5.18	ppb
Selenium	78-2	270.53	253.78	261.29	261.87	3.20	ppb
Silicon	28-1	188.08	206.37	209.85	201.43	5.81	ppb
Silver	107-1	245.13	244.25	249.47	246.28	1.13	ppb
Silver	109-1	245.53	245.35	248.77	246.55	0.78	ppb
Sodium	23-2	25637.57	25334.14	25578.10	25516.61	0.63	ppb
Strontium	86-1	237.32	247.31	249.18	244.61	2.61	ppb
Strontium	88-1	241.48	251.54	253.22	248.75	2.55	ppb
Sulfur	34-1	4864.13	5039.50	4958.80	4954.14	1.77	ppb
Terbium	159-1				100		%
Terbium	159-2				101		%
Thallium	203-1	226.42	228.39	231.28	228.69	1.07	ppb
Thallium	205-1	240.35	239.29	243.94	241.19	1.01	ppb
Tin	118-1	234.84	238.42	244.24	239.17	1.98	ppb
Titanium	47-1	2374.01	2444.98	2434.32	2417.77	1.58	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	238.45	242.13	246.80	242.46	1.73	ppb
Vanadium	51-2	244.44	242.40	244.81	243.88	0.53	ppb
Yttrium	89-1				97		%
Yttrium	89-2				97		%
Zinc	66-2	2531.31	2529.37	2541.65	2534.11	0.26	ppb
Zirconium	90-1	239.32	248.66	253.30	247.09	2.88	ppb
Zirconium	91-1	234.75	248.31	246.79	243.28	3.05	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9273.91	9205.70	9256.23	9245.28	0.38	ppb
Antimony	121-1	495.75	500.23	509.35	501.78	1.38	ppb
Arsenic	75-2	494.17	504.18	512.08	503.48	1.78	ppb
Barium	135-1	2485.71	2538.31	2537.99	2520.67	1.20	ppb
Barium	137-1	2495.05	2484.57	2517.57	2499.07	0.67	ppb
Beryllium	9-1	503.13	504.81	505.06	504.34	0.21	ppb
Bismuth	209-1				99		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	496.98	512.91	513.74	507.88	1.86	ppb
Cadmium	106-1	509.32	509.50	511.50	510.10	0.24	ppb
Cadmium	111-1	503.60	508.56	510.58	507.58	0.71	ppb
Calcium	43-1	50677.53	50541.54	50319.87	50512.98	0.36	ppb
Calcium	44-1	50842.25	50760.98	49792.12	50465.11	1.16	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	489.59	492.97	499.64	494.06	1.04	ppb
Cobalt	59-2	496.06	493.93	504.62	498.20	1.14	ppb
Copper	63-2	5009.59	5036.13	5104.14	5049.95	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				98		%
Holmium	165-2				103		%
Indium	115-1				93		%
Indium	115-2				96		%
Iron	56-2	25625.90	25892.35	26414.64	25977.63	1.54	ppb
Iron	57-2	25627.82	26162.30	26533.60	26107.91	1.74	ppb
Iron	54-2	25536.00	25733.87	25961.37	25743.74	0.83	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2457.95	2518.35	2464.88	2480.40	1.33	ppb
Lead	207-1	2485.75	2487.92	2471.22	2481.63	0.37	ppb
Lead	208-1	2461.05	2499.43	2479.30	2479.93	0.77	ppb
Lithium	6-1				100		%
Magnesium	24-2	50516.64	48483.92	50377.81	49792.79	2.28	ppb
Manganese	55-2	4922.26	4995.57	5101.87	5006.57	1.80	ppb
Molybdenum	94-1	4900.36	5029.17	4975.72	4968.41	1.30	ppb
Molybdenum	95-1	4890.57	5070.27	5003.83	4988.22	1.82	ppb
Molybdenum	96-1	4957.59	5058.30	4889.25	4968.38	1.71	ppb
Molybdenum	97-1	4950.71	5087.52	5059.90	5032.71	1.44	ppb
Molybdenum	98-1	4970.13	5114.73	5027.80	5037.55	1.44	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	496.86	499.43	513.79	503.36	1.81	ppb
Phosphorus	31-2	10044.02	9963.04	10219.81	10075.62	1.30	ppb
Potassium	39-2	24216.03	24260.48	24235.56	24237.36	0.09	ppb
Rhodium	103-1				91		%
Rhodium	103-2				96		%
Scandium	45-1				91		%
Scandium	45-2				93		%
Selenium	82-1	516.48	518.69	508.35	514.51	1.06	ppb
Selenium	77-2	492.21	520.21	527.39	513.27	3.62	ppb
Selenium	78-2	500.76	527.64	507.75	512.05	2.72	ppb
Silicon	28-1	452.34	477.39	496.79	475.51	4.69	ppb
Silver	107-1	496.35	504.39	511.34	504.02	1.49	ppb
Silver	109-1	507.91	501.65	520.84	510.13	1.92	ppb
Sodium	23-2	49642.51	49893.52	50894.59	50143.54	1.32	ppb
Strontium	86-1	477.82	491.60	490.63	486.68	1.58	ppb
Strontium	88-1	493.83	502.15	499.86	498.61	0.86	ppb
Sulfur	34-1	10194.95	9952.67	9638.91	9928.84	2.81	ppb
Terbium	159-1				96		%
Terbium	159-2				102		%
Thallium	203-1	486.32	493.99	489.86	490.06	0.78	ppb
Thallium	205-1	499.90	508.51	489.20	499.21	1.94	ppb
Tin	118-1	495.65	505.73	509.11	503.50	1.39	ppb
Titanium	47-1	5044.69	5010.66	4966.93	5007.43	0.78	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	499.00	503.24	492.64	498.29	1.07	ppb
Vanadium	51-2	481.05	488.17	495.25	488.16	1.46	ppb
Yttrium	89-1				94		%
Yttrium	89-2				97		%
Zinc	66-2	5101.06	5161.32	5141.78	5134.72	0.60	ppb
Zirconium	90-1	496.33	501.80	510.50	502.88	1.42	ppb
Zirconium	91-1	485.25	499.35	487.37	490.65	1.55	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19286.80	19266.04	19722.39	19425.08	1.33	ppb
Antimony	121-1	978.90	998.36	1028.33	1001.87	2.49	ppb
Arsenic	75-2	988.46	1009.75	988.97	995.73	1.22	ppb
Barium	135-1	4886.17	4966.55	5185.70	5012.80	3.09	ppb
Barium	137-1	4896.10	4987.64	5129.39	5004.38	2.35	ppb
Beryllium	9-1	993.40	996.66	998.72	996.26	0.27	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	977.02	987.14	1016.22	993.46	2.05	ppb
Cadmium	106-1	981.00	987.92	1011.88	993.60	1.63	ppb
Cadmium	111-1	974.81	994.72	1012.96	994.16	1.92	ppb
Calcium	43-1	99851.67	100214.15	101391.09	100485.64	0.80	ppb
Calcium	44-1	99028.06	100405.25	100179.21	99870.84	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	995.58	1026.70	988.87	1003.72	2.01	ppb
Cobalt	59-2	1011.20	994.00	1000.80	1002.00	0.86	ppb
Copper	63-2	10000.48	9978.72	9896.38	9958.53	0.55	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				104		%
Indium	115-1				95		%
Indium	115-2				96		%
Iron	56-2	51740.82	51007.37	51157.84	51302.01	0.76	ppb
Iron	57-2	50521.13	50845.49	50526.70	50631.11	0.37	ppb
Iron	54-2	51835.41	51711.21	51777.59	51774.74	0.12	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4955.90	5041.07	5063.25	5020.07	1.13	ppb
Lead	207-1	4964.99	5003.16	5085.83	5017.99	1.23	ppb
Lead	208-1	4952.32	5032.24	5074.50	5019.69	1.24	ppb
Lithium	6-1				98		%
Magnesium	24-2	99972.60	98137.73	97695.27	98601.86	1.22	ppb
Manganese	55-2	10078.92	9999.63	9909.76	9996.10	0.85	ppb
Molybdenum	94-1	9843.71	10095.83	10145.65	10028.39	1.61	ppb
Molybdenum	95-1	9877.95	10152.60	10009.50	10013.35	1.37	ppb
Molybdenum	96-1	9828.70	10126.24	10105.16	10020.04	1.66	ppb
Molybdenum	97-1	9759.08	10126.69	10084.32	9990.03	2.01	ppb
Molybdenum	98-1	9761.67	10117.81	10076.05	9985.18	1.95	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1004.15	999.31	987.02	996.83	0.89	ppb
Phosphorus	31-2	20131.97	20161.90	19542.22	19945.37	1.75	ppb
Potassium	39-2	49548.16	48774.19	48232.88	48851.74	1.35	ppb
Rhodium	103-1				92		%
Rhodium	103-2				97		%
Scandium	45-1				93		%
Scandium	45-2				96		%
Selenium	82-1	970.51	1004.12	993.41	989.35	1.74	ppb
Selenium	77-2	995.14	983.42	986.49	988.35	0.61	ppb
Selenium	78-2	982.99	1013.16	974.74	990.30	2.04	ppb
Silicon	28-1	982.74	1023.04	1085.64	1030.47	5.03	ppb
Silver	107-1	978.87	999.18	1017.24	998.43	1.92	ppb
Silver	109-1	984.44	993.15	1008.21	995.27	1.21	ppb
Sodium	23-2	100302.56	99057.92	98307.63	99222.70	1.02	ppb
Strontium	86-1	964.75	1044.66	1014.75	1008.05	4.01	ppb
Strontium	88-1	988.33	1010.55	1004.08	1000.99	1.14	ppb
Sulfur	34-1	19849.18	20144.49	20062.24	20018.64	0.76	ppb
Terbium	159-1				99		%
Terbium	159-2				103		%
Thallium	203-1	993.53	1013.83	1027.08	1011.48	1.67	ppb
Thallium	205-1	995.56	1010.82	1005.25	1003.88	0.77	ppb
Tin	118-1	976.71	1017.91	1008.83	1001.15	2.16	ppb
Titanium	47-1	10049.52	9930.34	10085.72	10021.86	0.81	ppb

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	994.34	1016.02	1002.75	1004.37	1.09	ppb
Vanadium	51-2	997.31	1005.31	1020.28	1007.63	1.16	ppb
Yttrium	89-1				96		%
Yttrium	89-2				100		%
Zinc	66-2	10041.33	9882.70	9832.56	9918.86	1.10	ppb
Zirconium	90-1	987.02	1013.66	998.66	999.78	1.34	ppb
Zirconium	91-1	981.63	1027.20	1011.01	1006.61	2.29	ppb

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99594.10	101001.58	100027.12	100207.60	0.72	ppb
Antimony	121-1	0.51	0.57	0.57	0.55	6.69	ppb
Arsenic	75-2	0.44	0.64	0.44	0.51	22.45	ppb
Barium	135-1	1.94	2.00	2.02	1.99	2.22	ppb
Barium	137-1	1.98	2.10	1.98	2.02	3.53	ppb
Beryllium	9-1	0.12	0.04	0.13	0.10	47.84	ppb
Bismuth	209-1				102		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.33	0.40	0.57	0.44	28.46	ppb
Cadmium	106-1	0.11	0.19	-0.18	0.04	501.99	ppb
Cadmium	111-1	0.13	0.11	0.12	0.12	8.08	ppb
Calcium	43-1	507317.73	494762.90	497480.21	499853.61	1.32	ppb
Calcium	44-1	502277.68	495257.62	502449.94	499995.08	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	8.53	8.64	8.32	8.50	1.91	ppb
Cobalt	59-2	2.63	2.60	2.56	2.60	1.21	ppb
Copper	63-2	2.40	2.46	2.54	2.46	2.75	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				110		%
Holmium	165-2				111		%
Indium	115-1				106		%
Indium	115-2				107		%
Iron	56-2	246720.47	253710.49	248398.42	249609.79	1.46	ppb
Iron	57-2	248444.23	251529.97	249211.77	249728.66	0.64	ppb
Iron	54-2	249035.85	252017.30	247549.27	249534.14	0.91	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	5.49	5.65	5.57	5.57	1.44	ppb
Lead	207-1	5.35	5.41	5.53	5.43	1.67	ppb
Lead	208-1	5.33	5.54	5.52	5.46	2.03	ppb
Lithium	6-1				105		%
Magnesium	24-2	502887.96	501147.33	496809.63	500281.64	0.63	ppb
Manganese	55-2	-0.08	0.25	-0.01	0.05	321.11	ppb
Molybdenum	94-1	2.34	2.13	2.24	2.24	4.58	ppb
Molybdenum	95-1	1.25	1.15	1.29	1.23	5.82	ppb
Molybdenum	96-1	5.92	5.84	5.86	5.87	0.72	ppb
Molybdenum	97-1	1.33	1.46	1.46	1.42	5.22	ppb
Molybdenum	98-1	1.20	1.19	1.20	1.20	0.51	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.98	5.18	5.23	5.13	2.53	ppb
Phosphorus	31-2	-16.41	-6.51	-16.25	-13.06		ppb
Potassium	39-2	248596.79	251495.61	250894.30	250328.90	0.61	ppb
Rhodium	103-1				100		%
Rhodium	103-2				102		%
Scandium	45-1				109		%
Scandium	45-2				109		%
Selenium	82-1	1.58	1.89	1.60	1.69	10.34	ppb
Selenium	77-2	0.59	0.00	0.00	0.20	173.21	ppb
Selenium	78-2	-1.92	-1.83	-2.40	-2.05		ppb
Silicon	28-1	-76.57	-73.76	-60.22	-70.18		ppb
Silver	107-1	0.06	0.06	0.06	0.06	3.15	ppb
Silver	109-1	0.05	0.05	0.07	0.06	16.95	ppb
Sodium	23-2	495472.66	507345.32	497487.06	500101.68	1.27	ppb
Strontium	86-1	3.35	3.28	3.24	3.29	1.67	ppb
Strontium	88-1	3.28	3.25	3.30	3.27	0.79	ppb
Sulfur	34-1	-1876.19	-1697.12	-1307.74	-1627.02		ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	0.07	0.06	0.07	0.07	8.19	ppb
Thallium	205-1	0.08	0.08	0.08	0.08	3.60	ppb
Tin	118-1	0.13	0.16	0.12	0.14	13.33	ppb
Titanium	47-1	0.58	0.54	0.34	0.49	26.47	ppb

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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.03	0.03	7.04	ppb
Vanadium	51-2	0.25	0.29	0.25	0.26	8.29	ppb
Yttrium	89-1				110		%
Yttrium	89-2				111		%
Zinc	66-2	54.05	56.38	55.82	55.42	2.20	ppb
Zirconium	90-1	0.47	0.43	0.44	0.45	4.15	ppb
Zirconium	91-1	0.41	0.47	0.45	0.44	6.73	ppb

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	451.51	453.58	447.39	450.83	0.70	ppb
Antimony	121-1	194.10	193.59	190.56	192.75	0.99	ppb
Arsenic	75-2	199.14	201.96	202.30	201.13	0.86	ppb
Barium	135-1	98.75	98.99	97.20	98.31	0.99	ppb
Barium	137-1	97.67	99.28	98.54	98.50	0.82	ppb
Beryllium	9-1	106.58	107.51	107.99	107.36	0.66	ppb
Bismuth	209-1				103		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	102.02	97.64	96.27	98.65	3.05	ppb
Cadmium	106-1	94.87	94.62	92.36	93.95	1.47	ppb
Cadmium	111-1	107.83	107.16	105.16	106.72	1.30	ppb
Calcium	43-1	1919.88	1891.68	1965.43	1925.66	1.93	ppb
Calcium	44-1	1965.38	1915.73	1956.75	1945.95	1.36	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	99.43	98.60	98.61	98.88	0.48	ppb
Cobalt	59-2	98.62	99.26	99.52	99.13	0.47	ppb
Copper	63-2	100.96	101.00	100.48	100.81	0.28	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				103		%
Holmium	165-2				105		%
Indium	115-1				104		%
Indium	115-2				104		%
Iron	56-2	1979.79	2029.14	2007.73	2005.55	1.23	ppb
Iron	57-2	1994.33	2015.18	1986.18	1998.56	0.75	ppb
Iron	54-2	2071.49	2062.31	2062.97	2065.59	0.25	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	197.45	199.47	199.55	198.82	0.60	ppb
Lead	207-1	188.81	190.82	191.34	190.32	0.70	ppb
Lead	208-1	190.21	194.46	193.91	192.86	1.20	ppb
Lithium	6-1				99		%
Magnesium	24-2	1169.72	1182.25	1170.03	1174.00	0.61	ppb
Manganese	55-2	96.26	95.88	96.16	96.10	0.20	ppb
Molybdenum	94-1	0.09	0.09	0.10	0.09	1.70	ppb
Molybdenum	95-1	0.05	0.04	0.04	0.04	16.91	ppb
Molybdenum	96-1	0.08	0.06	0.07	0.07	12.47	ppb
Molybdenum	97-1	0.02	0.03	0.01	0.02	39.10	ppb
Molybdenum	98-1	0.04	0.03	0.04	0.04	12.53	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	101.87	103.37	102.56	102.60	0.73	ppb
Phosphorus	31-2	-23.30	-17.71	-13.12	-18.05		ppb
Potassium	39-2	1884.62	1898.36	1874.54	1885.84	0.63	ppb
Rhodium	103-1				102		%
Rhodium	103-2				104		%
Scandium	45-1				103		%
Scandium	45-2				102		%
Selenium	82-1	219.42	216.69	222.57	219.56	1.34	ppb
Selenium	77-2	221.26	207.40	234.63	221.09	6.16	ppb
Selenium	78-2	218.99	223.34	214.85	219.06	1.94	ppb
Silicon	28-1	-34.66	-54.46	-40.93	-43.35		ppb
Silver	107-1	50.84	50.08	49.34	50.09	1.50	ppb
Silver	109-1	49.81	50.49	49.81	50.04	0.78	ppb
Sodium	23-2	1834.87	1850.43	1826.77	1837.36	0.65	ppb
Strontium	86-1	0.26	0.32	0.23	0.27	18.02	ppb
Strontium	88-1	0.23	0.24	0.24	0.23	3.46	ppb
Sulfur	34-1	-1139.77	-1307.66	-1209.54	-1218.99		ppb
Terbium	159-1				102		%
Terbium	159-2				105		%
Thallium	203-1	183.29	188.32	187.39	186.33	1.43	ppb
Thallium	205-1	194.74	198.18	202.20	198.37	1.88	ppb
Tin	118-1	0.01	0.03	0.03	0.02	37.37	ppb
Titanium	47-1	0.00	-0.02	-0.02	-0.01		ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	28.17	ppb
Vanadium	51-2	96.31	98.02	94.81	96.38	1.66	ppb
Yttrium	89-1				103		%
Yttrium	89-2				106		%
Zinc	66-2	201.29	199.22	201.05	200.52	0.56	ppb
Zirconium	90-1	0.03	0.04	0.05	0.04	16.79	ppb
Zirconium	91-1	0.06	0.11	0.07	0.08	33.11	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	17.54	19.05	18.01	18.20	4.23	ppb
Antimony	121-1	1.83	2.05	2.04	1.97	6.18	ppb
Arsenic	75-2	1.13	0.88	1.22	1.07	16.46	ppb
Barium	135-1	9.01	10.28	10.41	9.90	7.83	ppb
Barium	137-1	9.12	10.17	10.32	9.87	6.66	ppb
Beryllium	9-1	1.10	1.09	1.05	1.08	2.45	ppb
Bismuth	209-1				110		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.44	0.95	1.12	1.17	21.36	ppb
Cadmium	106-1	1.21	-0.56	-0.33	0.11	906.47	ppb
Cadmium	111-1	1.00	1.16	1.06	1.07	7.57	ppb
Calcium	43-1	477.08	517.10	555.21	516.46	7.56	ppb
Calcium	44-1	477.02	521.16	548.57	515.58	7.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.91	1.78	1.77	1.82	4.41	ppb
Cobalt	59-2	1.12	1.10	1.17	1.13	3.11	ppb
Copper	63-2	2.18	2.22	2.18	2.19	1.00	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				108		%
Indium	115-1				110		%
Indium	115-2				108		%
Iron	56-2	54.00	52.63	53.58	53.41	1.31	ppb
Iron	57-2	53.99	50.82	56.66	53.82	5.43	ppb
Iron	54-2	55.36	55.00	52.65	54.34	2.71	ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.95	0.90	0.99	0.94	4.69	ppb
Lead	207-1	0.90	0.95	0.98	0.94	4.04	ppb
Lead	208-1	0.92	0.93	0.97	0.94	2.59	ppb
Lithium	6-1				110		%
Magnesium	24-2	510.91	505.43	507.61	507.98	0.54	ppb
Manganese	55-2	1.12	1.33	0.85	1.10	21.80	ppb
Molybdenum	94-1	5.69	6.22	5.77	5.89	4.89	ppb
Molybdenum	95-1	4.50	5.32	5.04	4.95	8.42	ppb
Molybdenum	96-1	4.77	5.35	5.22	5.11	5.96	ppb
Molybdenum	97-1	4.63	5.22	5.28	5.04	7.10	ppb
Molybdenum	98-1	4.68	5.10	5.07	4.95	4.69	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.96	1.01	0.97	3.07	ppb
Phosphorus	31-2	14.19	11.93	24.48	16.87	39.65	ppb
Potassium	39-2	504.98	505.47	500.48	503.64	0.55	ppb
Rhodium	103-1				108		%
Rhodium	103-2				108		%
Scandium	45-1				109		%
Scandium	45-2				105		%
Selenium	82-1	4.65	5.65	5.87	5.39	12.05	ppb
Selenium	77-2	5.03	5.31	4.21	4.85	11.72	ppb
Selenium	78-2	1.78	3.67	5.48	3.65	50.75	ppb
Silicon	28-1	-62.57	-80.22	-52.63	-65.14		ppb
Silver	107-1	0.94	1.05	1.05	1.02	6.18	ppb
Silver	109-1	0.90	1.12	1.12	1.05	11.92	ppb
Sodium	23-2	511.93	506.29	503.39	507.20	0.86	ppb
Strontium	86-1	1.30	1.21	1.10	1.20	8.21	ppb
Strontium	88-1	0.95	1.08	1.08	1.04	7.24	ppb
Sulfur	34-1	-1722.80	-1379.29	-1048.17	-1383.42		ppb
Terbium	159-1				109		%
Terbium	159-2				109		%
Thallium	203-1	0.89	0.96	0.99	0.95	5.44	ppb
Thallium	205-1	0.88	1.01	0.96	0.95	6.70	ppb
Tin	118-1	4.68	5.17	5.18	5.01	5.68	ppb
Titanium	47-1	4.38	5.20	5.29	4.96	10.13	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.85	0.94	0.96	0.92	6.35	ppb
Vanadium	51-2	5.22	5.13	5.25	5.20	1.20	ppb
Yttrium	89-1				109		%
Yttrium	89-2				109		%
Zinc	66-2	5.40	5.41	5.29	5.37	1.26	ppb
Zirconium	90-1	0.93	1.01	1.03	0.99	5.48	ppb
Zirconium	91-1	1.02	1.12	1.09	1.08	4.87	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.44	-0.68	-0.03	-0.38		ppb
Antimony	121-1	0.00	0.01	0.00	0.00	134.74	ppb
Arsenic	75-2	0.00	0.02	0.02	0.01	116.11	ppb
Barium	135-1	0.00	0.00	0.00	0.00		ppb
Barium	137-1	-0.01	0.00	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	0.00	0.00	0.00		ppb
Bismuth	209-1				122		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.04	0.00	0.03	0.02	101.97	ppb
Cadmium	106-1	-0.65	0.10	-0.50	-0.35		ppb
Cadmium	111-1	-0.05	0.01	-0.03	-0.03		ppb
Calcium	43-1	-4.96	-6.33	-0.18	-3.82		ppb
Calcium	44-1	-7.52	-1.67	-1.21	-3.47		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.16	-0.18	-0.19	-0.18		ppb
Cobalt	59-2	0.00	0.00	0.01	0.00	94.62	ppb
Copper	63-2	-0.02	-0.02	-0.01	-0.02		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				121		%
Holmium	165-2				104		%
Indium	115-1				122		%
Indium	115-2				103		%
Iron	56-2	-0.91	-1.02	-1.32	-1.08		ppb
Iron	57-2	-3.92	-1.58	-3.32	-2.94		ppb
Iron	54-2	-0.74	-1.13	0.53	-0.45		ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	-0.02	0.02	0.01	0.00	698.29	ppb
Lead	207-1	-0.01	0.01	0.01	0.00	276.31	ppb
Lead	208-1	-0.02	0.02	0.01	0.00	1652.41	ppb
Lithium	6-1				124		%
Magnesium	24-2	-0.12	0.17	-0.14	-0.03		ppb
Manganese	55-2	0.32	0.25	-0.14	0.14	174.91	ppb
Molybdenum	94-1	0.01	0.01	-0.01	0.01	169.25	ppb
Molybdenum	95-1	0.01	0.00	0.00	0.00	113.40	ppb
Molybdenum	96-1	-0.01	-0.01	0.00	-0.01		ppb
Molybdenum	97-1	0.00	-0.01	-0.01	-0.01		ppb
Molybdenum	98-1	0.01	0.00	0.00	0.00	196.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.09	-0.16	-0.17	-0.14		ppb
Phosphorus	31-2	-19.19	-20.14	-13.59	-17.64		ppb
Potassium	39-2	-8.85	-5.01	-2.36	-5.41		ppb
Rhodium	103-1				122		%
Rhodium	103-2				103		%
Scandium	45-1				123		%
Scandium	45-2				101		%
Selenium	82-1	-1.65	-0.20	-0.36	-0.74		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-2.31	1.20	0.68	-0.14		ppb
Silicon	28-1	-165.79	-90.97	-69.93	-108.90		ppb
Silver	107-1	0.00	0.00	0.00	0.00	3804.43	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	4.23	6.08	4.94	5.08	18.40	ppb
Strontium	86-1	0.40	-0.04	-0.05	0.10	248.39	ppb
Strontium	88-1	0.00	0.01	0.01	0.01	73.02	ppb
Sulfur	34-1	-3772.44	-1646.50	-1411.35	-2276.76		ppb
Terbium	159-1				122		%
Terbium	159-2				104		%
Thallium	203-1	0.00	0.00	0.00	0.00	205.75	ppb
Thallium	205-1	0.00	0.01	0.00	0.00	233.79	ppb
Tin	118-1	-0.08	0.00	0.00	-0.02		ppb
Titanium	47-1	-0.05	-0.04	-0.04	-0.04		ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	2643.58	ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	155.20	ppb
Yttrium	89-1				124		%
Yttrium	89-2				104		%
Zinc	66-2	-0.10	0.03	-0.02	-0.03		ppb
Zirconium	90-1	0.01	0.00	0.01	0.01	43.83	ppb
Zirconium	91-1	-0.01	0.00	-0.01	-0.01		ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	96447.87	95710.12	96069.90	96075.96	0.38	ppb
Antimony	121-1	1.23	1.28	1.26	1.26	2.07	ppb
Arsenic	75-2	0.29	0.39	0.41	0.36	18.21	ppb
Barium	135-1	1.57	1.51	1.51	1.53	2.42	ppb
Barium	137-1	1.43	1.45	1.46	1.45	1.15	ppb
Beryllium	9-1	0.39	0.42	0.26	0.35	24.03	ppb
Bismuth	209-1				99		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	7.31	7.52	7.53	7.45	1.69	ppb
Cadmium	106-1	-1.00	-1.40	-0.98	-1.13		ppb
Cadmium	111-1	0.25	0.20	0.15	0.20	25.58	ppb
Calcium	43-1	102188.52	101819.56	102329.99	102112.69	0.26	ppb
Calcium	44-1	103578.97	102214.51	103777.55	103190.34	0.82	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	21.20	21.17	21.74	21.37	1.50	ppb
Cobalt	59-2	1.32	1.33	1.34	1.33	0.44	ppb
Copper	63-2	9.82	10.06	9.88	9.92	1.29	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				104		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	105682.82	105674.14	106264.89	105873.95	0.32	ppb
Iron	57-2	104392.78	103821.45	104154.00	104122.74	0.28	ppb
Iron	54-2	104236.70	102779.37	104692.38	103902.81	0.96	ppb
Krypton	83-1						cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	4.67	4.75	4.84	4.76	1.72	ppb
Lead	207-1	4.24	4.27	4.29	4.27	0.65	ppb
Lead	208-1	4.38	4.44	4.46	4.43	0.90	ppb
Lithium	6-1				98		%
Magnesium	24-2	96979.84	97115.39	98190.29	97428.51	0.68	ppb
Manganese	55-2	7.91	7.67	8.23	7.93	3.53	ppb
Molybdenum	94-1	1642.55	1685.62	1676.89	1668.35	1.36	ppb
Molybdenum	95-1	2007.51	2073.55	2064.26	2048.44	1.75	ppb
Molybdenum	96-1	1975.84	2024.07	2003.61	2001.17	1.21	ppb
Molybdenum	97-1	1995.54	2033.41	2052.05	2027.00	1.42	ppb
Molybdenum	98-1	2025.34	2024.63	2025.66	2025.21	0.03	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	6.41	6.44	6.56	6.47	1.22	ppb
Phosphorus	31-2	105844.38	104029.19	105058.39	104977.32	0.87	ppb
Potassium	39-2	98460.85	99013.70	99542.28	99005.61	0.55	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				97		%
Selenium	82-1	0.06	-0.64	0.08	-0.16		ppb
Selenium	77-2	0.63	0.00	0.65	0.43	86.62	ppb
Selenium	78-2	-2.16	-2.76	-1.39	-2.11		ppb
Silicon	28-1	-24.62	-47.79	-180.96	-84.46		ppb
Silver	107-1	0.02	0.03	0.03	0.03	24.17	ppb
Silver	109-1	0.02	0.02	0.03	0.02	28.07	ppb
Sodium	23-2	105630.87	102779.30	103598.87	104003.02	1.41	ppb
Strontium	86-1	34.37	34.79	34.15	34.44	0.94	ppb
Strontium	88-1	34.24	34.59	34.69	34.51	0.68	ppb
Sulfur	34-1	117539.68	115776.27	116973.50	116763.15	0.77	ppb
Terbium	159-1				101		%
Terbium	159-2				103		%
Thallium	203-1	0.05	0.07	0.08	0.07	21.73	ppb
Thallium	205-1	0.04	0.06	0.07	0.06	25.55	ppb
Tin	118-1	0.37	0.41	0.43	0.41	7.12	ppb
Titanium	47-1	2071.85	1989.59	2030.11	2030.52	2.03	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.02	0.02	0.02	0.02	5.17	ppb
Vanadium	51-2	0.20	0.20	0.22	0.21	5.13	ppb
Yttrium	89-1				101		%
Yttrium	89-2				101		%
Zinc	66-2	14.79	14.35	15.27	14.81	3.11	ppb
Zirconium	90-1	0.03	0.05	0.03	0.03	30.50	ppb
Zirconium	91-1	0.02	0.04	0.03	0.03	28.51	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	91696.64	90616.27	90927.42	91080.11	0.61	ppb
Antimony	121-1	19.51	19.59	19.83	19.64	0.83	ppb
Arsenic	75-2	19.24	19.08	18.97	19.10	0.71	ppb
Barium	135-1	19.71	19.77	19.85	19.78	0.36	ppb
Barium	137-1	20.07	20.02	20.41	20.17	1.05	ppb
Beryllium	9-1	20.39	20.32	20.51	20.41	0.47	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	23.60	23.66	23.38	23.54	0.64	ppb
Cadmium	106-1	17.10	15.88	15.23	16.07	5.92	ppb
Cadmium	111-1	19.01	19.36	19.71	19.36	1.81	ppb
Calcium	43-1	98846.57	97852.64	98694.69	98464.64	0.54	ppb
Calcium	44-1	99933.79	99214.26	98723.60	99290.55	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	37.97	38.13	37.85	37.99	0.37	ppb
Cobalt	59-2	20.17	20.10	20.60	20.29	1.33	ppb
Copper	63-2	29.09	28.67	29.08	28.94	0.84	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				108		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	56-2	101524.68	101129.31	101606.41	101420.13	0.25	ppb
Iron	57-2	101413.65	100283.30	102140.46	101279.14	0.92	ppb
Iron	54-2	100415.61	100509.16	100655.83	100526.87	0.12	ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	23.31	22.95	23.30	23.19	0.88	ppb
Lead	207-1	22.19	22.31	22.00	22.17	0.71	ppb
Lead	208-1	22.25	22.03	22.49	22.25	1.04	ppb
Lithium	6-1				103		%
Magnesium	24-2	91786.08	91781.64	92555.95	92041.22	0.48	ppb
Manganese	55-2	25.87	25.97	25.79	25.87	0.35	ppb
Molybdenum	94-1	1604.66	1612.40	1591.65	1602.90	0.65	ppb
Molybdenum	95-1	1965.27	1997.05	1944.22	1968.85	1.35	ppb
Molybdenum	96-1	1921.93	1959.19	1902.23	1927.78	1.50	ppb
Molybdenum	97-1	1979.13	1990.87	1945.71	1971.90	1.19	ppb
Molybdenum	98-1	1980.26	1985.76	1955.13	1973.71	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	25.25	25.52	25.81	25.52	1.09	ppb
Phosphorus	31-2	99766.69	99634.66	100898.64	100100.00	0.69	ppb
Potassium	39-2	94426.23	94826.25	96658.90	95303.79	1.25	ppb
Rhodium	103-1				100		%
Rhodium	103-2				101		%
Scandium	45-1				102		%
Scandium	45-2				102		%
Selenium	82-1	19.20	20.36	19.53	19.70	3.02	ppb
Selenium	77-2	17.39	18.23	22.09	19.24	13.04	ppb
Selenium	78-2	17.53	15.48	15.73	16.25	6.88	ppb
Silicon	28-1	-197.16	-196.91	-194.59	-196.22		ppb
Silver	107-1	18.23	18.27	18.33	18.28	0.29	ppb
Silver	109-1	18.20	18.29	18.45	18.31	0.68	ppb
Sodium	23-2	98125.74	99098.74	100536.79	99253.76	1.22	ppb
Strontium	86-1	32.80	33.47	33.48	33.25	1.18	ppb
Strontium	88-1	33.14	33.40	32.89	33.14	0.78	ppb
Sulfur	34-1	111039.14	108223.13	107230.20	108830.82	1.82	ppb
Terbium	159-1				107		%
Terbium	159-2				106		%
Thallium	203-1	18.71	18.79	18.99	18.83	0.77	ppb
Thallium	205-1	18.60	18.64	18.70	18.64	0.27	ppb
Tin	118-1	0.31	0.32	0.37	0.33	8.67	ppb
Titanium	47-1	1925.34	2000.38	1920.05	1948.59	2.31	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.03	0.03	0.03	0.03	11.58	ppb
Vanadium	51-2	19.08	18.98	18.89	18.98	0.50	ppb
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	33.34	33.94	33.99	33.76	1.08	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	13.09	ppb
Zirconium	91-1	0.04	0.03	0.02	0.03	25.52	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49649.76	48616.96	49721.55	49329.42	1.25	ppb
Antimony	121-1	497.10	489.04	509.52	498.55	2.07	ppb
Arsenic	75-2	500.74	505.32	489.75	498.60	1.61	ppb
Barium	135-1	2514.63	2477.81	2553.18	2515.21	1.50	ppb
Barium	137-1	2589.03	2447.37	2546.00	2527.47	2.87	ppb
Beryllium	9-1	506.66	501.23	505.62	504.50	0.57	ppb
Bismuth	209-1				101		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	478.33	477.82	480.86	479.01	0.34	ppb
Cadmium	106-1	485.09	473.14	482.28	480.17	1.30	ppb
Cadmium	111-1	484.31	471.75	485.04	480.37	1.56	ppb
Calcium	43-1	247225.08	248409.16	251421.54	249018.59	0.87	ppb
Calcium	44-1	247268.53	247473.02	252096.42	248945.99	1.10	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	498.59	491.79	491.28	493.89	0.83	ppb
Cobalt	59-2	505.33	512.69	495.45	504.49	1.71	ppb
Copper	63-2	5070.54	4904.97	4966.51	4980.67	1.68	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				105		%
Holmium	165-2				106		%
Indium	115-1				100		%
Indium	115-2				99		%
Iron	56-2	126759.13	126041.49	122356.21	125052.27	1.89	ppb
Iron	57-2	127047.23	125470.19	123595.01	125370.81	1.38	ppb
Iron	54-2	124669.25	123451.86	122503.56	123541.56	0.88	ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2547.19	2517.82	2611.44	2558.82	1.87	ppb
Lead	207-1	2543.42	2528.15	2593.66	2555.08	1.34	ppb
Lead	208-1	2535.09	2521.40	2592.05	2549.51	1.47	ppb
Lithium	6-1				96		%
Magnesium	24-2	247345.55	248020.51	246102.20	247156.09	0.39	ppb
Manganese	55-2	4987.76	4877.07	4797.36	4887.40	1.96	ppb
Molybdenum	94-1	5027.23	5014.12	5032.86	5024.73	0.19	ppb
Molybdenum	95-1	5022.00	5044.42	5151.12	5072.51	1.36	ppb
Molybdenum	96-1	5099.48	5048.92	5142.30	5096.90	0.92	ppb
Molybdenum	97-1	5031.27	5041.07	5107.37	5059.91	0.82	ppb
Molybdenum	98-1	5062.54	5047.06	5192.60	5100.73	1.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	502.89	490.52	490.83	494.75	1.43	ppb
Phosphorus	31-2	10216.77	10207.06	10245.55	10223.12	0.20	ppb
Potassium	39-2	123647.78	121535.44	124126.36	123103.19	1.12	ppb
Rhodium	103-1				97		%
Rhodium	103-2				98		%
Scandium	45-1				99		%
Scandium	45-2				100		%
Selenium	82-1	476.17	472.77	486.00	478.31	1.44	ppb
Selenium	77-2	492.02	498.55	480.27	490.28	1.89	ppb
Selenium	78-2	488.64	492.83	479.95	487.14	1.35	ppb
Silicon	28-1	416.18	429.38	435.62	427.06	2.32	ppb
Silver	107-1	488.54	483.76	491.35	487.88	0.79	ppb
Silver	109-1	489.58	483.46	494.37	489.14	1.12	ppb
Sodium	23-2	248652.24	246988.01	252239.18	249293.14	1.08	ppb
Strontium	86-1	493.14	487.42	498.93	493.16	1.17	ppb
Strontium	88-1	497.60	499.85	514.35	503.94	1.80	ppb
Sulfur	34-1	8866.22	8881.94	9040.98	8929.71	1.08	ppb
Terbium	159-1				105		%
Terbium	159-2				106		%
Thallium	203-1	509.45	503.83	516.34	509.88	1.23	ppb
Thallium	205-1	509.45	507.19	516.13	510.92	0.91	ppb
Tin	118-1	497.54	487.66	506.22	497.14	1.87	ppb
Titanium	47-1	5061.90	4961.65	5134.68	5052.74	1.72	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	524.89	513.91	519.12	519.30	1.06	ppb
Vanadium	51-2	502.51	493.00	485.97	493.83	1.68	ppb
Yttrium	89-1				102		%
Yttrium	89-2				104		%
Zinc	66-2	4899.85	4766.97	4691.41	4786.08	2.20	ppb
Zirconium	90-1	500.42	513.93	520.55	511.63	2.01	ppb
Zirconium	91-1	494.83	491.94	500.99	495.92	0.93	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	30.82	31.61	30.41	30.94	1.97	ppb
Antimony	121-1	0.07	0.10	0.11	0.10	20.73	ppb
Arsenic	75-2	0.03	0.02	0.02	0.02	28.64	ppb
Barium	135-1	0.01	0.03	0.05	0.03	69.08	ppb
Barium	137-1	0.01	0.03	0.03	0.02	55.21	ppb
Beryllium	9-1	0.06	0.02	0.00	0.03	99.86	ppb
Bismuth	209-1				109		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.14	0.10	0.08	92.95	ppb
Cadmium	106-1	-1.29	-1.99	-2.09	-1.79		ppb
Cadmium	111-1	-0.06	-0.14	-0.11	-0.10		ppb
Calcium	43-1	2.88	-0.03	-0.43	0.81	224.23	ppb
Calcium	44-1	5.41	3.93	5.99	5.11	20.78	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.11	-0.23	-0.21	-0.18		ppb
Cobalt	59-2	0.01	0.00	0.00	0.00	252.68	ppb
Copper	63-2	0.69	0.53	0.57	0.60	13.74	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				107		%
Indium	115-1				108		%
Indium	115-2				105		%
Iron	56-2	1.13	1.04	1.05	1.07	4.73	ppb
Iron	57-2	-2.45	-0.85	-2.24	-1.85		ppb
Iron	54-2	0.88	1.28	0.46	0.87	46.93	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.05	0.07	0.09	0.07	30.59	ppb
Lead	207-1	0.06	0.07	0.10	0.08	29.98	ppb
Lead	208-1	0.05	0.06	0.09	0.07	28.42	ppb
Lithium	6-1				98		%
Magnesium	24-2	3.68	3.61	3.83	3.71	3.06	ppb
Manganese	55-2	0.75	0.61	0.48	0.61	21.44	ppb
Molybdenum	94-1	0.25	0.27	0.21	0.24	12.47	ppb
Molybdenum	95-1	0.13	0.13	0.12	0.13	1.88	ppb
Molybdenum	96-1	0.13	0.16	0.10	0.13	24.35	ppb
Molybdenum	97-1	0.16	0.13	0.09	0.13	26.48	ppb
Molybdenum	98-1	0.14	0.10	0.11	0.12	14.58	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.06	-0.03	-0.04		ppb
Phosphorus	31-2	-22.33	-10.91	-25.12	-19.45		ppb
Potassium	39-2	-9.81	-6.97	-3.14	-6.64		ppb
Rhodium	103-1				106		%
Rhodium	103-2				106		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	0.87	0.45	0.32	0.55	53.27	ppb
Selenium	77-2	0.30	0.00	0.00	0.10	173.21	ppb
Selenium	78-2	-0.69	-1.12	-0.89	-0.90		ppb
Silicon	28-1	-196.88	-81.13	-59.75	-112.59		ppb
Silver	107-1	0.02	0.02	0.02	0.02	21.12	ppb
Silver	109-1	0.01	0.01	0.02	0.01	31.93	ppb
Sodium	23-2	20.54	18.91	20.29	19.91	4.41	ppb
Strontium	86-1	-0.01	0.01	0.00	0.00		ppb
Strontium	88-1	0.01	0.01	0.01	0.01	5.33	ppb
Sulfur	34-1	-2681.40	-2709.56	-2595.19	-2662.05		ppb
Terbium	159-1				108		%
Terbium	159-2				107		%
Thallium	203-1	0.07	0.05	0.07	0.06	15.50	ppb
Thallium	205-1	0.07	0.07	0.07	0.07	3.39	ppb
Tin	118-1	0.04	0.06	0.06	0.05	15.03	ppb
Titanium	47-1	0.06	0.03	0.11	0.07	59.31	ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.01	0.00	0.01	0.01	29.57	ppb
Vanadium	51-2	0.01	0.02	0.01	0.02	33.15	ppb
Yttrium	89-1				107		%
Yttrium	89-2				106		%
Zinc	66-2	0.60	0.36	0.41	0.45	27.69	ppb
Zirconium	90-1	0.10	0.08	0.09	0.09	8.90	ppb
Zirconium	91-1	0.09	0.09	0.07	0.08	16.47	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.49	19.34	19.94	19.59	1.57	ppb
Antimony	121-1	2.06	2.14	2.09	2.09	1.86	ppb
Arsenic	75-2	1.28	1.16	1.18	1.20	5.39	ppb
Barium	135-1	10.27	10.62	10.06	10.31	2.74	ppb
Barium	137-1	10.27	10.32	10.15	10.25	0.87	ppb
Beryllium	9-1	1.01	1.07	1.08	1.05	3.66	ppb
Bismuth	209-1				109		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.94	1.58	0.98	1.17	30.94	ppb
Cadmium	106-1	-1.21	-0.61	-1.11	-0.97		ppb
Cadmium	111-1	0.96	1.01	0.96	0.98	2.83	ppb
Calcium	43-1	522.62	525.53	520.46	522.87	0.49	ppb
Calcium	44-1	541.56	535.02	538.47	538.35	0.61	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1.90	1.70	1.72	1.77	6.12	ppb
Cobalt	59-2	1.07	1.16	1.20	1.14	6.00	ppb
Copper	63-2	2.45	2.75	2.44	2.55	6.90	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				108		%
Holmium	165-2				112		%
Indium	115-1				109		%
Indium	115-2				110		%
Iron	56-2	53.89	53.90	53.55	53.78	0.36	ppb
Iron	57-2	52.76	48.59	56.54	52.63	7.55	ppb
Iron	54-2	54.99	53.95	50.86	53.27	4.03	ppb
Krypton	83-1						cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.96	1.02	1.05	1.01	4.27	ppb
Lead	207-1	1.03	1.00	0.99	1.01	2.04	ppb
Lead	208-1	0.99	1.01	0.99	0.99	1.31	ppb
Lithium	6-1				102		%
Magnesium	24-2	494.81	494.25	492.68	493.91	0.22	ppb
Manganese	55-2	1.18	0.92	1.18	1.10	13.71	ppb
Molybdenum	94-1	6.30	6.03	6.16	6.17	2.16	ppb
Molybdenum	95-1	5.07	4.91	5.11	5.03	2.16	ppb
Molybdenum	96-1	5.23	5.18	5.25	5.22	0.64	ppb
Molybdenum	97-1	5.21	5.10	5.10	5.14	1.31	ppb
Molybdenum	98-1	5.13	5.03	5.13	5.10	1.12	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.86	1.02	0.94	8.48	ppb
Phosphorus	31-2	3.11	4.32	14.46	7.29	85.42	ppb
Potassium	39-2	492.37	490.42	486.26	489.68	0.64	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				107		%
Scandium	45-2				106		%
Selenium	82-1	6.32	5.57	5.71	5.87	6.87	ppb
Selenium	77-2	5.61	7.51	4.60	5.91	25.04	ppb
Selenium	78-2	4.05	7.33	5.74	5.70	28.79	ppb
Silicon	28-1	-73.41	-80.53	-88.45	-80.80		ppb
Silver	107-1	1.05	1.13	1.04	1.07	4.79	ppb
Silver	109-1	1.04	1.11	1.03	1.06	4.36	ppb
Sodium	23-2	490.97	501.71	491.40	494.69	1.23	ppb
Strontium	86-1	1.05	1.04	1.13	1.07	4.98	ppb
Strontium	88-1	1.02	1.02	1.06	1.03	2.55	ppb
Sulfur	34-1	-2067.08	-2133.79	-2283.16	-2161.34		ppb
Terbium	159-1				109		%
Terbium	159-2				111		%
Thallium	203-1	0.99	0.96	1.03	0.99	3.46	ppb
Thallium	205-1	0.99	0.99	1.04	1.00	2.83	ppb
Tin	118-1	5.20	5.36	5.10	5.22	2.49	ppb
Titanium	47-1	4.99	5.04	4.96	5.00	0.79	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.96	0.93	0.98	0.96	2.54	ppb
Vanadium	51-2	5.21	5.09	5.34	5.21	2.41	ppb
Yttrium	89-1				109		%
Yttrium	89-2				111		%
Zinc	66-2	5.51	5.45	5.55	5.50	0.94	ppb
Zirconium	90-1	1.08	1.05	1.06	1.06	1.87	ppb
Zirconium	91-1	1.07	1.03	1.04	1.04	1.88	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.03	-0.19	-0.27	-0.14		ppb
Antimony	121-1	0.00	0.00	0.01	0.00	46.74	ppb
Arsenic	75-2	0.02	0.02	0.03	0.02	30.51	ppb
Barium	135-1	0.00	0.01	0.00	0.00	121.62	ppb
Barium	137-1	0.00	-0.01	-0.01	0.00		ppb
Beryllium	9-1	0.04	0.00	0.03	0.02	96.82	ppb
Bismuth	209-1				108		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.00	0.07	-0.04	0.01	622.48	ppb
Cadmium	106-1	-3.18	-1.47	-2.66	-2.44		ppb
Cadmium	111-1	-0.20	-0.11	-0.18	-0.16		ppb
Calcium	43-1	-4.55	1.68	-1.10	-1.32		ppb
Calcium	44-1	-1.53	-1.06	-0.32	-0.97		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.35	-0.36	-0.33	-0.34		ppb
Cobalt	59-2	0.00	0.00	-0.01	-0.01		ppb
Copper	63-2	0.10	0.15	0.07	0.10	39.68	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				107		%
Indium	115-1				111		%
Indium	115-2				111		%
Iron	56-2	-1.89	-2.01	-1.79	-1.90		ppb
Iron	57-2	-4.64	-4.47	-3.72	-4.28		ppb
Iron	54-2	-3.44	-2.93	-2.48	-2.95		ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	0.01	0.00	0.01	134.06	ppb
Lead	207-1	0.00	-0.01	-0.02	-0.01		ppb
Lead	208-1	0.01	0.00	-0.01	0.00		ppb
Lithium	6-1				97		%
Magnesium	24-2	0.04	0.01	-0.15	-0.03		ppb
Manganese	55-2	0.27	0.21	0.27	0.25	14.06	ppb
Molybdenum	94-1	0.02	0.03	0.02	0.02	34.20	ppb
Molybdenum	95-1	0.00	0.00	-0.01	0.00		ppb
Molybdenum	96-1	-0.01	-0.01	0.00	0.00		ppb
Molybdenum	97-1	0.00	-0.03	-0.01	-0.01		ppb
Molybdenum	98-1	0.01	-0.01	-0.01	0.00		ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.29	-0.23	-0.22	-0.25		ppb
Phosphorus	31-2	-22.21	-26.17	-19.88	-22.75		ppb
Potassium	39-2	-13.07	-14.66	-9.88	-12.54		ppb
Rhodium	103-1				110		%
Rhodium	103-2				110		%
Scandium	45-1				110		%
Scandium	45-2				106		%
Selenium	82-1	0.45	-0.31	-0.42	-0.09		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.36	1.35	-1.06	-0.02		ppb
Silicon	28-1	-39.00	-45.73	-35.50	-40.08		ppb
Silver	107-1	0.00	0.00	0.00	0.00	150.74	ppb
Silver	109-1	0.00	0.00	0.00	0.00		ppb
Sodium	23-2	2.76	3.56	3.00	3.11	13.22	ppb
Strontium	86-1	-0.02	0.01	0.00	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-1766.95	-1682.70	-1753.22	-1734.29		ppb
Terbium	159-1				110		%
Terbium	159-2				109		%
Thallium	203-1	0.00	0.00	0.01	0.00	595.67	ppb
Thallium	205-1	0.01	0.01	0.01	0.01	11.83	ppb
Tin	118-1	-0.01	0.00	0.01	0.00		ppb
Titanium	47-1	-0.04	-0.02	-0.03	-0.03		ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00		ppb
Vanadium	51-2	0.00	0.00	0.00	0.00	1086.26	ppb
Yttrium	89-1				110		%
Yttrium	89-2				110		%
Zinc	66-2	0.05	-0.10	-0.08	-0.04		ppb
Zirconium	90-1	0.00	0.00	0.01	0.01	85.91	ppb
Zirconium	91-1	0.00	0.02	0.00	0.00	347.56	ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9236.66	9170.28	9174.96	9193.97	0.40	ppb
Antimony	121-1	500.60	493.93	511.17	501.90	1.73	ppb
Arsenic	75-2	501.96	507.69	491.07	500.24	1.69	ppb
Barium	135-1	2529.72	2525.92	2560.66	2538.77	0.75	ppb
Barium	137-1	2474.67	2521.96	2521.33	2505.99	1.08	ppb
Beryllium	9-1	496.29	512.23	520.59	509.71	2.42	ppb
Bismuth	209-1				108		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	493.98	501.40	500.95	498.78	0.83	ppb
Cadmium	106-1	501.94	494.51	502.10	499.52	0.87	ppb
Cadmium	111-1	501.12	507.14	511.14	506.47	1.00	ppb
Calcium	43-1	48126.24	51022.80	49618.67	49589.24	2.92	ppb
Calcium	44-1	48893.22	51127.72	49855.39	49958.78	2.24	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	490.10	499.67	500.32	496.70	1.15	ppb
Cobalt	59-2	502.82	516.02	522.53	513.79	1.95	ppb
Copper	63-2	5069.99	5162.40	5141.02	5124.47	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				109		%
Holmium	165-2				107		%
Indium	115-1				106		%
Indium	115-2				103		%
Iron	56-2	25471.07	26452.98	26233.87	26052.64	1.98	ppb
Iron	57-2	25605.23	26541.75	26289.11	26145.36	1.85	ppb
Iron	54-2	25913.61	26404.40	26777.86	26365.29	1.64	ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2444.13	2452.49	2505.01	2467.21	1.34	ppb
Lead	207-1	2426.95	2416.04	2482.62	2441.87	1.46	ppb
Lead	208-1	2436.80	2446.55	2504.37	2462.57	1.48	ppb
Lithium	6-1				97		%
Magnesium	24-2	49494.88	48905.21	49457.11	49285.73	0.67	ppb
Manganese	55-2	4866.80	5222.82	5126.95	5072.19	3.63	ppb
Molybdenum	94-1	4756.14	5141.62	5001.31	4966.35	3.93	ppb
Molybdenum	95-1	4759.73	5054.26	5004.18	4939.39	3.19	ppb
Molybdenum	96-1	4691.34	5110.22	5012.21	4937.92	4.44	ppb
Molybdenum	97-1	4740.12	5101.89	5020.21	4954.07	3.83	ppb
Molybdenum	98-1	4815.22	5178.15	5027.39	5006.92	3.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	497.80	514.98	514.12	508.97	1.90	ppb
Phosphorus	31-2	9961.34	10026.81	9999.13	9995.76	0.33	ppb
Potassium	39-2	24074.68	23952.25	24257.63	24094.85	0.64	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				100		%
Selenium	82-1	481.53	514.40	514.42	503.45	3.77	ppb
Selenium	77-2	487.58	499.15	468.98	485.24	3.14	ppb
Selenium	78-2	502.02	501.88	510.49	504.80	0.98	ppb
Silicon	28-1	412.83	476.66	452.29	447.26	7.20	ppb
Silver	107-1	505.73	505.70	505.27	505.57	0.05	ppb
Silver	109-1	511.67	520.90	512.05	514.87	1.01	ppb
Sodium	23-2	50767.14	49790.70	50263.05	50273.63	0.97	ppb
Strontium	86-1	469.07	497.60	488.15	484.94	3.00	ppb
Strontium	88-1	467.64	509.09	503.18	493.30	4.55	ppb
Sulfur	34-1	8454.56	9124.63	8589.87	8723.02	4.06	ppb
Terbium	159-1				109		%
Terbium	159-2				107		%
Thallium	203-1	493.89	486.32	502.83	494.35	1.67	ppb
Thallium	205-1	497.99	493.76	496.89	496.21	0.44	ppb
Tin	118-1	496.37	496.10	507.39	499.95	1.29	ppb
Titanium	47-1	4842.89	5093.89	4928.34	4955.04	2.58	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	479.07	475.98	486.44	480.50	1.12	ppb
Vanadium	51-2	482.62	497.17	494.96	491.58	1.59	ppb
Yttrium	89-1				107		%
Yttrium	89-2				107		%
Zinc	66-2	5099.04	5237.67	5247.08	5194.60	1.60	ppb
Zirconium	90-1	476.45	496.41	506.38	493.08	3.09	ppb
Zirconium	91-1	465.47	501.12	490.03	485.54	3.76	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	7467.21	7916.75	8324.87	7902.94	5.43	ppb
Antimony	121-1	0.13	0.12	0.15	0.13	12.29	ppb
Arsenic	75-2	1.94	1.73	2.11	1.92	9.90	ppb
Barium	135-1	108.52	109.40	109.33	109.08	0.45	ppb
Barium	137-1	110.92	110.20	111.53	110.88	0.60	ppb
Beryllium	9-1	0.41	0.33	0.42	0.39	12.50	ppb
Bismuth	209-1				109		%
Bismuth	209-2				106		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.63	0.48	0.68	0.59	17.32	ppb
Cadmium	106-1	0.02	-1.42	-1.37	-0.92		ppb
Cadmium	111-1	0.33	0.20	0.16	0.23	38.66	ppb
Calcium	43-1	2544.04	2465.10	2540.01	2516.38	1.77	ppb
Calcium	44-1	2533.77	2546.11	2570.81	2550.23	0.74	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	18.28	19.49	21.07	19.61	7.13	ppb
Cobalt	59-2	1.71	1.81	1.91	1.81	5.74	ppb
Copper	63-2	10.96	11.90	12.56	11.80	6.82	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				109		%
Holmium	165-2				105		%
Indium	115-1				108		%
Indium	115-2				102		%
Iron	56-2	3691.08	3927.24	4112.15	3910.16	5.40	ppb
Iron	57-2	3686.30	3904.93	4147.76	3913.00	5.90	ppb
Iron	54-2	3683.48	3872.67	4108.30	3888.15	5.47	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	31.47	31.66	31.36	31.50	0.48	ppb
Lead	207-1	29.46	29.79	29.48	29.58	0.63	ppb
Lead	208-1	30.15	30.49	30.35	30.33	0.56	ppb
Lithium	6-1				103		%
Magnesium	24-2	1015.83	1063.18	1113.95	1064.32	4.61	ppb
Manganese	55-2	94.17	97.55	105.27	99.00	5.75	ppb
Molybdenum	94-1	6.50	5.91	5.77	6.06	6.40	ppb
Molybdenum	95-1	0.26	0.21	0.23	0.24	10.84	ppb
Molybdenum	96-1	0.97	0.86	0.89	0.91	6.32	ppb
Molybdenum	97-1	0.29	0.25	0.28	0.27	7.40	ppb
Molybdenum	98-1	0.22	0.23	0.23	0.23	2.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.88	7.75	8.52	8.05	5.17	ppb
Phosphorus	31-2	132.20	114.95	115.11	120.75	8.21	ppb
Potassium	39-2	596.20	630.37	679.96	635.51	6.63	ppb
Rhodium	103-1				107		%
Rhodium	103-2				102		%
Scandium	45-1				105		%
Scandium	45-2				100		%
Selenium	82-1	0.59	0.09	0.58	0.42	68.67	ppb
Selenium	77-2	5.84	3.95	3.83	4.54	24.94	ppb
Selenium	78-2	-1.67	0.90	-0.08	-0.28		ppb
Silicon	28-1	402.35	415.90	436.21	418.15	4.08	ppb
Silver	107-1	22.99	23.28	23.19	23.16	0.64	ppb
Silver	109-1	23.14	23.30	23.07	23.17	0.50	ppb
Sodium	23-2	495.25	524.86	556.93	525.68	5.87	ppb
Strontium	86-1	21.53	21.17	21.29	21.33	0.86	ppb
Strontium	88-1	21.26	21.06	21.26	21.19	0.55	ppb
Sulfur	34-1	-2284.97	-2459.91	-2603.39	-2449.43		ppb
Terbium	159-1				109		%
Terbium	159-2				105		%
Thallium	203-1	0.13	0.17	0.15	0.15	12.07	ppb
Thallium	205-1	0.15	0.13	0.16	0.15	9.58	ppb
Tin	118-1	0.08	0.08	0.09	0.08	7.27	ppb
Titanium	47-1	54.80	54.21	54.69	54.56	0.58	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.90	0.94	0.90	0.91	2.22	ppb
Vanadium	51-2	10.32	11.05	11.36	10.91	4.89	ppb
Yttrium	89-1				109		%
Yttrium	89-2				106		%
Zinc	66-2	34.62	36.44	36.54	35.87	3.01	ppb
Zirconium	90-1	3.37	3.24	3.15	3.25	3.41	ppb
Zirconium	91-1	3.36	3.26	3.26	3.29	1.82	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9556.22	9563.26	9601.75	9573.74	0.26	ppb
Antimony	121-1	0.25	0.24	0.23	0.24	5.80	ppb
Arsenic	75-2	8.46	8.44	7.93	8.28	3.59	ppb
Barium	135-1	351.89	360.81	347.85	353.51	1.88	ppb
Barium	137-1	356.64	364.20	353.18	358.01	1.57	ppb
Beryllium	9-1	1.34	1.39	1.48	1.40	5.24	ppb
Bismuth	209-1				113		%
Bismuth	209-2				115		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.61	1.29	1.57	1.49	11.58	ppb
Cadmium	106-1	0.89	0.46	1.02	0.79	37.37	ppb
Cadmium	111-1	1.31	1.33	1.26	1.30	2.85	ppb
Calcium	43-1	9466.77	9475.77	9009.41	9317.32	2.86	ppb
Calcium	44-1	9217.86	9377.01	9214.70	9269.86	1.00	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.68	23.97	24.06	23.91	0.82	ppb
Cobalt	59-2	5.55	5.33	5.58	5.49	2.42	ppb
Copper	63-2	27.59	27.98	27.63	27.73	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				114		%
Indium	115-1				112		%
Indium	115-2				112		%
Iron	56-2	10602.71	10809.19	10978.84	10796.91	1.74	ppb
Iron	57-2	10736.39	10786.26	11048.85	10857.16	1.55	ppb
Iron	54-2	10812.41	10817.92	10898.34	10842.89	0.44	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	71.47	70.89	69.98	70.78	1.06	ppb
Lead	207-1	68.08	67.00	66.79	67.29	1.03	ppb
Lead	208-1	69.46	68.47	67.75	68.56	1.26	ppb
Lithium	6-1				104		%
Magnesium	24-2	1188.51	1189.73	1202.46	1193.57	0.65	ppb
Manganese	55-2	864.12	860.31	886.90	870.44	1.65	ppb
Molybdenum	94-1	6.38	6.24	6.21	6.27	1.42	ppb
Molybdenum	95-1	0.53	0.45	0.45	0.48	9.68	ppb
Molybdenum	96-1	1.25	1.25	1.22	1.24	1.50	ppb
Molybdenum	97-1	0.49	0.49	0.42	0.47	9.47	ppb
Molybdenum	98-1	0.49	0.42	0.46	0.46	7.78	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	15.20	15.32	15.62	15.38	1.43	ppb
Phosphorus	31-2	319.97	317.03	325.70	320.90	1.37	ppb
Potassium	39-2	619.72	638.49	655.19	637.80	2.78	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				110		%
Scandium	45-2				110		%
Selenium	82-1	0.94	1.09	1.59	1.21	27.80	ppb
Selenium	77-2	5.83	6.44	6.32	6.20	5.20	ppb
Selenium	78-2	-1.14	-1.66	-2.38	-1.73		ppb
Silicon	28-1	311.73	321.13	270.96	301.28	8.85	ppb
Silver	107-1	103.82	108.43	103.97	105.41	2.48	ppb
Silver	109-1	105.25	108.13	104.52	105.97	1.80	ppb
Sodium	23-2	943.61	953.13	958.99	951.91	0.82	ppb
Strontium	86-1	75.95	74.92	75.90	75.59	0.77	ppb
Strontium	88-1	74.35	74.51	74.58	74.48	0.16	ppb
Sulfur	34-1	-2272.87	-2260.12	-2554.78	-2362.59		ppb
Terbium	159-1				112		%
Terbium	159-2				114		%
Thallium	203-1	0.25	0.25	0.26	0.25	3.28	ppb
Thallium	205-1	0.25	0.24	0.25	0.25	3.68	ppb
Tin	118-1	0.14	0.16	0.16	0.16	9.20	ppb
Titanium	47-1	32.26	36.04	37.22	35.17	7.36	ppb

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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.75	1.77	1.76	1.76	0.62	ppb
Vanadium	51-2	15.64	15.52	16.00	15.72	1.58	ppb
Yttrium	89-1				114		%
Yttrium	89-2				116		%
Zinc	66-2	124.69	124.52	122.09	123.77	1.18	ppb
Zirconium	90-1	3.24	3.16	3.26	3.22	1.79	ppb
Zirconium	91-1	3.60	5.86	3.37	4.28	32.24	ppb

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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9381.68	9245.75	9416.44	9347.96	0.96	ppb
Antimony	121-1	0.18	0.19	0.20	0.19	4.96	ppb
Arsenic	75-2	6.21	5.72	6.09	6.01	4.23	ppb
Barium	135-1	323.44	324.76	317.26	321.82	1.24	ppb
Barium	137-1	326.55	326.28	322.52	325.11	0.69	ppb
Beryllium	9-1	0.99	1.05	1.20	1.08	10.32	ppb
Bismuth	209-1				112		%
Bismuth	209-2				114		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.88	1.23	1.34	1.15	20.96	ppb
Cadmium	106-1	1.47	1.44	-0.17	0.91	103.17	ppb
Cadmium	111-1	1.06	0.92	0.83	0.94	12.65	ppb
Calcium	43-1	8506.99	8390.84	8581.40	8493.08	1.13	ppb
Calcium	44-1	8533.63	8305.29	8688.61	8509.18	2.27	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	23.56	23.36	23.80	23.57	0.94	ppb
Cobalt	59-2	5.10	5.21	5.26	5.19	1.62	ppb
Copper	63-2	28.64	27.96	28.24	28.28	1.21	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				114		%
Indium	115-1				111		%
Indium	115-2				113		%
Iron	56-2	8768.09	8677.40	8812.06	8752.52	0.78	ppb
Iron	57-2	8693.47	8559.20	8866.90	8706.52	1.77	ppb
Iron	54-2	8744.69	8678.64	8858.59	8760.64	1.04	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	71.31	73.36	72.05	72.24	1.44	ppb
Lead	207-1	66.63	69.83	67.67	68.04	2.40	ppb
Lead	208-1	68.62	70.66	69.45	69.58	1.47	ppb
Lithium	6-1				104		%
Magnesium	24-2	1144.64	1137.09	1153.48	1145.07	0.72	ppb
Manganese	55-2	896.06	900.60	918.50	905.05	1.31	ppb
Molybdenum	94-1	5.47	5.46	5.52	5.48	0.63	ppb
Molybdenum	95-1	0.44	0.43	0.46	0.44	3.56	ppb
Molybdenum	96-1	1.16	1.14	1.09	1.13	3.11	ppb
Molybdenum	97-1	0.44	0.42	0.42	0.43	2.11	ppb
Molybdenum	98-1	0.43	0.40	0.40	0.41	3.45	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	10.93	10.23	10.93	10.70	3.75	ppb
Phosphorus	31-2	322.52	339.01	334.68	332.07	2.57	ppb
Potassium	39-2	625.45	611.83	638.22	625.16	2.11	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				111		%
Scandium	45-2				109		%
Selenium	82-1	1.58	0.79	1.75	1.37	37.34	ppb
Selenium	77-2	8.40	6.55	4.97	6.64	25.91	ppb
Selenium	78-2	-1.47	0.42	0.32	-0.25		ppb
Silicon	28-1	337.90	347.84	332.88	339.54	2.24	ppb
Silver	107-1	120.67	119.66	120.61	120.31	0.47	ppb
Silver	109-1	120.93	120.81	118.38	120.04	1.20	ppb
Sodium	23-2	924.70	916.53	930.96	924.06	0.78	ppb
Strontium	86-1	66.99	69.34	69.60	68.64	2.09	ppb
Strontium	88-1	67.06	68.89	68.01	67.99	1.35	ppb
Sulfur	34-1	-2399.89	-2446.87	-2320.29	-2389.02		ppb
Terbium	159-1				112		%
Terbium	159-2				113		%
Thallium	203-1	0.19	0.18	0.20	0.19	4.09	ppb
Thallium	205-1	0.18	0.19	0.20	0.19	4.50	ppb
Tin	118-1	0.15	0.17	0.16	0.16	6.48	ppb
Titanium	47-1	29.08	29.11	30.48	29.56	2.70	ppb

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	1.70	1.76	1.75	1.74	1.77	ppb
Vanadium	51-2	14.29	14.39	14.77	14.48	1.73	ppb
Yttrium	89-1				114		%
Yttrium	89-2				117		%
Zinc	66-2	101.33	98.69	100.89	100.31	1.41	ppb
Zirconium	90-1	2.74	2.87	2.84	2.82	2.29	ppb
Zirconium	91-1	2.66	2.93	2.99	2.86	6.14	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9948.17	10474.13	10515.89	10312.73	3.07	ppb
Antimony	121-1	0.10	0.08	0.08	0.09	11.85	ppb
Arsenic	75-2	3.34	3.25	3.41	3.34	2.38	ppb
Barium	135-1	259.72	261.63	258.23	259.86	0.66	ppb
Barium	137-1	263.27	265.84	261.16	263.42	0.89	ppb
Beryllium	9-1	1.25	1.36	1.38	1.33	5.00	ppb
Bismuth	209-1				112		%
Bismuth	209-2				112		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.10	1.37	1.12	1.20	12.56	ppb
Cadmium	106-1	0.52	0.92	-0.43	0.34	204.27	ppb
Cadmium	111-1	0.55	0.59	0.55	0.56	3.87	ppb
Calcium	43-1	4981.76	5046.55	5129.99	5052.77	1.47	ppb
Calcium	44-1	5012.13	4964.27	5125.66	5034.02	1.65	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	29.24	28.72	30.06	29.34	2.31	ppb
Cobalt	59-2	3.03	3.03	3.03	3.03	0.11	ppb
Copper	63-2	22.84	22.39	22.57	22.60	1.01	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				112		%
Indium	115-1				112		%
Indium	115-2				111		%
Iron	56-2	8887.98	8750.36	8707.71	8782.02	1.07	ppb
Iron	57-2	8756.79	8727.99	8835.43	8773.40	0.63	ppb
Iron	54-2	8794.38	8771.00	8870.22	8811.86	0.59	ppb
Krypton	83-1						cps

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	43.08	43.28	43.32	43.23	0.29	ppb
Lead	207-1	40.91	41.11	40.70	40.91	0.50	ppb
Lead	208-1	41.67	41.70	41.79	41.72	0.15	ppb
Lithium	6-1				104		%
Magnesium	24-2	1067.84	1062.21	1059.84	1063.29	0.39	ppb
Manganese	55-2	233.79	230.73	231.93	232.15	0.66	ppb
Molybdenum	94-1	10.58	10.72	10.94	10.75	1.71	ppb
Molybdenum	95-1	0.22	0.21	0.20	0.21	6.61	ppb
Molybdenum	96-1	1.46	1.46	1.52	1.48	2.19	ppb
Molybdenum	97-1	0.21	0.22	0.23	0.22	6.15	ppb
Molybdenum	98-1	0.21	0.20	0.21	0.21	2.64	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	7.85	8.07	8.02	7.98	1.45	ppb
Phosphorus	31-2	189.09	169.64	158.67	172.47	8.93	ppb
Potassium	39-2	849.25	849.06	860.38	852.90	0.76	ppb
Rhodium	103-1				110		%
Rhodium	103-2				112		%
Scandium	45-1				112		%
Scandium	45-2				109		%
Selenium	82-1	1.65	1.35	0.69	1.23	40.03	ppb
Selenium	77-2	9.60	7.63	5.59	7.61	26.38	ppb
Selenium	78-2	-0.21	-0.73	0.97	0.01	7355.86	ppb
Silicon	28-1	663.19	618.76	633.76	638.57	3.54	ppb
Silver	107-1	38.11	38.84	38.25	38.40	1.00	ppb
Silver	109-1	38.47	38.79	38.14	38.47	0.86	ppb
Sodium	23-2	609.30	606.91	622.26	612.83	1.35	ppb
Strontium	86-1	45.57	45.31	46.20	45.69	1.00	ppb
Strontium	88-1	45.03	45.46	45.32	45.27	0.48	ppb
Sulfur	34-1	-2739.94	-2866.48	-2851.84	-2819.42		ppb
Terbium	159-1				113		%
Terbium	159-2				112		%
Thallium	203-1	0.21	0.20	0.19	0.20	3.39	ppb
Thallium	205-1	0.20	0.20	0.18	0.19	3.66	ppb
Tin	118-1	0.06	0.08	0.08	0.07	15.28	ppb
Titanium	47-1	32.88	33.95	32.27	33.03	2.58	ppb

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.03	2.04	2.04	2.04	0.32	ppb
Vanadium	51-2	22.11	21.90	22.13	22.04	0.58	ppb
Yttrium	89-1				116		%
Yttrium	89-2				117		%
Zinc	66-2	54.19	53.66	54.50	54.12	0.79	ppb
Zirconium	90-1	5.72	5.81	5.94	5.82	1.84	ppb
Zirconium	91-1	6.00	5.90	6.04	5.98	1.18	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10949.40	11177.17	11202.05	11109.54	1.25	ppb
Antimony	121-1	0.07	0.07	0.06	0.07	7.43	ppb
Arsenic	75-2	3.46	3.60	3.83	3.63	5.19	ppb
Barium	135-1	266.17	264.75	264.14	265.02	0.39	ppb
Barium	137-1	268.29	267.39	268.23	267.97	0.19	ppb
Beryllium	9-1	1.32	1.35	1.34	1.34	1.17	ppb
Bismuth	209-1				111		%
Bismuth	209-2				110		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	1.05	1.43	1.53	1.34	19.15	ppb
Cadmium	106-1	1.51	-0.40	0.48	0.53	180.33	ppb
Cadmium	111-1	0.68	0.56	0.65	0.63	9.65	ppb
Calcium	43-1	5194.12	5231.84	5180.27	5202.08	0.51	ppb
Calcium	44-1	5110.90	5156.23	5159.93	5142.35	0.53	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	30.53	30.26	31.20	30.66	1.58	ppb
Cobalt	59-2	3.05	3.15	3.09	3.10	1.77	ppb
Copper	63-2	23.28	23.25	23.89	23.48	1.54	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				110		%
Indium	115-1				113		%
Indium	115-2				110		%
Iron	56-2	8930.76	8664.06	8761.30	8785.37	1.54	ppb
Iron	57-2	8617.43	8720.09	8744.96	8694.16	0.78	ppb
Iron	54-2	8619.75	8726.01	8631.48	8659.08	0.67	ppb
Krypton	83-1						cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	44.69	44.19	44.77	44.55	0.71	ppb
Lead	207-1	41.57	41.84	41.40	41.61	0.53	ppb
Lead	208-1	43.06	42.79	42.75	42.86	0.40	ppb
Lithium	6-1				101		%
Magnesium	24-2	1095.38	1120.26	1093.22	1102.95	1.36	ppb
Manganese	55-2	230.49	233.16	231.01	231.55	0.61	ppb
Molybdenum	94-1	16.54	11.82	11.46	13.27	21.32	ppb
Molybdenum	95-1	0.21	0.19	0.18	0.19	7.89	ppb
Molybdenum	96-1	1.52	1.64	1.81	1.66	8.81	ppb
Molybdenum	97-1	0.18	0.22	0.17	0.19	15.21	ppb
Molybdenum	98-1	0.21	0.20	0.20	0.20	3.77	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	8.41	8.43	8.01	8.28	2.85	ppb
Phosphorus	31-2	157.82	187.02	150.55	165.13	11.69	ppb
Potassium	39-2	919.95	940.27	949.55	936.59	1.62	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				112		%
Scandium	45-2				109		%
Selenium	82-1	0.58	0.93	1.71	1.07	53.92	ppb
Selenium	77-2	10.68	12.57	9.71	10.99	13.28	ppb
Selenium	78-2	1.93	2.39	0.82	1.71	47.00	ppb
Silicon	28-1	841.42	725.01	834.77	800.40	8.17	ppb
Silver	107-1	37.84	37.42	37.55	37.60	0.56	ppb
Silver	109-1	37.93	37.44	37.83	37.73	0.69	ppb
Sodium	23-2	625.24	620.30	624.21	623.25	0.42	ppb
Strontium	86-1	47.35	46.15	46.45	46.65	1.34	ppb
Strontium	88-1	46.60	46.13	45.60	46.11	1.08	ppb
Sulfur	34-1	-2992.38	-3078.51	-2967.32	-3012.74		ppb
Terbium	159-1				112		%
Terbium	159-2				111		%
Thallium	203-1	0.20	0.21	0.20	0.20	3.23	ppb
Thallium	205-1	0.20	0.21	0.19	0.20	6.33	ppb
Tin	118-1	0.09	0.06	0.07	0.07	21.61	ppb
Titanium	47-1	40.18	50.71	38.29	43.06	15.54	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	2.13	2.04	2.11	2.09	2.40	ppb
Vanadium	51-2	22.92	23.17	23.24	23.11	0.74	ppb
Yttrium	89-1				116		%
Yttrium	89-2				116		%
Zinc	66-2	55.09	55.17	54.55	54.94	0.61	ppb
Zirconium	90-1	6.48	6.30	6.28	6.35	1.75	ppb
Zirconium	91-1	6.56	6.36	6.62	6.51	2.10	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49852.51	50294.81	49469.45	49872.25	0.83	ppb
Antimony	121-1	499.60	487.68	487.30	491.53	1.42	ppb
Arsenic	75-2	508.01	493.94	491.42	497.79	1.80	ppb
Barium	135-1	2532.73	2546.57	2481.48	2520.26	1.36	ppb
Barium	137-1	2516.65	2519.41	2448.23	2494.76	1.62	ppb
Beryllium	9-1	517.04	524.62	524.28	521.98	0.82	ppb
Bismuth	209-1				103		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	491.15	475.75	492.00	486.30	1.88	ppb
Cadmium	106-1	482.61	485.36	480.11	482.69	0.54	ppb
Cadmium	111-1	482.48	480.71	480.43	481.21	0.23	ppb
Calcium	43-1	244695.83	245612.90	248626.36	246311.70	0.83	ppb
Calcium	44-1	244323.21	243735.68	249028.82	245695.90	1.18	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	493.35	491.65	497.09	494.03	0.56	ppb
Cobalt	59-2	501.71	504.39	510.87	505.66	0.93	ppb
Copper	63-2	4995.09	5011.26	4949.36	4985.24	0.64	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				109		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	56-2	125527.68	126195.18	124611.99	125444.95	0.63	ppb
Iron	57-2	128718.60	125801.39	126324.48	126948.15	1.23	ppb
Iron	54-2	125720.50	125037.48	127191.67	125983.22	0.87	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2569.27	2526.27	2595.13	2563.56	1.36	ppb
Lead	207-1	2523.90	2498.99	2545.98	2522.96	0.93	ppb
Lead	208-1	2517.74	2523.47	2545.72	2528.98	0.58	ppb
Lithium	6-1				100		%
Magnesium	24-2	248300.97	249998.42	247288.71	248529.37	0.55	ppb
Manganese	55-2	5003.13	4982.36	4987.43	4990.97	0.22	ppb
Molybdenum	94-1	5069.26	5156.57	4995.96	5073.93	1.58	ppb
Molybdenum	95-1	5032.56	5163.98	5078.94	5091.82	1.31	ppb
Molybdenum	96-1	5054.02	5098.53	5076.96	5076.50	0.44	ppb
Molybdenum	97-1	5003.88	5131.42	5045.62	5060.31	1.29	ppb
Molybdenum	98-1	5013.21	5170.81	5021.03	5068.35	1.75	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	495.04	488.39	495.59	493.00	0.81	ppb
Phosphorus	31-2	10336.65	10064.59	10248.88	10216.71	1.36	ppb
Potassium	39-2	122626.44	121172.77	122802.92	122200.71	0.73	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	469.46	473.81	464.21	469.16	1.02	ppb
Selenium	77-2	493.80	475.59	479.86	483.09	1.97	ppb
Selenium	78-2	474.93	472.05	475.91	474.30	0.42	ppb
Silicon	28-1	398.51	398.45	416.40	404.45	2.56	ppb
Silver	107-1	487.97	495.31	488.14	490.48	0.85	ppb
Silver	109-1	489.02	491.50	490.10	490.20	0.25	ppb
Sodium	23-2	256511.34	249267.61	250246.88	252008.61	1.56	ppb
Strontium	86-1	486.17	497.71	485.66	489.85	1.39	ppb
Strontium	88-1	512.67	508.02	500.27	506.98	1.24	ppb
Sulfur	34-1	9207.69	8958.30	9260.89	9142.29	1.77	ppb
Terbium	159-1				108		%
Terbium	159-2				109		%
Thallium	203-1	514.87	506.94	503.44	508.41	1.15	ppb
Thallium	205-1	515.39	510.83	519.19	515.14	0.81	ppb
Tin	118-1	496.04	497.96	492.76	495.59	0.53	ppb
Titanium	47-1	4940.28	4954.19	5029.32	4974.60	0.96	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	502.22	508.95	515.30	508.82	1.29	ppb
Vanadium	51-2	488.61	496.02	492.50	492.38	0.75	ppb
Yttrium	89-1				106		%
Yttrium	89-2				106		%
Zinc	66-2	4859.95	4813.15	4725.82	4799.64	1.42	ppb
Zirconium	90-1	502.51	516.57	504.39	507.82	1.50	ppb
Zirconium	91-1	491.45	501.86	493.59	495.63	1.11	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.83	0.57	1.32	0.91	41.89	ppb
Antimony	121-1	0.09	0.11	0.10	0.10	10.36	ppb
Arsenic	75-2	0.03	0.00	0.06	0.03	109.74	ppb
Barium	135-1	0.04	0.02	0.04	0.04	29.30	ppb
Barium	137-1	0.01	0.02	0.02	0.02	36.24	ppb
Beryllium	9-1	0.01	0.02	0.02	0.02	37.16	ppb
Bismuth	209-1				109		%
Bismuth	209-2				108		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.07	0.00	0.14	0.07	102.46	ppb
Cadmium	106-1	-0.44	-0.98	-2.20	-1.21		ppb
Cadmium	111-1	-0.01	-0.07	-0.15	-0.08		ppb
Calcium	43-1	-1.77	0.10	0.02	-0.55		ppb
Calcium	44-1	2.46	2.10	2.93	2.50	16.66	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.39	-0.37	-0.37	-0.38		ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	99.00	ppb
Copper	63-2	0.11	0.12	0.17	0.13	21.13	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				106		%
Holmium	165-2				108		%
Indium	115-1				105		%
Indium	115-2				104		%
Iron	56-2	-0.59	-0.60	-0.49	-0.56		ppb
Iron	57-2	-4.64	-1.72	-4.15	-3.50		ppb
Iron	54-2	-0.42	-1.38	-1.99	-1.26		ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.03	0.04	0.05	0.04	32.13	ppb
Lead	207-1	0.03	0.03	0.03	0.03	5.03	ppb
Lead	208-1	0.04	0.04	0.04	0.04	3.78	ppb
Lithium	6-1				105		%
Magnesium	24-2	4.57	4.52	4.97	4.68	5.25	ppb
Manganese	55-2	-5.28	-5.28	-5.22	-5.26		ppb
Molybdenum	94-1	0.28	0.18	0.20	0.22	23.00	ppb
Molybdenum	95-1	0.11	0.08	0.12	0.11	19.38	ppb
Molybdenum	96-1	0.12	0.10	0.10	0.11	14.31	ppb
Molybdenum	97-1	0.09	0.10	0.10	0.10	3.08	ppb
Molybdenum	98-1	0.12	0.12	0.10	0.11	10.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.19	-0.21	-0.18	-0.19		ppb
Phosphorus	31-2	-21.49	-26.46	-21.91	-23.29		ppb
Potassium	39-2	-18.27	-15.70	-15.45	-16.47		ppb
Rhodium	103-1				104		%
Rhodium	103-2				105		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	-0.39	-0.08	-0.31	-0.26		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-2.75	-2.76	-0.87	-2.13		ppb
Silicon	28-1	-212.65	-212.21	-212.62	-212.49		ppb
Silver	107-1	0.01	0.01	0.01	0.01	16.99	ppb
Silver	109-1	0.01	0.01	0.01	0.01	22.27	ppb
Sodium	23-2	10.04	11.30	9.61	10.32	8.50	ppb
Strontium	86-1	0.04	-0.02	0.03	0.02	202.37	ppb
Strontium	88-1	0.00	0.00	0.01	0.00	26.75	ppb
Sulfur	34-1	-2414.92	-2377.21	-2367.16	-2386.43		ppb
Terbium	159-1				106		%
Terbium	159-2				107		%
Thallium	203-1	0.02	0.03	0.03	0.02	12.58	ppb
Thallium	205-1	0.02	0.02	0.03	0.02	17.60	ppb
Tin	118-1	0.00	0.00	0.00	0.00	18013.95	ppb
Titanium	47-1	0.02	0.02	0.01	0.02	32.90	ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.01	0.01	0.01	6.68	ppb
Vanadium	51-2	0.01	0.01	0.01	0.01	30.29	ppb
Yttrium	89-1				104		%
Yttrium	89-2				106		%
Zinc	66-2	0.11	0.31	0.24	0.22	47.00	ppb
Zirconium	90-1	0.08	0.08	0.06	0.07	20.14	ppb
Zirconium	91-1	0.05	0.09	0.08	0.07	27.12	ppb

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On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2018.35	1987.57	2008.02	2004.65	0.78	ppb
Antimony	121-1	0.03	0.03	0.04	0.04	16.17	ppb
Arsenic	75-2	0.72	0.93	0.56	0.74	25.15	ppb
Barium	135-1	50.74	51.75	52.95	51.81	2.14	ppb
Barium	137-1	52.94	51.61	53.55	52.70	1.88	ppb
Beryllium	9-1	0.29	0.25	0.27	0.27	8.04	ppb
Bismuth	209-1				108		%
Bismuth	209-2				109		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.03	0.14	0.14	0.10	58.19	ppb
Cadmium	106-1	-0.03	-0.92	-1.37	-0.77		ppb
Cadmium	111-1	0.12	0.06	0.02	0.07	71.06	ppb
Calcium	43-1	1005.00	1019.24	1059.56	1027.93	2.75	ppb
Calcium	44-1	1006.53	1041.77	1051.80	1033.37	2.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5.69	5.86	5.64	5.73	1.98	ppb
Cobalt	59-2	0.58	0.58	0.61	0.59	2.98	ppb
Copper	63-2	4.62	4.32	4.60	4.52	3.72	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				106		%
Holmium	165-2				108		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	56-2	1781.70	1743.53	1764.79	1763.34	1.08	ppb
Iron	57-2	1781.23	1784.33	1756.69	1774.08	0.85	ppb
Iron	54-2	1760.53	1791.57	1782.02	1778.04	0.89	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	8.77	8.63	8.54	8.65	1.38	ppb
Lead	207-1	8.08	8.13	8.15	8.12	0.45	ppb
Lead	208-1	8.30	8.33	8.29	8.31	0.29	ppb
Lithium	6-1				102		%
Magnesium	24-2	216.65	216.67	215.70	216.34	0.26	ppb
Manganese	55-2	47.49	47.75	47.65	47.63	0.28	ppb
Molybdenum	94-1	2.62	2.63	2.38	2.54	5.68	ppb
Molybdenum	95-1	0.06	0.06	0.06	0.06	5.26	ppb
Molybdenum	96-1	0.38	0.39	0.37	0.38	3.20	ppb
Molybdenum	97-1	0.07	0.05	0.04	0.05	26.76	ppb
Molybdenum	98-1	0.07	0.05	0.06	0.06	17.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.41	1.47	1.45	1.44	2.06	ppb
Phosphorus	31-2	15.77	25.21	10.45	17.14	43.60	ppb
Potassium	39-2	162.93	157.13	158.52	159.53	1.90	ppb
Rhodium	103-1				103		%
Rhodium	103-2				107		%
Scandium	45-1				104		%
Scandium	45-2				103		%
Selenium	82-1	0.11	-0.13	-0.13	-0.05		ppb
Selenium	77-2	2.08	0.92	0.89	1.30	52.61	ppb
Selenium	78-2	-1.25	1.11	1.23	0.36	386.43	ppb
Silicon	28-1	61.54	62.13	62.20	61.96	0.59	ppb
Silver	107-1	7.66	7.42	7.67	7.58	1.83	ppb
Silver	109-1	7.61	7.52	7.82	7.65	1.97	ppb
Sodium	23-2	133.48	133.75	132.68	133.30	0.41	ppb
Strontium	86-1	9.36	9.48	9.21	9.35	1.41	ppb
Strontium	88-1	9.20	9.39	9.37	9.32	1.16	ppb
Sulfur	34-1	-2333.06	-2185.94	-2251.18	-2256.73		ppb
Terbium	159-1				105		%
Terbium	159-2				109		%
Thallium	203-1	0.05	0.04	0.04	0.04	12.33	ppb
Thallium	205-1	0.05	0.05	0.05	0.05	4.91	ppb
Tin	118-1	0.03	0.02	0.00	0.02	66.08	ppb
Titanium	47-1	6.27	6.97	6.86	6.70	5.65	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.40	0.39	0.39	0.39	0.78	ppb
Vanadium	51-2	4.52	4.46	4.68	4.56	2.43	ppb
Yttrium	89-1				106		%
Yttrium	89-2				108		%
Zinc	66-2	11.19	11.25	10.56	11.00	3.46	ppb
Zirconium	90-1	1.40	1.38	1.36	1.38	1.30	ppb
Zirconium	91-1	1.46	1.40	1.33	1.40	4.81	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	11949.04	12479.53	12098.00	12175.52	2.25	ppb
Antimony	121-1	91.01	92.49	93.22	92.24	1.22	ppb
Arsenic	75-2	3.53	3.27	3.53	3.44	4.36	ppb
Barium	135-1	649.96	664.88	664.92	659.92	1.31	ppb
Barium	137-1	653.80	669.14	671.89	664.95	1.47	ppb
Beryllium	9-1	101.62	102.33	103.17	102.37	0.76	ppb
Bismuth	209-1				112		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	94.35	94.64	99.51	96.17	3.01	ppb
Cadmium	106-1	95.39	97.88	101.34	98.20	3.04	ppb
Cadmium	111-1	95.98	99.06	100.28	98.44	2.25	ppb
Calcium	43-1	13979.58	14371.47	14273.09	14208.05	1.43	ppb
Calcium	44-1	14122.23	14295.10	14371.33	14262.89	0.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	118.19	118.20	117.40	117.93	0.39	ppb
Cobalt	59-2	94.96	96.25	95.79	95.67	0.68	ppb
Copper	63-2	971.70	980.28	990.89	980.96	0.98	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				112		%
Indium	115-1				109		%
Indium	115-2				109		%
Iron	56-2	12540.80	12699.19	12640.31	12626.77	0.63	ppb
Iron	57-2	12397.62	12587.49	12657.30	12547.47	1.07	ppb
Iron	54-2	12465.67	12527.25	12436.71	12476.54	0.37	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	510.42	503.44	506.91	506.92	0.69	ppb
Lead	207-1	474.84	463.35	478.61	472.27	1.68	ppb
Lead	208-1	500.88	493.65	501.57	498.70	0.88	ppb
Lithium	6-1				103		%
Magnesium	24-2	10553.49	10018.10	10195.50	10255.70	2.66	ppb
Manganese	55-2	1176.74	1152.83	1153.30	1160.96	1.18	ppb
Molybdenum	94-1	433.41	439.35	433.96	435.57	0.75	ppb
Molybdenum	95-1	317.94	323.83	320.06	320.61	0.93	ppb
Molybdenum	96-1	332.21	337.59	334.72	334.84	0.80	ppb
Molybdenum	97-1	323.08	326.79	326.24	325.37	0.61	ppb
Molybdenum	98-1	315.78	321.33	321.50	319.53	1.02	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	103.61	102.28	103.04	102.98	0.65	ppb
Phosphorus	31-2	136.83	156.97	155.63	149.81	7.52	ppb
Potassium	39-2	5078.25	4854.76	4893.27	4942.09	2.42	ppb
Rhodium	103-1				109		%
Rhodium	103-2				110		%
Scandium	45-1				110		%
Scandium	45-2				109		%
Selenium	82-1	98.64	98.04	98.42	98.37	0.31	ppb
Selenium	77-2	99.31	108.79	111.25	106.45	5.92	ppb
Selenium	78-2	93.74	97.50	101.65	97.63	4.05	ppb
Silicon	28-1	1787.93	962.60	1778.59	1509.71	31.39	ppb
Silver	107-1	50.98	52.08	52.23	51.76	1.31	ppb
Silver	109-1	50.93	52.03	52.15	51.70	1.30	ppb
Sodium	23-2	9937.24	9611.33	9731.13	9759.90	1.69	ppb
Strontium	86-1	150.09	153.56	151.89	151.84	1.14	ppb
Strontium	88-1	152.93	157.75	154.61	155.10	1.58	ppb
Sulfur	34-1	-2320.98	-2124.79	-2279.59	-2241.79		ppb
Terbium	159-1				111		%
Terbium	159-2				111		%
Thallium	203-1	87.30	86.46	88.10	87.28	0.94	ppb
Thallium	205-1	85.87	86.06	88.79	86.91	1.88	ppb
Tin	118-1	81.36	83.15	83.28	82.60	1.30	ppb
Titanium	47-1	48.74	52.32	61.64	54.23	12.28	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	84.22	84.07	85.73	84.67	1.09	ppb
Vanadium	51-2	114.78	115.16	113.59	114.51	0.72	ppb
Yttrium	89-1				114		%
Yttrium	89-2				114		%
Zinc	66-2	1011.44	1011.58	1012.32	1011.78	0.05	ppb
Zirconium	90-1	94.67	95.93	95.61	95.40	0.68	ppb
Zirconium	91-1	93.77	97.08	96.36	95.74	1.82	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12905.64	12015.57	12336.22	12419.14	3.63	ppb
Antimony	121-1	92.38	92.55	92.30	92.41	0.14	ppb
Arsenic	75-2	3.46	3.22	2.95	3.21	7.98	ppb
Barium	135-1	662.22	662.87	658.77	661.29	0.33	ppb
Barium	137-1	667.48	696.73	688.31	684.17	2.20	ppb
Beryllium	9-1	100.54	101.68	102.90	101.70	1.16	ppb
Bismuth	209-1				111		%
Bismuth	209-2				111		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	93.20	97.54	94.24	94.99	2.38	ppb
Cadmium	106-1	100.48	96.28	98.66	98.47	2.14	ppb
Cadmium	111-1	99.16	98.68	99.29	99.04	0.33	ppb
Calcium	43-1	14124.10	13988.75	14125.54	14079.46	0.56	ppb
Calcium	44-1	13932.92	14046.08	13981.49	13986.83	0.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	119.84	119.17	119.69	119.57	0.29	ppb
Cobalt	59-2	97.96	97.14	97.40	97.50	0.43	ppb
Copper	63-2	1023.12	993.09	976.72	997.65	2.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				113		%
Indium	115-1				110		%
Indium	115-2				109		%
Iron	56-2	12943.48	12770.70	12771.80	12828.66	0.78	ppb
Iron	57-2	12881.08	12764.31	12762.81	12802.74	0.53	ppb
Iron	54-2	12866.37	12798.35	12711.88	12792.20	0.61	ppb
Krypton	83-1						cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	499.93	517.32	519.16	512.14	2.07	ppb
Lead	207-1	475.74	488.70	485.93	483.46	1.41	ppb
Lead	208-1	494.16	514.85	510.36	506.46	2.15	ppb
Lithium	6-1				103		%
Magnesium	24-2	10387.93	10231.60	10525.44	10381.66	1.42	ppb
Manganese	55-2	1223.72	1201.11	1165.56	1196.79	2.45	ppb
Molybdenum	94-1	431.49	441.35	439.09	437.31	1.18	ppb
Molybdenum	95-1	314.55	320.58	324.10	319.75	1.51	ppb
Molybdenum	96-1	331.43	337.77	341.29	336.83	1.48	ppb
Molybdenum	97-1	321.38	326.16	330.87	326.14	1.46	ppb
Molybdenum	98-1	319.17	331.94	335.47	328.86	2.61	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	105.15	104.57	104.10	104.60	0.50	ppb
Phosphorus	31-2	159.86	160.79	154.95	158.53	1.98	ppb
Potassium	39-2	5127.29	5081.20	5173.63	5127.37	0.90	ppb
Rhodium	103-1				108		%
Rhodium	103-2				110		%
Scandium	45-1				112		%
Scandium	45-2				108		%
Selenium	82-1	95.80	98.97	100.00	98.26	2.23	ppb
Selenium	77-2	105.95	115.09	108.90	109.98	4.24	ppb
Selenium	78-2	106.27	95.32	98.76	100.12	5.59	ppb
Silicon	28-1	1085.35	1744.43	1106.48	1312.09	28.55	ppb
Silver	107-1	51.64	51.91	51.77	51.77	0.26	ppb
Silver	109-1	51.94	51.52	52.07	51.84	0.55	ppb
Sodium	23-2	9951.26	9927.88	9785.92	9888.35	0.90	ppb
Strontium	86-1	149.31	153.25	155.52	152.69	2.06	ppb
Strontium	88-1	157.41	154.42	156.53	156.12	0.99	ppb
Sulfur	34-1	-2640.76	-2703.08	-2726.15	-2690.00		ppb
Terbium	159-1				112		%
Terbium	159-2				111		%
Thallium	203-1	87.77	89.98	89.36	89.04	1.28	ppb
Thallium	205-1	86.68	89.07	89.92	88.56	1.90	ppb
Tin	118-1	82.57	83.22	83.22	83.00	0.45	ppb
Titanium	47-1	53.92	63.33	56.10	57.79	8.52	ppb

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	84.21	86.90	87.43	86.18	2.00	ppb
Vanadium	51-2	117.05	115.83	116.44	116.44	0.52	ppb
Yttrium	89-1				114		%
Yttrium	89-2				114		%
Zinc	66-2	1046.52	1028.07	1029.49	1034.69	0.99	ppb
Zirconium	90-1	94.45	95.65	97.03	95.71	1.35	ppb
Zirconium	91-1	95.73	96.75	98.30	96.92	1.33	ppb

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	12233.48	12214.91	11930.80	12126.40	1.40	ppb
Antimony	121-1	91.39	93.44	92.67	92.50	1.12	ppb
Arsenic	75-2	3.35	3.51	3.81	3.55	6.62	ppb
Barium	135-1	650.83	667.24	667.99	662.02	1.47	ppb
Barium	137-1	656.50	673.79	671.77	667.35	1.42	ppb
Beryllium	9-1	100.47	99.73	99.54	99.91	0.49	ppb
Bismuth	209-1				113		%
Bismuth	209-2				113		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	97.98	94.46	95.16	95.86	1.94	ppb
Cadmium	106-1	97.49	98.52	100.39	98.80	1.49	ppb
Cadmium	111-1	98.28	100.34	98.50	99.04	1.14	ppb
Calcium	43-1	13953.71	14434.96	13818.07	14068.91	2.30	ppb
Calcium	44-1	14151.71	14296.50	13944.53	14130.92	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	119.63	117.70	118.59	118.64	0.81	ppb
Cobalt	59-2	97.20	95.33	95.68	96.07	1.04	ppb
Copper	63-2	1004.78	1008.51	997.12	1003.47	0.58	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				112		%
Holmium	165-2				113		%
Indium	115-1				111		%
Indium	115-2				110		%
Iron	56-2	12700.22	12475.70	12781.72	12652.55	1.25	ppb
Iron	57-2	12717.58	12514.82	12554.73	12595.71	0.85	ppb
Iron	54-2	12681.88	12710.07	12610.43	12667.46	0.41	ppb
Krypton	83-1						cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	505.46	513.86	502.46	507.26	1.16	ppb
Lead	207-1	467.53	474.75	470.54	470.94	0.77	ppb
Lead	208-1	494.20	503.44	491.03	496.22	1.30	ppb
Lithium	6-1				103		%
Magnesium	24-2	10221.23	10186.46	10321.45	10243.05	0.68	ppb
Manganese	55-2	1161.78	1162.21	1170.64	1164.88	0.43	ppb
Molybdenum	94-1	428.76	433.89	440.80	434.48	1.39	ppb
Molybdenum	95-1	314.11	311.35	325.24	316.90	2.32	ppb
Molybdenum	96-1	330.85	325.47	336.99	331.11	1.74	ppb
Molybdenum	97-1	318.55	319.88	327.38	321.94	1.48	ppb
Molybdenum	98-1	316.18	318.39	322.34	318.97	0.98	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	104.06	103.03	105.21	104.10	1.05	ppb
Phosphorus	31-2	158.66	165.59	162.98	162.41	2.15	ppb
Potassium	39-2	5091.51	5111.77	5027.57	5076.95	0.87	ppb
Rhodium	103-1				109		%
Rhodium	103-2				111		%
Scandium	45-1				111		%
Scandium	45-2				110		%
Selenium	82-1	97.23	93.98	96.82	96.01	1.85	ppb
Selenium	77-2	104.42	112.11	103.26	106.60	4.51	ppb
Selenium	78-2	98.84	97.10	94.87	96.94	2.05	ppb
Silicon	28-1	1065.57	1161.37	1483.02	1236.65	17.68	ppb
Silver	107-1	51.29	52.46	51.91	51.89	1.13	ppb
Silver	109-1	51.16	51.90	51.68	51.58	0.74	ppb
Sodium	23-2	9858.37	9523.16	9766.72	9716.08	1.78	ppb
Strontium	86-1	148.96	148.68	153.47	150.37	1.79	ppb
Strontium	88-1	150.59	150.54	155.08	152.07	1.71	ppb
Sulfur	34-1	-2618.01	-2611.07	-2788.57	-2672.55		ppb
Terbium	159-1				111		%
Terbium	159-2				113		%
Thallium	203-1	86.72	89.20	87.32	87.75	1.48	ppb
Thallium	205-1	85.75	87.55	86.57	86.63	1.04	ppb
Tin	118-1	82.47	84.34	83.56	83.46	1.12	ppb
Titanium	47-1	65.09	47.20	45.32	52.54	20.77	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	83.99	86.00	84.27	84.75	1.28	ppb
Vanadium	51-2	116.13	114.63	115.99	115.59	0.72	ppb
Yttrium	89-1				115		%
Yttrium	89-2				117		%
Zinc	66-2	1031.18	1021.37	1006.83	1019.80	1.20	ppb
Zirconium	90-1	93.05	93.18	96.26	94.16	1.93	ppb
Zirconium	91-1	94.84	94.53	98.71	96.03	2.42	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49472.01	48946.57	49168.20	49195.60	0.54	ppb
Antimony	121-1	492.63	489.62	485.44	489.23	0.74	ppb
Arsenic	75-2	491.23	482.73	497.90	490.62	1.55	ppb
Barium	135-1	2523.32	2512.96	2457.24	2497.84	1.42	ppb
Barium	137-1	2456.52	2477.41	2470.33	2468.09	0.43	ppb
Beryllium	9-1	508.17	519.48	511.97	513.21	1.12	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	473.08	481.80	459.77	471.55	2.35	ppb
Cadmium	106-1	484.90	473.99	481.25	480.05	1.16	ppb
Cadmium	111-1	475.58	481.44	477.37	478.13	0.63	ppb
Calcium	43-1	241207.54	243047.34	246264.55	243506.48	1.05	ppb
Calcium	44-1	240009.84	245635.60	247146.09	244263.84	1.54	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	486.05	482.85	487.44	485.45	0.49	ppb
Cobalt	59-2	498.47	491.61	500.12	496.74	0.91	ppb
Copper	63-2	4983.86	4986.84	4876.60	4949.10	1.27	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				107		%
Holmium	165-2				106		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	56-2	125177.70	125624.85	123769.50	124857.35	0.78	ppb
Iron	57-2	124227.31	124461.89	122572.07	123753.76	0.83	ppb
Iron	54-2	124440.55	124390.88	124283.12	124371.52	0.06	ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	2544.55	2552.02	2541.35	2545.97	0.22	ppb
Lead	207-1	2563.15	2520.09	2587.48	2556.91	1.33	ppb
Lead	208-1	2515.33	2518.59	2554.81	2529.58	0.87	ppb
Lithium	6-1				98		%
Magnesium	24-2	247680.56	242746.46	245874.26	245433.76	1.02	ppb
Manganese	55-2	4940.54	4983.54	4937.38	4953.82	0.52	ppb
Molybdenum	94-1	4894.39	4999.82	5029.55	4974.59	1.43	ppb
Molybdenum	95-1	4985.84	5045.24	4961.91	4997.66	0.86	ppb
Molybdenum	96-1	4969.60	5008.84	4967.01	4981.82	0.47	ppb
Molybdenum	97-1	4907.60	4967.29	4938.32	4937.74	0.60	ppb
Molybdenum	98-1	4923.13	4984.09	4975.41	4960.87	0.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	492.99	487.94	484.81	488.58	0.84	ppb
Phosphorus	31-2	9907.67	10046.71	10035.17	9996.52	0.77	ppb
Potassium	39-2	122326.17	120800.70	122093.62	121740.16	0.68	ppb
Rhodium	103-1				99		%
Rhodium	103-2				100		%
Scandium	45-1				104		%
Scandium	45-2				102		%
Selenium	82-1	464.29	466.69	461.78	464.26	0.53	ppb
Selenium	77-2	472.33	477.50	485.35	478.39	1.37	ppb
Selenium	78-2	464.24	477.56	478.50	473.43	1.69	ppb
Silicon	28-1	389.65	405.16	428.75	407.86	4.83	ppb
Silver	107-1	485.43	491.34	482.25	486.34	0.95	ppb
Silver	109-1	497.63	493.89	489.62	493.71	0.81	ppb
Sodium	23-2	250592.37	250460.68	248251.06	249768.04	0.53	ppb
Strontium	86-1	480.21	486.43	481.40	482.68	0.68	ppb
Strontium	88-1	493.75	493.25	500.42	495.81	0.81	ppb
Sulfur	34-1	8971.18	8964.02	8857.97	8931.06	0.71	ppb
Terbium	159-1				106		%
Terbium	159-2				106		%
Thallium	203-1	518.66	498.79	516.78	511.41	2.15	ppb
Thallium	205-1	512.93	509.60	517.58	513.37	0.78	ppb
Tin	118-1	495.90	502.44	479.12	492.49	2.44	ppb
Titanium	47-1	4877.40	4980.32	5064.76	4974.16	1.89	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	512.63	506.11	512.98	510.57	0.76	ppb
Vanadium	51-2	490.93	488.39	491.81	490.38	0.36	ppb
Yttrium	89-1				105		%
Yttrium	89-2				106		%
Zinc	66-2	4830.25	4785.97	4656.74	4757.65	1.89	ppb
Zirconium	90-1	489.02	504.56	502.72	498.77	1.70	ppb
Zirconium	91-1	480.59	488.63	487.59	485.60	0.90	ppb

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1.14	0.71	1.10	0.98	23.91	ppb
Antimony	121-1	0.07	0.06	0.10	0.08	26.64	ppb
Arsenic	75-2	0.02	0.06	0.06	0.04	47.68	ppb
Barium	135-1	0.01	0.00	0.03	0.01	102.06	ppb
Barium	137-1	0.03	0.02	0.04	0.03	29.79	ppb
Beryllium	9-1	0.04	0.01	0.02	0.02	56.75	ppb
Bismuth	209-1				106		%
Bismuth	209-2				107		%
Bromine	81-1						cps
Bromine	81-2						cps
Cadmium	108-1	0.11	0.18	0.07	0.12	45.59	ppb
Cadmium	106-1	-1.35	-3.19	-2.63	-2.39		ppb
Cadmium	111-1	-0.10	-0.22	-0.17	-0.16		ppb
Calcium	43-1	-0.05	-0.18	-1.19	-0.47		ppb
Calcium	44-1	1.47	0.27	3.40	1.71	92.41	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.61	-0.56	-0.59	-0.59		ppb
Cobalt	59-2	0.00	0.01	0.01	0.01	37.83	ppb
Copper	63-2	-0.01	0.08	-0.03	0.01	506.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				103		%
Holmium	165-2				105		%
Indium	115-1				104		%
Indium	115-2				106		%
Iron	56-2	-1.87	-2.16	-1.93	-1.99		ppb
Iron	57-2	-4.44	-5.23	-5.79	-5.15		ppb
Iron	54-2	-3.06	-1.50	-3.34	-2.63		ppb
Krypton	83-1						cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	206-1	0.02	0.03	0.02	0.02	37.12	ppb
Lead	207-1	0.03	0.03	0.01	0.02	38.76	ppb
Lead	208-1	0.02	0.03	0.02	0.03	9.07	ppb
Lithium	6-1				97		%
Magnesium	24-2	3.01	3.22	3.47	3.23	7.01	ppb
Manganese	55-2	-5.31	-5.25	-5.25	-5.27		ppb
Molybdenum	94-1	0.13	0.13	0.14	0.14	2.19	ppb
Molybdenum	95-1	0.05	0.03	0.07	0.05	33.56	ppb
Molybdenum	96-1	0.05	0.06	0.08	0.06	23.34	ppb
Molybdenum	97-1	0.05	0.04	0.06	0.05	13.83	ppb
Molybdenum	98-1	0.04	0.04	0.07	0.05	36.66	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.39	-0.33	-0.36	-0.36		ppb
Phosphorus	31-2	-24.85	-23.42	-15.49	-21.25		ppb
Potassium	39-2	-16.61	-15.74	-16.33	-16.23		ppb
Rhodium	103-1				103		%
Rhodium	103-2				106		%
Scandium	45-1				102		%
Scandium	45-2				101		%
Selenium	82-1	0.57	-0.34	-0.38	-0.05		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	2.08	1.62	-0.54	1.05	132.48	ppb
Silicon	28-1	-198.01	-201.62	-202.13	-200.59		ppb
Silver	107-1	0.00	0.00	0.01	0.01	102.59	ppb
Silver	109-1	0.01	0.01	0.01	0.01	27.98	ppb
Sodium	23-2	10.06	9.61	7.68	9.11	13.88	ppb
Strontium	86-1	-0.02	-0.02	0.02	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00	15.91	ppb
Sulfur	34-1	-2482.97	-2510.71	-2439.17	-2477.61		ppb
Terbium	159-1				104		%
Terbium	159-2				106		%
Thallium	203-1	0.03	0.03	0.04	0.03	24.33	ppb
Thallium	205-1	0.02	0.03	0.03	0.03	10.27	ppb
Tin	118-1	-0.03	0.01	-0.01	-0.01		ppb
Titanium	47-1	-0.04	-0.01	0.03	-0.01		ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Uranium	238-1	0.00	0.00	0.00	0.00	10.22	ppb
Vanadium	51-2	0.00	0.01	0.01	0.01	75.77	ppb
Yttrium	89-1				104		%
Yttrium	89-2				107		%
Zinc	66-2	-0.01	0.09	0.04	0.04	125.70	ppb
Zirconium	90-1	0.05	0.05	0.06	0.05	14.04	ppb
Zirconium	91-1	0.01	0.02	0.05	0.03	73.70	ppb

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	273	270	287	277	3.19	cps
Antimony	121-1	23	13	23	20	28.87	cps
Arsenic	75-2	3	0	0	1	173.21	cps
Barium	135-1	17	13	10	13	25.01	cps
Barium	137-1	33	27	33	31	12.36	cps
Beryllium	9-1	20	27	40	29	35.25	cps
Bismuth	209-1	3586698	3534273	3595148	3572040	0.92	cps
Bismuth	209-2	3240345	3220033	3297308	3252562	1.23	cps
Bromine	81-1	26651	27025	26284	26653	1.39	cps
Bromine	81-2	150	200	147	166	18.05	cps
Cadmium	108-1	7	3	0	3	100.05	cps
Cadmium	106-1	1630	1570	1600	1600	1.88	cps
Cadmium	111-1	1153	1107	1123	1128	2.08	cps
Calcium	43-1	227	227	247	233	4.95	cps
Calcium	44-1	6301	6255	6315	6290	0.50	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1673	1807	1763	1748	3.89	cps
Cobalt	59-2	57	60	50	56	9.17	cps
Copper	63-2	1777	1827	1583	1729	7.43	cps
Dysprosium	156-1	3	3	7	4	43.40	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	27	30	43	33	26.45	cps
Erbium	164-2	30	20	27	26	19.92	cps
Gadolinium	160-1	30	17	30	26	30.11	cps
Gadolinium	160-2	267	223	213	234	12.09	cps
Holmium	165-1	5947637	5905508	5931052	5928065	0.36	cps
Holmium	165-2	4503710	4411426	4405688	4440275	1.24	cps
Indium	115-1	4929124	4974633	5026046	4976601	0.97	cps
Indium	115-2	1936629	1861252	1894947	1897609	1.99	cps
Iron	56-2	24507	23886	25144	24512	2.57	cps
Iron	57-2	1387	1243	1283	1305	5.67	cps
Iron	54-2	2580	2530	2454	2521	2.53	cps
Krypton	83-1	360	377	330	356	6.65	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	383	380	440	401	8.41	cps
Lead	207-1	387	337	343	356	7.64	cps
Lead	208-1	1700	1590	1580	1623	4.10	cps
Lithium	6-1	375577	372715	375475	374589	0.43	cps
Magnesium	24-2	193	170	160	174	9.81	cps
Manganese	55-2	8753	9029	9260	9014	2.82	cps
Molybdenum	94-1	147	123	117	129	12.22	cps
Molybdenum	95-1	77	33	30	47	55.79	cps
Molybdenum	96-1	197	130	143	157	22.52	cps
Molybdenum	97-1	100	30	10	47	101.27	cps
Molybdenum	98-1	140	70	77	96	40.43	cps
Neodymium	150-1	7	3	3	4	43.40	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	383	427	437	416	6.82	cps
Phosphorus	31-2	200	253	193	216	15.26	cps
Potassium	39-2	47678	47531	47965	47725	0.46	cps
Rhodium	103-1	4729886	4623932	4637512	4663777	1.24	cps
Rhodium	103-2	2815429	2858256	2887995	2853893	1.28	cps
Scandium	45-1	2758670	2685755	2735855	2726760	1.37	cps
Scandium	45-2	239736	233954	240662	238117	1.53	cps
Selenium	82-1	267	189	212	223	18.09	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	670	650	663	661	1.54	cps
Silicon	28-1	1322892	1328036	1327254	1326061	0.21	cps
Silver	107-1	50	23	43	39	35.69	cps
Silver	109-1	30	17	27	24	28.38	cps
Sodium	23-2	12088	12452	12378	12306	1.56	cps
Strontium	86-1	530	493	563	529	6.62	cps
Strontium	88-1	73	87	77	79	8.80	cps
Sulfur	34-1	132858	134005	132754	133205	0.52	cps
Terbium	159-1	6170498	6127780	6090752	6129677	0.65	cps
Terbium	159-2	4432743	4441906	4379679	4418109	0.76	cps
Thallium	203-1	53	83	83	73	23.62	cps
Thallium	205-1	160	140	163	154	8.17	cps
Tin	118-1	630	617	760	669	11.84	cps
Titanium	47-1	60	60	80	67	17.32	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P7
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:09:51	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	10	13	13	12	15.73	cps
Vanadium	51-2	10	13	3	9	57.30	cps
Yttrium	89-1	7249532	7190078	7261172	7233594	0.53	cps
Yttrium	89-2	2034988	1998609	1955785	1996460	1.99	cps
Zinc	66-2	213	167	217	199	14.06	cps
Zirconium	90-1	257	347	243	282	19.92	cps
Zirconium	91-1	63	63	73	67	8.66	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2200	2360	2387	2316	4.36	cps
Antimony	121-1	9510	9487	9537	9511	0.26	cps
Arsenic	75-2	343	313	350	336	5.82	cps
Barium	135-1	11858	11715	12038	11871	1.37	cps
Barium	137-1	20905	21039	21890	21278	2.51	cps
Beryllium	9-1	763	643	727	711	8.65	cps
Bismuth	209-1	3641933	3530402	3713402	3628579	2.54	cps
Bismuth	209-2	3395811	3259742	3316018	3323857	2.06	cps
Bromine	81-1	27275	27145	27095	27172	0.34	cps
Bromine	81-2	200	167	150	172	14.78	cps
Cadmium	108-1	90	100	123	104	16.38	cps
Cadmium	106-1	1837	1727	1650	1738	5.40	cps
Cadmium	111-1	2640	2422	2542	2535	4.30	cps
Calcium	43-1	6855	7252	7098	7068	2.83	cps
Calcium	44-1	118777	118391	118807	118658	0.20	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5858	5774	5588	5740	2.41	cps
Cobalt	59-2	3337	3400	3637	3458	4.57	cps
Copper	63-2	6588	6345	6325	6419	2.28	cps
Dysprosium	156-1	3	13	3	7	86.65	cps
Dysprosium	156-2	3	0	3	2	86.60	cps
Erbium	164-1	40	37	67	48	34.42	cps
Erbium	164-2	30	17	23	23	28.56	cps
Gadolinium	160-1	23	40	33	32	26.04	cps
Gadolinium	160-2	217	220	273	237	13.44	cps
Holmium	165-1	6107976	5792617	6142766	6014453	3.21	cps
Holmium	165-2	4609014	4472466	4499440	4526973	1.60	cps
Indium	115-1	5129531	4891569	5220619	5080573	3.34	cps
Indium	115-2	1946680	1916263	1958243	1940395	1.12	cps
Iron	56-2	124275	122021	120229	122175	1.66	cps
Iron	57-2	3987	3777	3864	3876	2.72	cps
Iron	54-2	8106	7642	8116	7954	3.40	cps
Krypton	83-1	370	290	333	331	12.09	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	3777	3931	3761	3823	2.45	cps
Lead	207-1	3434	3417	3547	3466	2.04	cps
Lead	208-1	15330	15524	15784	15546	1.46	cps
Lithium	6-1	395244	379275	397743	390754	2.56	cps
Magnesium	24-2	92426	90582	91477	91495	1.01	cps
Manganese	55-2	10934	10734	11067	10912	1.54	cps
Molybdenum	94-1	9920	10784	10347	10350	4.17	cps
Molybdenum	95-1	12172	12622	12599	12464	2.03	cps
Molybdenum	96-1	13763	13850	13650	13754	0.73	cps
Molybdenum	97-1	7769	7475	7755	7667	2.16	cps
Molybdenum	98-1	19353	20067	19854	19758	1.86	cps
Neodymium	150-1	10	10	20	13	43.30	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	1213	1467	1267	1316	10.15	cps
Phosphorus	31-2	413	433	420	422	2.41	cps
Potassium	39-2	167885	167945	166779	167536	0.39	cps
Rhodium	103-1	4820313	4596193	4766117	4727541	2.47	cps
Rhodium	103-2	3002792	2929752	2915996	2949513	1.58	cps
Scandium	45-1	2841703	2687675	2831360	2786913	3.09	cps
Scandium	45-2	246468	243708	244235	244804	0.60	cps
Selenium	82-1	779	787	804	790	1.58	cps
Selenium	77-2	50	73	70	64	19.58	cps
Selenium	78-2	927	753	790	823	11.10	cps
Silicon	28-1	1320409	1294812	1290804	1302008	1.23	cps
Silver	107-1	6752	6555	6568	6625	1.66	cps
Silver	109-1	6365	6171	6391	6309	1.90	cps
Sodium	23-2	156914	155205	157267	156462	0.71	cps
Strontium	86-1	2094	2154	2190	2146	2.27	cps
Strontium	88-1	14431	14494	14701	14542	0.97	cps
Sulfur	34-1	138282	137663	138120	138022	0.23	cps
Terbium	159-1	6294126	5968513	6203545	6155395	2.73	cps
Terbium	159-2	4566923	4344716	4509447	4473695	2.58	cps
Thallium	203-1	4277	4454	4331	4354	2.08	cps
Thallium	205-1	10134	10297	10131	10187	0.94	cps
Tin	118-1	21403	20979	21456	21279	1.23	cps
Titanium	47-1	3004	3210	3067	3094	3.42	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P7
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:16:28	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13123	13280	13574	13326	1.72	cps
Vanadium	51-2	9143	8786	8849	8926	2.13	cps
Yttrium	89-1	7517032	7031248	7379133	7309137	3.43	cps
Yttrium	89-2	2112739	2036364	2099225	2082776	1.96	cps
Zinc	66-2	2387	2397	2364	2382	0.72	cps
Zirconium	90-1	8639	8613	8489	8580	0.93	cps
Zirconium	91-1	1837	2100	2020	1986	6.80	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	101714	102087	100316	101372	0.92	cps
Antimony	121-1	224086	228501	230316	227634	1.41	cps
Arsenic	75-2	14093	13917	14053	14021	0.66	cps
Barium	135-1	284989	288779	293041	288936	1.39	cps
Barium	137-1	497042	504396	507647	503028	1.08	cps
Beryllium	9-1	30580	30480	31312	30791	1.47	cps
Bismuth	209-1	3714900	3761852	3801603	3759452	1.15	cps
Bismuth	209-2	3350794	3431857	3337162	3373271	1.52	cps
Bromine	81-1	26898	26998	27282	27059	0.74	cps
Bromine	81-2	190	193	130	171	20.83	cps
Cadmium	108-1	4848	4881	4734	4821	1.60	cps
Cadmium	106-1	8453	8473	8426	8450	0.28	cps
Cadmium	111-1	67127	69006	69069	68401	1.61	cps
Calcium	43-1	65665	66334	66247	66082	0.55	cps
Calcium	44-1	1065860	1082096	1081551	1076502	0.86	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	98835	98392	98083	98436	0.38	cps
Cobalt	59-2	158754	154588	153981	155774	1.67	cps
Copper	63-2	1080694	1081037	1071136	1077622	0.52	cps
Dysprosium	156-1	17	7	20	14	48.02	cps
Dysprosium	156-2	7	13	0	7	99.98	cps
Erbium	164-1	60	53	40	51	19.92	cps
Erbium	164-2	57	33	40	43	27.74	cps
Gadolinium	160-1	27	20	13	20	33.35	cps
Gadolinium	160-2	257	210	220	229	10.74	cps
Holmium	165-1	6186591	6122082	6164650	6157774	0.53	cps
Holmium	165-2	4617364	4678117	4574110	4623197	1.13	cps
Indium	115-1	5204945	5191095	5199036	5198359	0.13	cps
Indium	115-2	1937791	1927020	1914773	1926528	0.60	cps
Iron	56-2	4646079	4695715	4661337	4667710	0.54	cps
Iron	57-2	118604	119188	116753	118182	1.08	cps
Iron	54-2	265150	266006	260387	263848	1.15	cps
Krypton	83-1	307	320	340	322	5.21	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	834625	845858	859021	846501	1.44	cps
Lead	207-1	729939	741966	746214	739373	1.14	cps
Lead	208-1	3450973	3494796	3521958	3489242	1.03	cps
Lithium	6-1	404278	400870	405534	403561	0.60	cps
Magnesium	24-2	864953	865814	860110	863625	0.36	cps
Manganese	55-2	785757	785038	774803	781866	0.78	cps
Molybdenum	94-1	810654	821524	822789	818322	0.82	cps
Molybdenum	95-1	1156564	1178090	1174738	1169798	0.99	cps
Molybdenum	96-1	1271019	1286254	1286695	1281323	0.70	cps
Molybdenum	97-1	721929	739518	739837	733761	1.40	cps
Molybdenum	98-1	1908710	1923949	1932903	1921854	0.64	cps
Neodymium	150-1	17	20	3	13	66.16	cps
Neodymium	150-2	3	3	17	8	99.04	cps
Nickel	60-2	40484	40612	39823	40306	1.05	cps
Phosphorus	31-2	6251	6125	5948	6108	2.50	cps
Potassium	39-2	630801	633229	629034	631021	0.33	cps
Rhodium	103-1	4868001	4779890	4825893	4824594	0.91	cps
Rhodium	103-2	2938437	2905277	2878485	2907400	1.03	cps
Scandium	45-1	2878868	2834387	2904051	2872436	1.23	cps
Scandium	45-2	242898	245255	241448	243200	0.79	cps
Selenium	82-1	5322	5421	5539	5427	2.01	cps
Selenium	77-2	513	637	580	577	10.71	cps
Selenium	78-2	2410	2524	2457	2464	2.31	cps
Silicon	28-1	1434126	1415044	1423612	1424261	0.67	cps
Silver	107-1	320100	322845	322798	321914	0.49	cps
Silver	109-1	303542	305234	305708	304828	0.37	cps
Sodium	23-2	1473930	1482685	1441464	1466026	1.48	cps
Strontium	86-1	76782	78018	77881	77560	0.87	cps
Strontium	88-1	669535	678959	680711	676402	0.89	cps
Sulfur	34-1	158021	158977	158337	158445	0.31	cps
Terbium	159-1	6332825	6362004	6351470	6348767	0.23	cps
Terbium	159-2	4626596	4567881	4468513	4554330	1.75	cps
Thallium	203-1	206502	209950	212393	209615	1.41	cps
Thallium	205-1	474562	486193	489873	483543	1.65	cps
Tin	118-1	198660	202047	202388	201031	1.03	cps
Titanium	47-1	292653	296279	294018	294316	0.62	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P7
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:19:46	DataFile Name :	007CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	628264	643675	650460	640799	1.77	cps
Vanadium	51-2	83308	83737	81736	82927	1.27	cps
Yttrium	89-1	7585255	7478347	7509761	7524454	0.73	cps
Yttrium	89-2	2067860	2118686	2067386	2084644	1.41	cps
Zinc	66-2	209116	207756	208381	208418	0.33	cps
Zirconium	90-1	395537	403219	404593	401116	1.22	cps
Zirconium	91-1	87636	88602	89185	88474	0.88	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	245454	246992	244517	245654	0.51	cps
Antimony	121-1	553907	563240	566412	561186	1.16	cps
Arsenic	75-2	33912	34076	33855	33948	0.34	cps
Barium	135-1	705733	708366	715257	709785	0.69	cps
Barium	137-1	1223149	1240266	1242835	1235417	0.87	cps
Beryllium	9-1	75338	73610	74056	74335	1.21	cps
Bismuth	209-1	3569404	3639769	3665222	3624798	1.37	cps
Bismuth	209-2	3357454	3356809	3347423	3353895	0.17	cps
Bromine	81-1	25392	25532	25739	25554	0.68	cps
Bromine	81-2	183	173	177	178	2.86	cps
Cadmium	108-1	11855	12219	11591	11888	2.65	cps
Cadmium	106-1	17871	18222	17721	17938	1.43	cps
Cadmium	111-1	163164	165948	164766	164626	0.85	cps
Calcium	43-1	159584	159876	161729	160396	0.73	cps
Calcium	44-1	2598831	2562616	2601519	2587655	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	241162	239958	239375	240165	0.38	cps
Cobalt	59-2	378270	379113	374835	377406	0.60	cps
Copper	63-2	2724870	2685125	2697619	2702538	0.75	cps
Dysprosium	156-1	10	10	13	11	17.30	cps
Dysprosium	156-2	43	37	30	37	18.18	cps
Erbium	164-1	33	60	70	54	34.82	cps
Erbium	164-2	63	27	33	41	47.50	cps
Gadolinium	160-1	33	13	27	24	41.66	cps
Gadolinium	160-2	227	237	200	221	8.57	cps
Holmium	165-1	6006408	5965022	5960619	5977350	0.42	cps
Holmium	165-2	4603314	4565436	4677831	4615527	1.24	cps
Indium	115-1	5030635	4973975	5021832	5008814	0.61	cps
Indium	115-2	1904457	1909321	1872847	1895542	1.04	cps
Iron	56-2	11401948	11599481	11552896	11518108	0.90	cps
Iron	57-2	287672	286764	288281	287572	0.27	cps
Iron	54-2	630372	627931	637066	631789	0.75	cps
Krypton	83-1	287	367	323	326	12.30	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	2181980	2224244	2218805	2208343	1.04	cps
Lead	207-1	1950923	1952519	1954517	1952653	0.09	cps
Lead	208-1	8874581	8889030	8936934	8900181	0.37	cps
Lithium	6-1	392986	385591	391073	389883	0.98	cps
Magnesium	24-2	2239342	2206432	2229049	2224941	0.76	cps
Manganese	55-2	1953120	1915124	1952160	1940135	1.12	cps
Molybdenum	94-1	2039749	2074067	2039339	2051051	0.97	cps
Molybdenum	95-1	2918371	2996862	2964918	2960050	1.33	cps
Molybdenum	96-1	3198321	3249395	3232294	3226670	0.81	cps
Molybdenum	97-1	1793715	1832350	1860863	1828976	1.84	cps
Molybdenum	98-1	4713419	4844036	4726188	4761215	1.51	cps
Neodymium	150-1	57	20	30	36	53.31	cps
Neodymium	150-2	10	13	10	11	17.30	cps
Nickel	60-2	96495	97844	96253	96864	0.88	cps
Phosphorus	31-2	14610	14550	14554	14571	0.23	cps
Potassium	39-2	1448494	1428320	1470343	1449052	1.45	cps
Rhodium	103-1	4605913	4684375	4602755	4631014	1.00	cps
Rhodium	103-2	2805656	2859624	2913996	2859759	1.89	cps
Scandium	45-1	2736794	2668252	2730824	2711957	1.40	cps
Scandium	45-2	236379	233678	233493	234517	0.69	cps
Selenium	82-1	12730	12786	12778	12765	0.24	cps
Selenium	77-2	1393	1520	1473	1462	4.38	cps
Selenium	78-2	5144	5511	5238	5298	3.60	cps
Silicon	28-1	1570910	1564392	1569066	1568122	0.21	cps
Silver	107-1	777797	789052	776449	781099	0.89	cps
Silver	109-1	737117	748484	740436	742012	0.79	cps
Sodium	23-2	3592841	3518739	3522023	3544534	1.18	cps
Strontium	86-1	188183	190378	190824	189795	0.74	cps
Strontium	88-1	1703515	1703342	1714759	1707205	0.38	cps
Sulfur	34-1	179747	178662	176223	178210	1.01	cps
Terbium	159-1	6144473	6236837	6188448	6189919	0.75	cps
Terbium	159-2	4509315	4468532	4563712	4513853	1.06	cps
Thallium	203-1	512659	517135	519667	516487	0.69	cps
Thallium	205-1	1195917	1201897	1217375	1205063	0.92	cps
Tin	118-1	494008	495292	498084	495795	0.42	cps
Titanium	47-1	707975	715154	714383	712504	0.55	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P7
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:23:02	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1589163	1605688	1611314	1602055	0.72	cps
Vanadium	51-2	202213	202844	199879	201646	0.77	cps
Yttrium	89-1	7155062	7273121	7258563	7228915	0.89	cps
Yttrium	89-2	2040864	2024524	2026913	2030767	0.43	cps
Zinc	66-2	507672	510952	512507	510377	0.48	cps
Zirconium	90-1	959173	984790	976354	973439	1.34	cps
Zirconium	91-1	215575	219212	218872	217886	0.92	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	465490	456986	460189	460888	0.93	cps
Antimony	121-1	1059160	1089589	1079418	1076056	1.44	cps
Arsenic	75-2	65356	63890	64694	64647	1.14	cps
Barium	135-1	1341508	1372130	1369409	1361016	1.25	cps
Barium	137-1	2490581	2521688	2491539	2501269	0.71	cps
Beryllium	9-1	141896	143439	144806	143380	1.02	cps
Bismuth	209-1	3625097	3705015	3670696	3666936	1.09	cps
Bismuth	209-2	3330045	3322011	3262968	3305008	1.11	cps
Bromine	81-1	24524	24784	24217	24508	1.16	cps
Bromine	81-2	137	187	203	176	19.76	cps
Cadmium	108-1	22718	23058	22294	22690	1.69	cps
Cadmium	106-1	31875	32817	33188	32627	2.07	cps
Cadmium	111-1	306000	313376	315991	311789	1.66	cps
Calcium	43-1	297893	305904	300425	301408	1.36	cps
Calcium	44-1	4752411	4923126	4909496	4861678	1.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	451730	448065	441965	447253	1.10	cps
Cobalt	59-2	710738	710422	714290	711816	0.30	cps
Copper	63-2	5089516	5112776	5011717	5071336	1.04	cps
Dysprosium	156-1	17	17	43	26	60.23	cps
Dysprosium	156-2	60	80	43	61	30.04	cps
Erbium	164-1	60	57	60	59	3.26	cps
Erbium	164-2	33	60	43	46	29.58	cps
Gadolinium	160-1	13	37	23	24	47.91	cps
Gadolinium	160-2	247	160	247	218	22.98	cps
Holmium	165-1	5967748	5931910	6014128	5971262	0.69	cps
Holmium	165-2	4535869	4607489	4536155	4559838	0.91	cps
Indium	115-1	4836629	4911740	4771538	4839969	1.45	cps
Indium	115-2	1882858	1818519	1793046	1831474	2.53	cps
Iron	56-2	21512221	21653233	21724398	21629951	0.50	cps
Iron	57-2	542798	544626	539918	542447	0.44	cps
Iron	54-2	1201411	1195478	1209264	1202051	0.58	cps
Krypton	83-1	283	330	300	304	7.77	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4257199	4357550	4372277	4329008	1.45	cps
Lead	207-1	3779708	3927694	3950382	3885928	2.39	cps
Lead	208-1	17134380	17606438	17835718	17525512	2.04	cps
Lithium	6-1	387890	392704	389532	390042	0.63	cps
Magnesium	24-2	4238074	4087383	4186243	4170567	1.84	cps
Manganese	55-2	3659010	3636693	3724509	3673404	1.24	cps
Molybdenum	94-1	3847926	3922771	3935929	3902209	1.22	cps
Molybdenum	95-1	5548293	5704277	5671497	5641356	1.46	cps
Molybdenum	96-1	6121610	6226844	6196006	6181487	0.88	cps
Molybdenum	97-1	3440365	3519028	3520226	3493207	1.31	cps
Molybdenum	98-1	8984813	9127690	9024139	9045547	0.82	cps
Neodymium	150-1	77	53	57	62	20.29	cps
Neodymium	150-2	23	27	13	21	32.88	cps
Nickel	60-2	182797	184393	181312	182834	0.84	cps
Phosphorus	31-2	27902	26703	26510	27038	2.79	cps
Potassium	39-2	2715515	2642281	2645466	2667754	1.55	cps
Rhodium	103-1	4530294	4453289	4387917	4457167	1.60	cps
Rhodium	103-2	2817902	2764145	2695930	2759325	2.22	cps
Scandium	45-1	2667551	2618194	2641877	2642541	0.93	cps
Scandium	45-2	226608	225630	224033	225424	0.58	cps
Selenium	82-1	23708	24246	24534	24163	1.74	cps
Selenium	77-2	2587	2560	2707	2618	2.98	cps
Selenium	78-2	9797	9310	9183	9430	3.44	cps
Silicon	28-1	1784022	1797460	1822631	1801371	1.09	cps
Silver	107-1	1467654	1485632	1488437	1480574	0.76	cps
Silver	109-1	1392818	1413890	1406242	1404317	0.76	cps
Sodium	23-2	6751764	6643217	6659578	6684853	0.88	cps
Strontium	86-1	356480	363767	362604	360950	1.08	cps
Strontium	88-1	3243127	3308164	3294878	3282057	1.05	cps
Sulfur	34-1	209678	208573	209172	209141	0.26	cps
Terbium	159-1	6086358	6183135	6065159	6111550	1.03	cps
Terbium	159-2	4517821	4431841	4424838	4458167	1.16	cps
Thallium	203-1	997806	1028652	1032022	1019493	1.85	cps
Thallium	205-1	2481428	2525010	2550265	2518901	1.38	cps
Tin	118-1	923375	952374	956959	944236	1.93	cps
Titanium	47-1	1364345	1379129	1385540	1376338	0.79	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P7
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:26:05	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	3342112	3468468	3502596	3437725	2.46	cps
Vanadium	51-2	384484	379624	380690	381599	0.67	cps
Yttrium	89-1	7164158	7015729	6941114	7040334	1.61	cps
Yttrium	89-2	1947828	1964663	1885962	1932818	2.14	cps
Zinc	66-2	968294	963380	961201	964291	0.38	cps
Zirconium	90-1	1895273	1928437	1943575	1922428	1.29	cps
Zirconium	91-1	409981	424671	417584	417412	1.76	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	904019	887947	887521	893162	1.05	cps
Antimony	121-1	2138499	2167576	2199515	2168530	1.41	cps
Arsenic	75-2	126605	125623	128699	126975	1.24	cps
Barium	135-1	2779651	2851287	2841153	2824030	1.37	cps
Barium	137-1	4821251	4822688	4869985	4837975	0.57	cps
Beryllium	9-1	273896	272601	273588	273362	0.25	cps
Bismuth	209-1	3523700	3535459	3594149	3551103	1.06	cps
Bismuth	209-2	3255018	3299347	3361700	3305355	1.62	cps
Bromine	81-1	23803	25061	24831	24565	2.73	cps
Bromine	81-2	170	153	217	180	18.24	cps
Cadmium	108-1	42335	43890	43809	43345	2.02	cps
Cadmium	106-1	61891	62192	62216	62100	0.29	cps
Cadmium	111-1	593332	601872	602186	599130	0.84	cps
Calcium	43-1	570454	582406	583930	578930	1.27	cps
Calcium	44-1	9310051	9515454	9399582	9408362	1.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	884300	881043	887647	884330	0.37	cps
Cobalt	59-2	1432741	1411616	1433596	1425984	0.87	cps
Copper	63-2	9962119	9909691	9983917	9951909	0.38	cps
Dysprosium	156-1	53	23	30	36	44.31	cps
Dysprosium	156-2	180	117	123	140	24.86	cps
Erbium	164-1	53	73	70	66	16.35	cps
Erbium	164-2	60	63	57	60	5.55	cps
Gadolinium	160-1	50	23	60	44	42.65	cps
Gadolinium	160-2	230	287	223	247	14.11	cps
Holmium	165-1	5799270	5823613	5788366	5803749	0.31	cps
Holmium	165-2	4653431	4521400	4563358	4579396	1.47	cps
Indium	115-1	4670661	4604825	4677062	4650849	0.86	cps
Indium	115-2	1797710	1818137	1835701	1817183	1.05	cps
Iron	56-2	42654423	42645006	43246631	42848687	0.80	cps
Iron	57-2	1065188	1075956	1084735	1075293	0.91	cps
Iron	54-2	2343015	2336352	2343000	2340789	0.16	cps
Krypton	83-1	303	313	283	300	5.09	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8433224	8669290	8626092	8576202	1.47	cps
Lead	207-1	7598369	7630376	7704968	7644571	0.72	cps
Lead	208-1	34118166	34765834	35058277	34647426	1.39	cps
Lithium	6-1	374374	371362	372522	372752	0.41	cps
Magnesium	24-2	8331209	7911995	8172268	8138491	2.60	cps
Manganese	55-2	7206168	7236550	7346514	7263077	1.02	cps
Molybdenum	94-1	7494463	7653573	7719701	7622579	1.52	cps
Molybdenum	95-1	10736253	11075936	11143676	10985288	1.99	cps
Molybdenum	96-1	11864415	12045801	11869963	11926726	0.86	cps
Molybdenum	97-1	6720484	6872180	6967977	6853547	1.82	cps
Molybdenum	98-1	17440829	17859846	17898203	17732959	1.43	cps
Neodymium	150-1	97	143	143	128	21.09	cps
Neodymium	150-2	57	23	20	33	60.84	cps
Nickel	60-2	356382	354460	362478	357774	1.17	cps
Phosphorus	31-2	53530	52543	53570	53215	1.09	cps
Potassium	39-2	5288529	5242505	5206090	5245708	0.79	cps
Rhodium	103-1	4245644	4227205	4320667	4264505	1.16	cps
Rhodium	103-2	2761372	2751916	2737213	2750167	0.44	cps
Scandium	45-1	2447041	2505030	2522646	2491572	1.59	cps
Scandium	45-2	224608	222249	220931	222596	0.84	cps
Selenium	82-1	46014	45982	45948	45981	0.07	cps
Selenium	77-2	5024	5164	5281	5157	2.49	cps
Selenium	78-2	17824	18231	17721	17925	1.51	cps
Silicon	28-1	2263707	2378215	2442396	2361439	3.83	cps
Silver	107-1	2870173	2929851	2960050	2920025	1.57	cps
Silver	109-1	2782700	2760838	2856583	2800040	1.79	cps
Sodium	23-2	12947349	12876080	13056263	12959897	0.70	cps
Strontium	86-1	676898	692984	705087	691656	2.04	cps
Strontium	88-1	6259558	6333636	6427576	6340257	1.33	cps
Sulfur	34-1	271181	273939	271082	272067	0.60	cps
Terbium	159-1	5878403	5904953	5884712	5889356	0.24	cps
Terbium	159-2	4514685	4538945	4472287	4508639	0.75	cps
Thallium	203-1	2083109	2123051	2140222	2115460	1.39	cps
Thallium	205-1	5016711	5120103	5007470	5048094	1.24	cps
Tin	118-1	1881602	1928518	1934739	1914953	1.52	cps
Titanium	47-1	2659461	2704119	2699372	2687651	0.91	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P7
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:29:05	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6798286	6879000	6845900	6841062	0.59	cps
Vanadium	51-2	749961	753068	759467	754165	0.64	cps
Yttrium	89-1	6761711	6728406	6859441	6783186	1.00	cps
Yttrium	89-2	1974366	1920158	1936824	1943783	1.43	cps
Zinc	66-2	1933884	1936176	1917403	1929154	0.53	cps
Zirconium	90-1	3709588	3732056	3870652	3770765	2.31	cps
Zirconium	91-1	799788	818967	814893	811216	1.25	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1891540	1904232	1963307	1919693	2.00	cps
Antimony	121-1	4376540	4443210	4540502	4453417	1.85	cps
Arsenic	75-2	255460	256851	259007	257106	0.70	cps
Barium	135-1	5663126	5730064	5935724	5776305	2.46	cps
Barium	137-1	9805693	9943530	10145487	9964903	1.72	cps
Beryllium	9-1	526084	529399	533118	529534	0.66	cps
Bismuth	209-1	3532962	3528238	3572879	3544693	0.69	cps
Bismuth	209-2	3267151	3299597	3206588	3257779	1.45	cps
Bromine	81-1	25556	26597	25873	26009	2.05	cps
Bromine	81-2	167	197	177	180	8.49	cps
Cadmium	108-1	86258	86754	88605	87206	1.42	cps
Cadmium	106-1	122082	122371	124313	122922	0.99	cps
Cadmium	111-1	1189330	1208074	1220500	1205968	1.30	cps
Calcium	43-1	1155317	1168127	1187895	1170446	1.40	cps
Calcium	44-1	18637028	19036554	19090964	18921515	1.31	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1807768	1878753	1822551	1836357	2.04	cps
Cobalt	59-2	2938795	2911313	2952256	2934121	0.71	cps
Copper	63-2	20009704	20121792	20098862	20076786	0.29	cps
Dysprosium	156-1	60	57	70	62	11.15	cps
Dysprosium	156-2	237	273	287	266	9.75	cps
Erbium	164-1	80	100	90	90	11.11	cps
Erbium	164-2	83	47	47	59	35.94	cps
Gadolinium	160-1	47	57	40	48	17.56	cps
Gadolinium	160-2	217	217	273	236	13.89	cps
Holmium	165-1	5831753	5970188	5889304	5897082	1.18	cps
Holmium	165-2	4615343	4585738	4641497	4614193	0.60	cps
Indium	115-1	4632670	4734174	4809401	4725415	1.88	cps
Indium	115-2	1792406	1848805	1834186	1825132	1.60	cps
Iron	56-2	86637312	86075239	86948069	86553540	0.51	cps
Iron	57-2	2111768	2141884	2143724	2132458	0.84	cps
Iron	54-2	4783332	4809073	4849767	4814057	0.70	cps
Krypton	83-1	353	370	313	346	8.43	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	17047972	17317753	17614022	17326583	1.63	cps
Lead	207-1	15216341	15312824	15762806	15430657	1.89	cps
Lead	208-1	68834122	69851330	71329240	70004897	1.79	cps
Lithium	6-1	364212	365308	367117	365546	0.40	cps
Magnesium	24-2	16590365	16412815	16455966	16486382	0.56	cps
Manganese	55-2	14838744	14836840	14808997	14828194	0.11	cps
Molybdenum	94-1	15426474	15650341	16060253	15712356	2.05	cps
Molybdenum	95-1	22220726	22591386	22744075	22518729	1.20	cps
Molybdenum	96-1	24102810	24563692	25031057	24565853	1.89	cps
Molybdenum	97-1	13574972	13933870	14169070	13892637	2.15	cps
Molybdenum	98-1	35101133	35988012	36597532	35895559	2.10	cps
Neodymium	150-1	253	280	277	270	5.38	cps
Neodymium	150-2	53	73	57	61	17.53	cps
Nickel	60-2	724338	726468	722685	724497	0.26	cps
Phosphorus	31-2	107666	108667	106091	107475	1.21	cps
Potassium	39-2	10841033	10755584	10712987	10769868	0.61	cps
Rhodium	103-1	4274664	4297490	4327053	4299736	0.61	cps
Rhodium	103-2	2762022	2776409	2754811	2764414	0.40	cps
Scandium	45-1	2515709	2534404	2547381	2532498	0.63	cps
Scandium	45-2	226012	227774	229407	227731	0.75	cps
Selenium	82-1	88413	90478	91408	90100	1.70	cps
Selenium	77-2	10247	9967	10294	10169	1.74	cps
Selenium	78-2	34661	35142	34834	34879	0.70	cps
Silicon	28-1	3621318	3747292	3921141	3763250	4.00	cps
Silver	107-1	5866741	5961169	6021032	5949647	1.31	cps
Silver	109-1	5590089	5613836	5654011	5619312	0.58	cps
Sodium	23-2	26311647	26187838	26175920	26225135	0.29	cps
Strontium	86-1	1399961	1499475	1487366	1462267	3.71	cps
Strontium	88-1	12836951	12983598	13173239	12997929	1.30	cps
Sulfur	34-1	425569	433255	434207	431011	1.10	cps
Terbium	159-1	6092686	6064933	6017108	6058242	0.63	cps
Terbium	159-2	4567374	4521915	4576086	4555125	0.64	cps
Thallium	203-1	4266820	4348196	4460745	4358587	2.23	cps
Thallium	205-1	10016846	10156804	10228659	10134103	1.06	cps
Tin	118-1	3842306	3986103	3919418	3915942	1.84	cps
Titanium	47-1	5446519	5421924	5534956	5467800	1.09	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P7
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:31:55	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13582468	13859932	13852057	13764819	1.15	cps
Vanadium	51-2	1564524	1589381	1624608	1592838	1.90	cps
Yttrium	89-1	6928757	6853768	6998742	6927089	1.05	cps
Yttrium	89-2	1991681	1960301	2018285	1990089	1.46	cps
Zinc	66-2	3830419	3799297	3807125	3812280	0.42	cps
Zirconium	90-1	7559091	7679061	7725458	7654537	1.12	cps
Zirconium	91-1	1657830	1716012	1724688	1699510	2.14	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	11323884	11184722	11326104	11278237	0.72	cps
Antimony	121-1	2570	2887	2854	2770	6.28	cps
Arsenic	75-2	127	187	130	148	22.82	cps
Barium	135-1	2537	2607	2624	2589	1.78	cps
Barium	137-1	4487	4744	4444	4559	3.56	cps
Beryllium	9-1	97	57	107	87	30.53	cps
Bismuth	209-1	3704869	3606574	3599727	3637056	1.62	cps
Bismuth	209-2	3268941	3271522	3250855	3263772	0.35	cps
Bromine	81-1	28227	29510	29423	29053	2.47	cps
Bromine	81-2	140	190	193	174	17.13	cps
Cadmium	108-1	37	43	60	47	25.75	cps
Cadmium	106-1	1800	1803	1743	1782	1.89	cps
Cadmium	111-1	1434	1402	1408	1415	1.21	cps
Calcium	43-1	6797293	6852689	6803250	6817744	0.45	cps
Calcium	44-1	109453238	111563945	111753698	110923627	1.15	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	19876	19573	19346	19598	1.36	cps
Cobalt	59-2	8913	8599	8666	8726	1.89	cps
Copper	63-2	7475	7405	7755	7545	2.46	cps
Dysprosium	156-1	123	193	180	166	22.45	cps
Dysprosium	156-2	160	167	83	137	33.89	cps
Erbium	164-1	200	283	270	251	17.83	cps
Erbium	164-2	187	210	223	207	8.98	cps
Gadolinium	160-1	170	167	190	176	7.19	cps
Gadolinium	160-2	360	413	353	376	8.76	cps
Holmium	165-1	6615604	6551324	6478923	6548617	1.04	cps
Holmium	165-2	4958153	4954721	4846043	4919639	1.30	cps
Indium	115-1	5311154	5332070	5216289	5286504	1.17	cps
Indium	115-2	2055118	2018820	2000318	2024752	1.38	cps
Iron	56-2	478894433	479631526	480158140	479561366	0.13	cps
Iron	57-2	12035227	11867243	12022500	11974990	0.78	cps
Iron	54-2	26634769	26251385	26366350	26417501	0.74	cps
Krypton	83-1	403	353	357	371	7.53	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	20202	20228	19911	20114	0.87	cps
Lead	207-1	17561	17281	17618	17487	1.03	cps
Lead	208-1	79440	80193	79758	79797	0.47	cps
Lithium	6-1	393095	398481	393965	395181	0.73	cps
Magnesium	24-2	96760445	93913365	95195772	95289861	1.50	cps
Manganese	55-2	9787	10073	9867	9909	1.49	cps
Molybdenum	94-1	4294	4011	4187	4164	3.44	cps
Molybdenum	95-1	3227	3037	3387	3217	5.45	cps
Molybdenum	96-1	16623	16730	16753	16702	0.42	cps
Molybdenum	97-1	2154	2404	2397	2318	6.15	cps
Molybdenum	98-1	5004	5058	5078	5046	0.75	cps
Neodymium	150-1	77	150	117	114	32.08	cps
Neodymium	150-2	67	63	87	72	17.48	cps
Nickel	60-2	4624	4661	4811	4699	2.11	cps
Phosphorus	31-2	243	297	243	261	11.79	cps
Potassium	39-2	62854762	61930452	63172951	62652722	1.03	cps
Rhodium	103-1	4695989	4642986	4686305	4675093	0.60	cps
Rhodium	103-2	2900083	2904347	2895241	2899890	0.16	cps
Scandium	45-1	2913637	3011917	2973855	2966469	1.67	cps
Scandium	45-2	262052	255224	260968	259415	1.41	cps
Selenium	82-1	404	445	414	421	5.14	cps
Selenium	77-2	7	0	0	2	173.21	cps
Selenium	78-2	653	670	650	658	1.63	cps
Silicon	28-1	1200770	1249483	1272750	1241001	2.96	cps
Silver	107-1	443	450	423	439	3.16	cps
Silver	109-1	363	330	443	379	15.37	cps
Sodium	23-2	150645791	150236484	150632944	150505073	0.15	cps
Strontium	86-1	6081	6088	6005	6058	0.76	cps
Strontium	88-1	48322	48904	49513	48913	1.22	cps
Sulfur	34-1	110335	117316	122832	116828	5.36	cps
Terbium	159-1	6837438	6808634	6775098	6807057	0.46	cps
Terbium	159-2	4877739	4795815	4923198	4865584	1.33	cps
Thallium	203-1	413	353	387	384	7.82	cps
Thallium	205-1	1020	960	933	971	4.57	cps
Tin	118-1	1310	1430	1277	1339	6.02	cps
Titanium	47-1	433	427	290	383	21.10	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P7
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:34:43	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	447	487	493	476	5.31	cps
Vanadium	51-2	460	520	470	483	6.65	cps
Yttrium	89-1	7855526	8016671	7990278	7954159	1.09	cps
Yttrium	89-2	2193956	2237808	2244345	2225370	1.23	cps
Zinc	66-2	24123	24500	24804	24476	1.39	cps
Zirconium	90-1	4367	4134	4227	4243	2.77	cps
Zirconium	91-1	860	993	943	932	7.23	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	48025	47768	47864	47886	0.27	cps
Antimony	121-1	879651	891558	890799	887336	0.75	cps
Arsenic	75-2	54747	54670	56129	55182	1.49	cps
Barium	135-1	116025	118199	117799	117341	0.99	cps
Barium	137-1	198311	204854	206369	203178	2.11	cps
Beryllium	9-1	57961	57860	58209	58010	0.31	cps
Bismuth	209-1	3667907	3693235	3673713	3678285	0.36	cps
Bismuth	209-2	3339285	3392481	3413959	3381908	1.14	cps
Bromine	81-1	28020	27960	27456	27812	1.11	cps
Bromine	81-2	147	173	163	161	8.36	cps
Cadmium	108-1	9133	8883	8889	8968	1.59	cps
Cadmium	106-1	13423	13610	13523	13519	0.69	cps
Cadmium	111-1	134360	135705	135185	135083	0.50	cps
Calcium	43-1	24687	25018	25271	24992	1.17	cps
Calcium	44-1	413457	414606	411738	413267	0.35	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	196294	192743	195815	194951	0.99	cps
Cobalt	59-2	309119	308024	313743	310295	0.98	cps
Copper	63-2	219568	217492	219816	218959	0.58	cps
Dysprosium	156-1	7	10	7	8	24.71	cps
Dysprosium	156-2	17	7	10	11	45.82	cps
Erbium	164-1	40	43	40	41	4.68	cps
Erbium	164-2	27	47	33	36	28.64	cps
Gadolinium	160-1	23	30	23	26	15.07	cps
Gadolinium	160-2	207	230	283	240	16.38	cps
Holmium	165-1	6049414	6125494	6176831	6117247	1.05	cps
Holmium	165-2	4672627	4604210	4660236	4645691	0.78	cps
Indium	115-1	5160439	5224950	5192593	5192661	0.62	cps
Indium	115-2	1996140	1922154	2000301	1972865	2.23	cps
Iron	56-2	3598721	3651393	3670254	3640123	1.02	cps
Iron	57-2	91171	91201	91329	91234	0.09	cps
Iron	54-2	208600	205636	208953	207730	0.88	cps
Krypton	83-1	360	343	293	332	10.44	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	705551	717676	714167	712465	0.88	cps
Lead	207-1	601109	611692	610123	607642	0.94	cps
Lead	208-1	2746415	2827075	2804245	2792578	1.49	cps
Lithium	6-1	373827	369970	370555	371451	0.56	cps
Magnesium	24-2	209488	209641	210755	209961	0.33	cps
Manganese	55-2	161948	159756	162726	161477	0.95	cps
Molybdenum	94-1	290	293	290	291	0.66	cps
Molybdenum	95-1	163	137	133	144	11.38	cps
Molybdenum	96-1	370	330	333	344	6.44	cps
Molybdenum	97-1	83	87	63	78	16.23	cps
Molybdenum	98-1	233	230	257	240	6.05	cps
Neodymium	150-1	10	10	17	12	31.50	cps
Neodymium	150-2	7	0	0	2	173.21	cps
Nickel	60-2	79617	79989	80615	80074	0.63	cps
Phosphorus	31-2	187	217	247	217	13.85	cps
Potassium	39-2	491627	489969	492087	491228	0.23	cps
Rhodium	103-1	4742291	4752870	4736167	4743776	0.18	cps
Rhodium	103-2	2979667	2914260	2985036	2959654	1.33	cps
Scandium	45-1	2769475	2848009	2769937	2795807	1.62	cps
Scandium	45-2	243707	241301	245116	243375	0.79	cps
Selenium	82-1	21572	21606	21562	21580	0.11	cps
Selenium	77-2	2424	2237	2594	2418	7.38	cps
Selenium	78-2	8759	8783	8686	8743	0.58	cps
Silicon	28-1	1253932	1234793	1237303	1242009	0.84	cps
Silver	107-1	308892	309232	309232	309119	0.06	cps
Silver	109-1	286746	295347	295717	292603	1.73	cps
Sodium	23-2	531380	530491	532150	531340	0.16	cps
Strontium	86-1	947	1060	883	963	9.29	cps
Strontium	88-1	3217	3437	3380	3345	3.42	cps
Sulfur	34-1	117201	117635	116053	116963	0.70	cps
Terbium	159-1	6175680	6275968	6370116	6273921	1.55	cps
Terbium	159-2	4629357	4604702	4625995	4620018	0.29	cps
Thallium	203-1	817308	845493	836909	833237	1.73	cps
Thallium	205-1	2034369	2084620	2115609	2078199	1.97	cps
Tin	118-1	730	810	813	784	6.01	cps
Titanium	47-1	70	60	57	62	11.15	cps

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Inst Id :P7
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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P7
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:48:13	DataFile Name :	014ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43	30	37	37	18.18	cps
Vanadium	51-2	162926	164173	161313	162804	0.88	cps
Yttrium	89-1	7416481	7520716	7309083	7415427	1.43	cps
Yttrium	89-2	2118624	2086151	2138121	2114299	1.24	cps
Zinc	66-2	82996	81334	83378	82569	1.32	cps
Zirconium	90-1	560	630	660	617	8.32	cps
Zirconium	91-1	173	270	197	213	23.65	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2197	2360	2244	2267	3.71	cps
Antimony	121-1	9263	9860	9887	9670	3.65	cps
Arsenic	75-2	320	250	340	303	15.58	cps
Barium	135-1	11782	12829	13039	12550	5.37	cps
Barium	137-1	20615	21944	22354	21638	4.20	cps
Beryllium	9-1	720	663	643	676	5.89	cps
Bismuth	209-1	4022481	3903603	3851677	3925920	2.23	cps
Bismuth	209-2	3486156	3581579	3473627	3513787	1.68	cps
Bromine	81-1	29780	29653	29002	29478	1.42	cps
Bromine	81-2	227	203	153	194	19.27	cps
Cadmium	108-1	147	93	110	117	23.39	cps
Cadmium	106-1	1960	1637	1673	1757	10.08	cps
Cadmium	111-1	2636	2727	2611	2658	2.30	cps
Calcium	43-1	7008	7332	7499	7280	3.42	cps
Calcium	44-1	116782	122869	123144	120932	2.97	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5684	5418	5384	5495	2.99	cps
Cobalt	59-2	3677	3600	3817	3698	2.97	cps
Copper	63-2	6645	6735	6648	6676	0.76	cps
Dysprosium	156-1	10	7	0	6	91.64	cps
Dysprosium	156-2	7	10	3	7	50.03	cps
Erbium	164-1	30	33	37	33	10.01	cps
Erbium	164-2	47	70	27	48	45.39	cps
Gadolinium	160-1	20	27	13	20	33.35	cps
Gadolinium	160-2	203	297	247	249	18.76	cps
Holmium	165-1	6601307	6289551	6218808	6369889	3.19	cps
Holmium	165-2	4810415	4813503	4757267	4793728	0.66	cps
Indium	115-1	5683363	5402906	5360677	5482316	3.20	cps
Indium	115-2	2079730	2042225	2019275	2047076	1.49	cps
Iron	56-2	125932	123391	124947	124757	1.03	cps
Iron	57-2	3871	3724	3987	3861	3.42	cps
Iron	54-2	8309	8272	8019	8200	1.93	cps
Krypton	83-1	650	290	350	430	44.86	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4154	3851	4131	4045	4.17	cps
Lead	207-1	3554	3591	3657	3601	1.46	cps
Lead	208-1	16417	16074	16417	16303	1.22	cps
Lithium	6-1	430383	400276	402108	410923	4.11	cps
Magnesium	24-2	94119	93110	93355	93528	0.56	cps
Manganese	55-2	11311	11645	10847	11268	3.55	cps
Molybdenum	94-1	10564	10981	10304	10616	3.22	cps
Molybdenum	95-1	11872	13343	12806	12673	5.87	cps
Molybdenum	96-1	13843	14748	14574	14388	3.34	cps
Molybdenum	97-1	7582	8126	8306	8004	4.71	cps
Molybdenum	98-1	19787	20491	20598	20292	2.17	cps
Neodymium	150-1	3	3	0	2	86.60	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1197	1207	1240	1215	1.87	cps
Phosphorus	31-2	413	400	473	429	9.11	cps
Potassium	39-2	172098	172209	170723	171677	0.48	cps
Rhodium	103-1	5164160	5031836	4972569	5056188	1.94	cps
Rhodium	103-2	3085341	3040741	3087639	3071240	0.86	cps
Scandium	45-1	3074700	2976307	2841857	2964288	3.94	cps
Scandium	45-2	250408	250400	249985	250265	0.10	cps
Selenium	82-1	743	808	839	796	6.17	cps
Selenium	77-2	57	60	47	54	12.74	cps
Selenium	78-2	790	863	913	856	7.25	cps
Silicon	28-1	1308909	1216058	1237175	1254047	3.88	cps
Silver	107-1	6418	6825	6852	6698	3.63	cps
Silver	109-1	5798	6852	6875	6508	9.45	cps
Sodium	23-2	161666	160022	158914	160201	0.86	cps
Strontium	86-1	2790	2520	2364	2558	8.44	cps
Strontium	88-1	14537	15702	15899	15379	4.78	cps
Sulfur	34-1	119284	121646	121838	120923	1.18	cps
Terbium	159-1	6868514	6553098	6578785	6666799	2.63	cps
Terbium	159-2	4819887	4800058	4809184	4809710	0.21	cps
Thallium	203-1	4434	4641	4714	4596	3.16	cps
Thallium	205-1	10284	11385	10681	10783	5.17	cps
Tin	118-1	21500	22581	22698	22260	2.97	cps
Titanium	47-1	2977	3407	3310	3231	6.98	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P7
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 12:59:53	DataFile Name :	017LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13247	14148	14338	13911	4.19	cps
Vanadium	51-2	9083	8926	9120	9043	1.14	cps
Yttrium	89-1	8096519	7703445	7789845	7863270	2.63	cps
Yttrium	89-2	2181338	2185691	2141822	2169617	1.11	cps
Zinc	66-2	2490	2497	2440	2476	1.25	cps
Zirconium	90-1	8626	8906	9183	8905	3.13	cps
Zirconium	91-1	2090	2180	2150	2140	2.14	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	237	207	273	239	13.98	cps
Antimony	121-1	20	57	40	39	47.21	cps
Arsenic	75-2	0	7	7	4	86.60	cps
Barium	135-1	27	13	10	17	52.93	cps
Barium	137-1	27	27	20	24	15.75	cps
Beryllium	9-1	33	33	30	32	5.97	cps
Bismuth	209-1	5292783	4038236	3764662	4365227	18.67	cps
Bismuth	209-2	3311855	3362512	3439162	3371176	1.90	cps
Bromine	81-1	26528	27713	28070	27437	2.94	cps
Bromine	81-2	167	163	150	160	5.51	cps
Cadmium	108-1	10	3	7	7	50.03	cps
Cadmium	106-1	2254	1807	1623	1895	17.11	cps
Cadmium	111-1	1574	1279	1145	1333	16.46	cps
Calcium	43-1	260	170	247	226	21.53	cps
Calcium	44-1	7225	6572	6451	6749	6.17	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1477	1397	1383	1419	3.56	cps
Cobalt	59-2	67	57	77	67	15.00	cps
Copper	63-2	1717	1687	1710	1705	0.92	cps
Dysprosium	156-1	7	3	0	3	100.05	cps
Dysprosium	156-2	7	13	0	7	99.98	cps
Erbium	164-1	40	50	53	48	14.52	cps
Erbium	164-2	23	17	30	23	28.56	cps
Gadolinium	160-1	23	33	33	30	19.25	cps
Gadolinium	160-2	257	270	213	247	12.01	cps
Holmium	165-1	8825616	6541526	6128812	7165318	20.27	cps
Holmium	165-2	4628763	4572623	4588598	4596661	0.63	cps
Indium	115-1	7497503	5553343	5226650	6092499	20.15	cps
Indium	115-2	1946952	1944702	1956839	1949498	0.33	cps
Iron	56-2	23415	22684	22160	22753	2.77	cps
Iron	57-2	1157	1233	1157	1182	3.74	cps
Iron	54-2	2504	2410	2570	2495	3.22	cps
Krypton	83-1	1127	347	377	617	71.67	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	467	550	463	493	9.95	cps
Lead	207-1	480	453	407	447	8.31	cps
Lead	208-1	1923	2090	1873	1962	5.78	cps
Lithium	6-1	582256	418255	393451	464654	22.08	cps
Magnesium	24-2	157	203	150	170	17.10	cps
Manganese	55-2	9720	9396	8783	9300	5.12	cps
Molybdenum	94-1	223	170	127	173	27.93	cps
Molybdenum	95-1	103	60	50	71	39.86	cps
Molybdenum	96-1	213	157	157	176	18.64	cps
Molybdenum	97-1	60	37	37	44	30.31	cps
Molybdenum	98-1	197	120	90	136	40.58	cps
Neodymium	150-1	3	20	13	12	68.66	cps
Neodymium	150-2	0	10	0	3	173.21	cps
Nickel	60-2	353	297	283	311	11.95	cps
Phosphorus	31-2	210	200	237	216	8.79	cps
Potassium	39-2	46701	46538	47129	46789	0.65	cps
Rhodium	103-1	6897238	5188249	4959006	5681498	18.64	cps
Rhodium	103-2	2974720	2943560	2880924	2933068	1.63	cps
Scandium	45-1	4141501	3011791	2910133	3354475	20.38	cps
Scandium	45-2	243345	237905	237821	239690	1.32	cps
Selenium	82-1	100	230	200	177	38.32	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	607	727	713	682	9.64	cps
Silicon	28-1	1348443	1199173	1218068	1255228	6.48	cps
Silver	107-1	47	50	43	47	7.15	cps
Silver	109-1	17	43	23	28	49.95	cps
Sodium	23-2	13773	13976	13656	13802	1.17	cps
Strontium	86-1	1723	527	483	911	77.24	cps
Strontium	88-1	143	177	207	176	18.04	cps
Sulfur	34-1	109371	118233	118377	115327	4.47	cps
Terbium	159-1	9090603	6868232	6468958	7475931	18.89	cps
Terbium	159-2	4616419	4629620	4552784	4599608	0.89	cps
Thallium	203-1	93	103	93	97	5.97	cps
Thallium	205-1	240	250	143	211	27.90	cps
Tin	118-1	530	767	727	674	18.78	cps
Titanium	47-1	53	50	43	49	10.42	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P7
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:06:33	DataFile Name :	019_ICB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	43	7	3	18	124.84	cps
Vanadium	51-2	17	7	13	12	41.65	cps
Yttrium	89-1	11008741	8169046	7671183	8949657	20.12	cps
Yttrium	89-2	2084162	2063797	2079760	2075906	0.52	cps
Zinc	66-2	160	210	190	187	13.48	cps
Zirconium	90-1	517	353	383	418	20.81	cps
Zirconium	91-1	87	70	53	70	23.81	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9797810	9697868	9526935	9674204	1.42	cps
Antimony	121-1	5594	5775	5775	5715	1.82	cps
Arsenic	75-2	77	103	107	96	17.21	cps
Barium	135-1	1860	1770	1793	1808	2.58	cps
Barium	137-1	2930	2940	3014	2961	1.54	cps
Beryllium	9-1	233	253	167	218	20.84	cps
Bismuth	209-1	3523201	3574190	3547093	3548162	0.72	cps
Bismuth	209-2	3250460	3263342	3245507	3253103	0.28	cps
Bromine	81-1	29222	29336	29012	29190	0.56	cps
Bromine	81-2	273	320	257	283	11.59	cps
Cadmium	108-1	657	670	680	669	1.75	cps
Cadmium	106-1	1487	1423	1497	1469	2.71	cps
Cadmium	111-1	1448	1367	1328	1381	4.41	cps
Calcium	43-1	1256000	1271836	1266088	1264641	0.63	cps
Calcium	44-1	20707481	20767401	20884908	20786597	0.43	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	41557	41407	41564	41509	0.21	cps
Cobalt	59-2	4041	4037	3977	4018	0.89	cps
Copper	63-2	22046	22497	21642	22062	1.94	cps
Dysprosium	156-1	27	20	23	23	14.29	cps
Dysprosium	156-2	17	30	13	20	44.10	cps
Erbium	164-1	63	57	60	60	5.55	cps
Erbium	164-2	43	77	67	62	27.50	cps
Gadolinium	160-1	33	57	33	41	32.78	cps
Gadolinium	160-2	263	250	240	251	4.66	cps
Holmium	165-1	5965232	5900952	6213032	6026405	2.73	cps
Holmium	165-2	4638600	4640620	4511697	4596972	1.61	cps
Indium	115-1	4945962	4960549	4979442	4961985	0.34	cps
Indium	115-2	1875208	1879366	1853518	1869364	0.74	cps
Iron	56-2	183292984	182806697	179912097	182003926	1.00	cps
Iron	57-2	4518991	4482711	4401257	4467653	1.35	cps
Iron	54-2	9961959	9797461	9767156	9842192	1.07	cps
Krypton	83-1	360	433	437	410	10.57	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	16430	16941	17108	16826	2.10	cps
Lead	207-1	13303	13607	13560	13490	1.21	cps
Lead	208-1	62372	64085	63868	63442	1.47	cps
Lithium	6-1	366085	370423	369785	368764	0.64	cps
Magnesium	24-2	16671930	16652306	16477919	16600719	0.64	cps
Manganese	55-2	20915	20501	20895	20770	1.12	cps
Molybdenum	94-1	2735119	2752471	2781479	2756356	0.85	cps
Molybdenum	95-1	4798271	4860110	4914804	4857728	1.20	cps
Molybdenum	96-1	5148346	5171831	5200470	5173549	0.50	cps
Molybdenum	97-1	2949368	2947119	3021137	2972541	1.42	cps
Molybdenum	98-1	7738047	7585507	7709321	7677625	1.06	cps
Neodymium	150-1	20	17	33	23	37.78	cps
Neodymium	150-2	23	7	17	16	53.90	cps
Nickel	60-2	5194	5208	5181	5194	0.26	cps
Phosphorus	31-2	585085	573577	566908	575190	1.60	cps
Potassium	39-2	22270683	22337886	21978449	22195672	0.86	cps
Rhodium	103-1	4533716	4456202	4536505	4508808	1.01	cps
Rhodium	103-2	2826570	2813779	2733458	2791269	1.81	cps
Scandium	45-1	2672414	2715913	2690155	2692827	0.81	cps
Scandium	45-2	234132	233530	228555	232072	1.32	cps
Selenium	82-1	233	162	234	209	19.70	cps
Selenium	77-2	7	0	7	4	86.60	cps
Selenium	78-2	597	573	610	593	3.13	cps
Silicon	28-1	1236016	1195093	836311	1089140	20.19	cps
Silver	107-1	167	210	250	209	19.95	cps
Silver	109-1	133	140	203	159	24.32	cps
Sodium	23-2	28704268	27857895	27481705	28014623	2.24	cps
Strontium	86-1	53517	53102	52961	53194	0.54	cps
Strontium	88-1	472610	468156	476977	472581	0.93	cps
Sulfur	34-1	2029840	2033937	2034111	2032630	0.12	cps
Terbium	159-1	6171624	6116176	6205066	6164289	0.73	cps
Terbium	159-2	4592422	4566548	4470860	4543277	1.41	cps
Thallium	203-1	300	373	430	368	17.72	cps
Thallium	205-1	593	797	907	766	20.77	cps
Tin	118-1	2167	2294	2407	2289	5.25	cps
Titanium	47-1	1192874	1164163	1176601	1177879	1.22	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P7
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:10:21	DataFile Name :	020ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	263	293	287	281	5.60	cps
Vanadium	51-2	337	340	360	346	3.65	cps
Yttrium	89-1	7361869	7219259	7333357	7304828	1.03	cps
Yttrium	89-2	2031963	2024426	1987069	2014486	1.19	cps
Zinc	66-2	6041	5851	6081	5991	2.05	cps
Zirconium	90-1	547	653	497	566	14.15	cps
Zirconium	91-1	107	133	117	119	11.33	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	9673451	9555995	9530476	9586641	0.80	cps
Antimony	121-1	93552	94786	95655	94664	1.12	cps
Arsenic	75-2	5278	5254	5174	5235	1.04	cps
Barium	135-1	24504	24798	24838	24714	0.74	cps
Barium	137-1	43135	43406	44138	43560	1.19	cps
Beryllium	9-1	11511	11494	11434	11480	0.35	cps
Bismuth	209-1	3689156	3781145	3755255	3741852	1.27	cps
Bismuth	209-2	3461140	3353791	3374353	3396428	1.68	cps
Bromine	81-1	29282	30138	29650	29690	1.44	cps
Bromine	81-2	437	447	383	422	8.06	cps
Cadmium	108-1	2237	2264	2230	2244	0.79	cps
Cadmium	106-1	3957	3831	3734	3841	2.92	cps
Cadmium	111-1	26039	26743	27126	26636	2.07	cps
Calcium	43-1	1258910	1258578	1269069	1262186	0.47	cps
Calcium	44-1	20702171	20756405	20648302	20702293	0.26	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	75890	76178	75170	75746	0.69	cps
Cobalt	59-2	63122	62888	64053	63354	0.97	cps
Copper	63-2	64381	63440	63936	63919	0.74	cps
Dysprosium	156-1	23	27	30	27	12.51	cps
Dysprosium	156-2	27	10	17	18	47.19	cps
Erbium	164-1	87	67	57	70	21.82	cps
Erbium	164-2	63	30	47	47	35.71	cps
Gadolinium	160-1	40	30	33	34	14.78	cps
Gadolinium	160-2	297	247	287	277	9.56	cps
Holmium	165-1	6274796	6352020	6277827	6301548	0.69	cps
Holmium	165-2	4850428	4761060	4831441	4814310	0.98	cps
Indium	115-1	5121999	5147407	5227272	5165559	1.06	cps
Indium	115-2	1913885	1986478	1937695	1946019	1.90	cps
Iron	56-2	182854817	182076404	181822417	182251213	0.30	cps
Iron	57-2	4558921	4506479	4561988	4542462	0.69	cps
Iron	54-2	9965990	9971634	9925433	9954353	0.25	cps
Krypton	83-1	350	337	317	334	5.02	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	84132	84923	85617	84891	0.88	cps
Lead	207-1	71373	73564	72043	72327	1.55	cps
Lead	208-1	324550	329375	333972	329299	1.43	cps
Lithium	6-1	387189	387994	382407	385863	0.78	cps
Magnesium	24-2	16385982	16379215	16416914	16394037	0.12	cps
Manganese	55-2	50150	50294	49702	50049	0.62	cps
Molybdenum	94-1	2697933	2748374	2747362	2731223	1.06	cps
Molybdenum	95-1	4742856	4886105	4817070	4815344	1.49	cps
Molybdenum	96-1	5056422	5225613	5137924	5139987	1.65	cps
Molybdenum	97-1	2953471	3012012	2980961	2982148	0.98	cps
Molybdenum	98-1	7639164	7766166	7743175	7716168	0.88	cps
Neodymium	150-1	27	33	17	26	32.81	cps
Neodymium	150-2	7	17	7	10	57.72	cps
Nickel	60-2	20007	20207	20307	20174	0.76	cps
Phosphorus	31-2	572719	571753	575480	573317	0.34	cps
Potassium	39-2	22181590	22267229	22558561	22335793	0.88	cps
Rhodium	103-1	4569508	4746256	4686638	4667467	1.93	cps
Rhodium	103-2	2890960	2878626	2903662	2891083	0.43	cps
Scandium	45-1	2769152	2796536	2795793	2787160	0.56	cps
Scandium	45-2	243138	243049	241570	242586	0.36	cps
Selenium	82-1	2101	2244	2190	2178	3.31	cps
Selenium	77-2	190	200	240	210	12.60	cps
Selenium	78-2	1343	1273	1270	1296	3.20	cps
Silicon	28-1	817370	826126	832193	825229	0.90	cps
Silver	107-1	117175	118499	118596	118090	0.67	cps
Silver	109-1	110836	112371	113053	112087	1.01	cps
Sodium	23-2	27691314	27955575	28188533	27945140	0.89	cps
Strontium	86-1	51580	53356	54055	52997	2.41	cps
Strontium	88-1	461917	471902	470522	468114	1.16	cps
Sulfur	34-1	1994530	1966661	1949362	1970184	1.16	cps
Terbium	159-1	6532105	6591309	6573527	6565647	0.46	cps
Terbium	159-2	4689443	4663850	4687058	4680117	0.30	cps
Thallium	203-1	83990	86452	86774	85739	1.78	cps
Thallium	205-1	195532	200911	200111	198851	1.46	cps
Tin	118-1	2040	2064	2267	2124	5.87	cps
Titanium	47-1	1148651	1205218	1156514	1170128	2.62	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	ICSAB01	Instrumnet Name :	P7
Client Sample ID :	ICSAB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:28:17	DataFile Name :	022ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	470	387	457	438	10.22	cps
Vanadium	51-2	32214	32021	31690	31975	0.83	cps
Yttrium	89-1	7433239	7535877	7631292	7533469	1.31	cps
Yttrium	89-2	2113293	2122080	2101116	2112163	0.50	cps
Zinc	66-2	13883	14127	14060	14023	0.90	cps
Zirconium	90-1	473	440	453	456	3.68	cps
Zirconium	91-1	133	130	110	124	10.14	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5092683	5059972	5171626	5108094	1.12	cps
Antimony	121-1	2289140	2363781	2426717	2359879	2.92	cps
Arsenic	75-2	134301	134517	133370	134063	0.45	cps
Barium	135-1	3001893	3104741	3152370	3086335	2.49	cps
Barium	137-1	5340707	5299049	5431929	5357228	1.27	cps
Beryllium	9-1	261527	264959	267580	264689	1.15	cps
Bismuth	209-1	3527780	3691861	3624514	3614718	2.28	cps
Bismuth	209-2	3294956	3270294	3221698	3262316	1.14	cps
Bromine	81-1	27980	28404	29019	28468	1.83	cps
Bromine	81-2	190	190	193	191	1.01	cps
Cadmium	108-1	43498	45608	45227	44778	2.51	cps
Cadmium	106-1	63006	64546	64797	64116	1.51	cps
Cadmium	111-1	609193	622869	631015	621026	1.78	cps
Calcium	43-1	3023280	3114634	3143068	3093661	2.02	cps
Calcium	44-1	49180639	50466938	51257458	50301678	2.08	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	947795	948631	947037	947821	0.08	cps
Cobalt	59-2	1536113	1581370	1527229	1548237	1.88	cps
Copper	63-2	10612540	10416799	10540736	10523358	0.94	cps
Dysprosium	156-1	107	103	110	107	3.12	cps
Dysprosium	156-2	187	220	190	199	9.23	cps
Erbium	164-1	113	187	157	152	24.22	cps
Erbium	164-2	93	140	73	102	33.47	cps
Gadolinium	160-1	107	77	133	106	26.86	cps
Gadolinium	160-2	290	283	287	287	1.16	cps
Holmium	165-1	6133006	6257982	6300112	6230367	1.39	cps
Holmium	165-2	4686600	4707036	4716358	4703331	0.32	cps
Indium	115-1	4956862	4957221	4999695	4971259	0.50	cps
Indium	115-2	1888710	1917955	1854750	1887138	1.68	cps
Iron	56-2	221969297	223953470	217267323	221063363	1.55	cps
Iron	57-2	5552595	5564202	5477565	5531454	0.85	cps
Iron	54-2	12029497	12086956	11986474	12034309	0.42	cps
Krypton	83-1	383	343	350	359	5.97	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8749524	9050890	9216164	9005526	2.63	cps
Lead	207-1	7783631	8096751	8155034	8011805	2.49	cps
Lead	208-1	35185173	36622915	36962302	36256796	2.60	cps
Lithium	6-1	354977	363530	363937	360815	1.40	cps
Magnesium	24-2	42932633	43681883	43316361	43310292	0.87	cps
Manganese	55-2	7685197	7625193	7495929	7602106	1.27	cps
Molybdenum	94-1	8275778	8485705	8458721	8406735	1.36	cps
Molybdenum	95-1	11866917	12254213	12427176	12182769	2.35	cps
Molybdenum	96-1	13136181	13370708	13524160	13343683	1.46	cps
Molybdenum	97-1	7351542	7572447	7619172	7514387	1.90	cps
Molybdenum	98-1	19122092	19598301	20024500	19581631	2.31	cps
Neodymium	150-1	157	150	177	161	8.61	cps
Neodymium	150-2	93	43	47	61	45.74	cps
Nickel	60-2	379633	375739	375742	377038	0.60	cps
Phosphorus	31-2	57304	58090	58271	57888	0.89	cps
Potassium	39-2	28226140	28152123	28732899	28370387	1.11	cps
Rhodium	103-1	4486555	4598615	4502994	4529388	1.34	cps
Rhodium	103-2	2753214	2782935	2831289	2789146	1.41	cps
Scandium	45-1	2659185	2726480	2718408	2701357	1.36	cps
Scandium	45-2	236397	239868	239715	238660	0.82	cps
Selenium	82-1	45680	46628	47596	46635	2.05	cps
Selenium	77-2	5258	5288	5211	5252	0.74	cps
Selenium	78-2	18225	18238	18188	18217	0.14	cps
Silicon	28-1	2366697	2461487	2470660	2432948	2.37	cps
Silver	107-1	3015822	3134553	3137096	3095824	2.24	cps
Silver	109-1	2863439	2967999	2990544	2940661	2.31	cps
Sodium	23-2	68206279	68744621	70161111	69037337	1.46	cps
Strontium	86-1	751949	764083	776723	764252	1.62	cps
Strontium	88-1	6789161	7011111	7164787	6988353	2.70	cps
Sulfur	34-1	273337	280513	282295	278715	1.70	cps
Terbium	159-1	6275386	6586859	6490458	6450901	2.47	cps
Terbium	159-2	4771912	4656884	4605641	4678146	1.82	cps
Thallium	203-1	2184730	2261118	2274992	2240280	2.17	cps
Thallium	205-1	5118447	5332670	5327704	5259607	2.32	cps
Tin	118-1	2016294	2074391	2121790	2070825	2.55	cps
Titanium	47-1	2899878	2914386	3007087	2940450	1.98	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P7
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:31:24	DataFile Name :	023CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7159363	7335554	7274740	7256552	1.23	cps
Vanadium	51-2	824546	820818	808597	817987	1.02	cps
Yttrium	89-1	7278207	7482341	7430778	7397108	1.44	cps
Yttrium	89-2	2066895	2051468	2098645	2072336	1.16	cps
Zinc	66-2	1955110	1930024	1898222	1927786	1.48	cps
Zirconium	90-1	4025866	4250490	4275641	4183999	3.29	cps
Zirconium	91-1	877873	897219	907441	894178	1.68	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3500	3560	3440	3500	1.71	cps
Antimony	121-1	390	517	567	491	18.54	cps
Arsenic	75-2	10	7	7	8	24.71	cps
Barium	135-1	27	47	73	49	47.88	cps
Barium	137-1	53	103	97	84	32.15	cps
Beryllium	9-1	60	40	30	43	35.25	cps
Bismuth	209-1	3927432	3906829	3836297	3890186	1.23	cps
Bismuth	209-2	3534897	3453106	3465947	3484650	1.26	cps
Bromine	81-1	28000	28321	28234	28185	0.59	cps
Bromine	81-2	167	173	147	162	8.56	cps
Cadmium	108-1	3	17	13	11	62.48	cps
Cadmium	106-1	1587	1453	1440	1493	5.43	cps
Cadmium	111-1	1165	1026	1065	1085	6.61	cps
Calcium	43-1	277	243	230	250	9.62	cps
Calcium	44-1	7592	7409	7579	7526	1.36	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1563	1310	1357	1410	9.56	cps
Cobalt	59-2	83	47	60	63	29.30	cps
Copper	63-2	3214	2860	2950	3008	6.11	cps
Dysprosium	156-1	0	13	3	6	124.93	cps
Dysprosium	156-2	0	3	0	1	173.21	cps
Erbium	164-1	70	50	50	57	20.38	cps
Erbium	164-2	23	30	40	31	26.97	cps
Gadolinium	160-1	30	37	30	32	11.95	cps
Gadolinium	160-2	200	260	183	214	18.80	cps
Holmium	165-1	6478884	6334406	6371979	6395090	1.17	cps
Holmium	165-2	4787901	4710410	4742779	4747030	0.82	cps
Indium	115-1	5362439	5330171	5369953	5354188	0.39	cps
Indium	115-2	1986513	1967795	1997379	1983896	0.75	cps
Iron	56-2	26811	26484	26533	26609	0.66	cps
Iron	57-2	1210	1273	1213	1232	2.89	cps
Iron	54-2	2637	2660	2584	2627	1.50	cps
Krypton	83-1	297	313	310	307	2.88	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	620	720	763	701	10.49	cps
Lead	207-1	580	633	717	643	10.71	cps
Lead	208-1	2550	2720	3044	2771	9.04	cps
Lithium	6-1	370531	366304	365278	367371	0.76	cps
Magnesium	24-2	827	810	850	829	2.42	cps
Manganese	55-2	10287	10020	9827	10045	2.30	cps
Molybdenum	94-1	570	603	503	559	9.11	cps
Molybdenum	95-1	367	373	363	368	1.38	cps
Molybdenum	96-1	517	597	430	514	16.20	cps
Molybdenum	97-1	300	247	197	248	20.86	cps
Molybdenum	98-1	653	520	560	578	11.84	cps
Neodymium	150-1	7	10	10	9	21.63	cps
Neodymium	150-2	0	3	3	2	86.60	cps
Nickel	60-2	400	373	397	390	3.73	cps
Phosphorus	31-2	190	253	173	206	20.53	cps
Potassium	39-2	45996	46370	47317	46561	1.46	cps
Rhodium	103-1	4944374	5002816	4912846	4953345	0.92	cps
Rhodium	103-2	2995651	2996598	3066147	3019465	1.34	cps
Scandium	45-1	2799927	2848556	2751200	2799894	1.74	cps
Scandium	45-2	240835	239361	239677	239958	0.32	cps
Selenium	82-1	324	282	270	292	9.75	cps
Selenium	77-2	3	0	0	1	173.21	cps
Selenium	78-2	677	653	670	667	1.80	cps
Silicon	28-1	827217	1161351	1178712	1055760	18.77	cps
Silver	107-1	143	150	187	160	14.58	cps
Silver	109-1	107	97	150	118	24.07	cps
Sodium	23-2	18187	17624	18031	17947	1.62	cps
Strontium	86-1	543	577	560	560	2.98	cps
Strontium	88-1	197	190	187	191	2.66	cps
Sulfur	34-1	92404	93524	92229	92719	0.76	cps
Terbium	159-1	6752641	6579404	6578109	6636718	1.51	cps
Terbium	159-2	4793111	4699414	4742357	4744960	0.99	cps
Thallium	203-1	397	337	423	386	11.51	cps
Thallium	205-1	960	987	917	954	3.70	cps
Tin	118-1	923	957	957	946	2.04	cps
Titanium	47-1	103	90	133	109	20.39	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P7
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:34:12	DataFile Name :	024CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	133	80	97	103	26.41	cps
Vanadium	51-2	33	43	27	34	24.35	cps
Yttrium	89-1	7683719	7694495	7736522	7704912	0.36	cps
Yttrium	89-2	2119146	2095524	2121656	2112109	0.68	cps
Zinc	66-2	443	343	367	384	13.61	cps
Zirconium	90-1	1143	1007	1087	1079	6.36	cps
Zirconium	91-1	247	240	200	229	11.03	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2424	2404	2487	2438	1.78	cps
Antimony	121-1	9980	10481	10451	10304	2.72	cps
Arsenic	75-2	363	337	343	348	3.99	cps
Barium	135-1	12889	13493	13026	13136	2.41	cps
Barium	137-1	22288	22675	22718	22560	1.05	cps
Beryllium	9-1	587	627	633	616	4.10	cps
Bismuth	209-1	3869180	3947662	3827889	3881577	1.57	cps
Bismuth	209-2	3588572	3622079	3627032	3612561	0.58	cps
Bromine	81-1	30295	30248	30438	30327	0.33	cps
Bromine	81-2	190	153	157	167	12.16	cps
Cadmium	108-1	93	157	100	117	29.83	cps
Cadmium	106-1	1560	1660	1623	1615	3.13	cps
Cadmium	111-1	2473	2573	2563	2536	2.16	cps
Calcium	43-1	7108	7308	7359	7258	1.82	cps
Calcium	44-1	122268	123609	126391	124089	1.69	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	5691	5284	5364	5447	3.96	cps
Cobalt	59-2	3520	3807	3981	3769	6.16	cps
Copper	63-2	7285	7949	7325	7520	4.95	cps
Dysprosium	156-1	3	10	7	7	50.03	cps
Dysprosium	156-2	0	7	7	4	86.60	cps
Erbium	164-1	43	37	53	44	18.87	cps
Erbium	164-2	30	23	37	30	22.23	cps
Gadolinium	160-1	27	47	30	34	31.11	cps
Gadolinium	160-2	257	227	270	251	8.84	cps
Holmium	165-1	6408885	6399697	6470668	6426417	0.60	cps
Holmium	165-2	4955312	4985108	4932303	4957575	0.53	cps
Indium	115-1	5344985	5435058	5556376	5445473	1.95	cps
Indium	115-2	2085991	2079224	2090499	2085238	0.27	cps
Iron	56-2	126504	126312	126634	126484	0.13	cps
Iron	57-2	3837	3637	4037	3837	5.21	cps
Iron	54-2	8322	8202	7945	8157	2.36	cps
Krypton	83-1	300	320	427	349	19.52	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	4061	4367	4331	4253	3.94	cps
Lead	207-1	3837	3834	3661	3777	2.68	cps
Lead	208-1	16778	17465	16594	16945	2.71	cps
Lithium	6-1	380543	384109	385144	383265	0.63	cps
Magnesium	24-2	91722	91473	91879	91692	0.22	cps
Manganese	55-2	11474	11034	11551	11353	2.46	cps
Molybdenum	94-1	11108	11101	11058	11089	0.24	cps
Molybdenum	95-1	12726	12846	13059	12877	1.31	cps
Molybdenum	96-1	14414	14904	14724	14681	1.69	cps
Molybdenum	97-1	8106	8269	8066	8147	1.32	cps
Molybdenum	98-1	20585	21062	20962	20869	1.21	cps
Neodymium	150-1	13	10	0	8	89.21	cps
Neodymium	150-2	0	0	3	1	173.21	cps
Nickel	60-2	1207	1127	1263	1199	5.73	cps
Phosphorus	31-2	350	357	420	376	10.29	cps
Potassium	39-2	170096	169354	169631	169694	0.22	cps
Rhodium	103-1	5005904	5161090	5042082	5069692	1.60	cps
Rhodium	103-2	3200875	3197418	3144099	3180797	1.00	cps
Scandium	45-1	2856165	2920854	2968502	2915174	1.93	cps
Scandium	45-2	251953	251557	253476	252329	0.40	cps
Selenium	82-1	875	833	828	845	3.09	cps
Selenium	77-2	63	87	53	68	25.24	cps
Selenium	78-2	877	1023	967	956	7.74	cps
Silicon	28-1	1185834	1192524	1189185	1189181	0.28	cps
Silver	107-1	6872	7472	6968	7104	4.54	cps
Silver	109-1	6395	6935	6532	6620	4.24	cps
Sodium	23-2	156534	159422	157608	157855	0.92	cps
Strontium	86-1	2247	2334	2434	2338	4.00	cps
Strontium	88-1	14731	15415	15685	15277	3.22	cps
Sulfur	34-1	104864	106061	105111	105345	0.60	cps
Terbium	159-1	6592624	6673120	6800184	6688643	1.56	cps
Terbium	159-2	4862116	4904402	4893474	4886664	0.45	cps
Thallium	203-1	4734	4678	4854	4755	1.90	cps
Thallium	205-1	11061	11251	11462	11258	1.78	cps
Tin	118-1	22862	23810	23132	23268	2.10	cps
Titanium	47-1	3140	3244	3247	3210	1.89	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P7
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 13:44:13	DataFile Name :	026LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	14314	14271	14558	14381	1.08	cps
Vanadium	51-2	9113	8889	9400	9134	2.80	cps
Yttrium	89-1	7696940	8027985	7834187	7853037	2.12	cps
Yttrium	89-2	2183620	2231939	2243644	2219735	1.43	cps
Zinc	66-2	2554	2524	2587	2555	1.24	cps
Zirconium	90-1	9527	9590	9473	9530	0.61	cps
Zirconium	91-1	2070	2087	2050	2069	0.89	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	297	273	263	278	6.16	cps
Antimony	121-1	33	37	50	40	22.05	cps
Arsenic	75-2	7	7	10	8	24.71	cps
Barium	135-1	20	23	13	19	26.96	cps
Barium	137-1	43	20	17	27	54.47	cps
Beryllium	9-1	50	27	47	41	30.69	cps
Bismuth	209-1	3848867	3875652	3874487	3866335	0.39	cps
Bismuth	209-2	3536021	3483159	3481577	3500252	0.89	cps
Bromine	81-1	29931	31113	30108	30384	2.10	cps
Bromine	81-2	147	167	130	148	12.42	cps
Cadmium	108-1	3	10	0	4	114.60	cps
Cadmium	106-1	1317	1550	1410	1426	8.24	cps
Cadmium	111-1	959	1091	1007	1019	6.56	cps
Calcium	43-1	197	277	240	238	16.84	cps
Calcium	44-1	6668	6605	6805	6693	1.53	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1147	1137	1183	1156	2.13	cps
Cobalt	59-2	47	43	33	41	16.89	cps
Copper	63-2	2053	2167	1977	2066	4.63	cps
Dysprosium	156-1	7	3	3	4	43.40	cps
Dysprosium	156-2	3	10	7	7	50.03	cps
Erbium	164-1	33	40	40	38	10.19	cps
Erbium	164-2	33	30	20	28	24.98	cps
Gadolinium	160-1	20	33	27	27	24.99	cps
Gadolinium	160-2	243	217	213	224	7.33	cps
Holmium	165-1	6459993	6492286	6388945	6447075	0.82	cps
Holmium	165-2	4784965	4749070	4707875	4747303	0.81	cps
Indium	115-1	5540778	5518050	5491674	5516834	0.45	cps
Indium	115-2	2103516	2098980	2107865	2103453	0.21	cps
Iron	56-2	22467	22270	22594	22443	0.73	cps
Iron	57-2	1167	1177	1207	1183	1.76	cps
Iron	54-2	2320	2377	2414	2370	1.98	cps
Krypton	83-1	317	357	400	358	11.65	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	510	487	417	471	10.31	cps
Lead	207-1	383	347	327	352	8.16	cps
Lead	208-1	1877	1703	1660	1747	6.56	cps
Lithium	6-1	361440	363527	366108	363692	0.64	cps
Magnesium	24-2	193	187	157	179	10.92	cps
Manganese	55-2	10007	9920	9977	9968	0.44	cps
Molybdenum	94-1	173	197	170	180	8.07	cps
Molybdenum	95-1	53	60	27	47	37.79	cps
Molybdenum	96-1	143	150	183	159	13.49	cps
Molybdenum	97-1	53	7	40	33	72.10	cps
Molybdenum	98-1	127	80	73	93	31.14	cps
Neodymium	150-1	3	0	3	2	86.60	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	207	253	263	241	12.54	cps
Phosphorus	31-2	200	177	213	197	9.44	cps
Potassium	39-2	47447	47133	48106	47562	1.04	cps
Rhodium	103-1	5119754	5095612	5131456	5115607	0.36	cps
Rhodium	103-2	3154152	3121817	3137344	3137771	0.52	cps
Scandium	45-1	3041150	2965082	2980526	2995586	1.34	cps
Scandium	45-2	252577	252973	251969	252506	0.20	cps
Selenium	82-1	293	215	199	236	21.44	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	720	783	680	728	7.16	cps
Silicon	28-1	1364142	1310662	1347043	1340616	2.04	cps
Silver	107-1	53	43	43	47	12.37	cps
Silver	109-1	33	27	10	23	51.50	cps
Sodium	23-2	13866	14123	13903	13964	0.99	cps
Strontium	86-1	557	603	570	577	4.17	cps
Strontium	88-1	57	100	77	78	27.88	cps
Sulfur	34-1	117171	115750	115083	116002	0.92	cps
Terbium	159-1	6684743	6700516	6799321	6728193	0.92	cps
Terbium	159-2	4814986	4820244	4810649	4815293	0.10	cps
Thallium	203-1	73	67	110	83	28.00	cps
Thallium	205-1	237	233	223	231	3.00	cps
Tin	118-1	677	720	773	723	6.69	cps
Titanium	47-1	50	60	57	56	9.17	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BL	Instrumnet Name :	P7
Client Sample ID :	PB167552BL	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:15:07	DataFile Name :	027CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13	17	7	12	41.65	cps
Vanadium	51-2	17	7	7	10	57.72	cps
Yttrium	89-1	8003320	8033006	7853472	7963266	1.21	cps
Yttrium	89-2	2215393	2208236	2173953	2199194	1.01	cps
Zinc	66-2	233	167	177	192	18.70	cps
Zirconium	90-1	337	347	417	367	11.89	cps
Zirconium	91-1	70	107	63	80	29.17	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	971699	945473	939908	952360	1.78	cps
Antimony	121-1	2439669	2434455	2473988	2449370	0.88	cps
Arsenic	75-2	138954	139240	135984	138060	1.31	cps
Barium	135-1	3196000	3227378	3212749	3212042	0.49	cps
Barium	137-1	5402486	5568127	5466329	5478981	1.52	cps
Beryllium	9-1	261256	268641	274009	267969	2.39	cps
Bismuth	209-1	3801291	3919212	3843602	3854701	1.55	cps
Bismuth	209-2	3484616	3478226	3453398	3472080	0.47	cps
Bromine	81-1	29957	29132	28050	29046	3.29	cps
Bromine	81-2	147	170	143	153	9.47	cps
Cadmium	108-1	47541	48802	47879	48074	1.36	cps
Cadmium	106-1	68936	68712	68481	68709	0.33	cps
Cadmium	111-1	667051	682700	675657	675136	1.16	cps
Calcium	43-1	649174	662740	655393	655769	1.04	cps
Calcium	44-1	10728823	10803307	10712546	10748225	0.45	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	955330	954524	949665	953173	0.32	cps
Cobalt	59-2	1567295	1576341	1586008	1576548	0.59	cps
Copper	63-2	10880712	10857992	10743900	10827535	0.68	cps
Dysprosium	156-1	50	60	37	49	23.94	cps
Dysprosium	156-2	130	140	153	141	8.30	cps
Erbium	164-1	70	90	83	81	12.55	cps
Erbium	164-2	70	60	57	62	11.15	cps
Gadolinium	160-1	33	43	37	38	13.48	cps
Gadolinium	160-2	257	230	260	249	6.61	cps
Holmium	165-1	6457134	6340640	6525436	6441070	1.45	cps
Holmium	165-2	4762109	4740358	4784851	4762439	0.47	cps
Indium	115-1	5281279	5318237	5214283	5271266	1.00	cps
Indium	115-2	1917671	1969559	1961199	1949476	1.43	cps
Iron	56-2	45754601	46569586	45888833	46071007	0.95	cps
Iron	57-2	1148537	1166749	1148268	1154518	0.92	cps
Iron	54-2	2565931	2562326	2581920	2570059	0.41	cps
Krypton	83-1	367	323	323	338	7.41	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9046420	9358961	9374962	9260114	2.00	cps
Lead	207-1	8003060	8214241	8277751	8165018	1.76	cps
Lead	208-1	36443288	37724131	37870654	37346024	2.10	cps
Lithium	6-1	362017	360664	361966	361549	0.21	cps
Magnesium	24-2	8809176	8530594	8571715	8637162	1.74	cps
Manganese	55-2	7689360	8086593	7887574	7887843	2.52	cps
Molybdenum	94-1	8592464	8838548	8659164	8696725	1.46	cps
Molybdenum	95-1	12343145	12471528	12436749	12417140	0.53	cps
Molybdenum	96-1	13262406	13746215	13579518	13529380	1.82	cps
Molybdenum	97-1	7601037	7784523	7714969	7700177	1.20	cps
Molybdenum	98-1	19960226	20424093	19972026	20118782	1.31	cps
Neodymium	150-1	117	183	157	152	22.04	cps
Neodymium	150-2	17	33	40	30	40.05	cps
Nickel	60-2	385334	390661	387515	387837	0.69	cps
Phosphorus	31-2	57297	56521	56005	56608	1.15	cps
Potassium	39-2	5674341	5533108	5567229	5591560	1.32	cps
Rhodium	103-1	4939742	4898652	4831121	4889838	1.12	cps
Rhodium	103-2	2960140	2934752	2904347	2933080	0.95	cps
Scandium	45-1	2932289	2823681	2871370	2875780	1.89	cps
Scandium	45-2	242397	237562	236043	238667	1.39	cps
Selenium	82-1	50694	51513	51885	51364	1.19	cps
Selenium	77-2	5378	5454	5174	5335	2.71	cps
Selenium	78-2	19306	19122	19626	19352	1.32	cps
Silicon	28-1	2600247	2678732	2656108	2645029	1.53	cps
Silver	107-1	3304008	3341245	3278158	3307803	0.96	cps
Silver	109-1	3167139	3260778	3147569	3191829	1.90	cps
Sodium	23-2	14289021	13734870	13776421	13933437	2.22	cps
Strontium	86-1	784971	792312	782863	786715	0.63	cps
Strontium	88-1	7002019	7253141	7220497	7158552	1.91	cps
Sulfur	34-1	294114	294655	290352	293040	0.80	cps
Terbium	159-1	6641331	6716608	6595459	6651132	0.92	cps
Terbium	159-2	4859957	4710060	4640097	4736705	2.37	cps
Thallium	203-1	2282181	2316957	2349359	2316166	1.45	cps
Thallium	205-1	5391135	5511207	5439122	5447154	1.11	cps
Tin	118-1	2128877	2151832	2161091	2147267	0.77	cps
Titanium	47-1	3059353	3098726	3048656	3068912	0.86	cps

Reviewed By:mohan
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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	PB167552BS	Instrumnet Name :	P7
Client Sample ID :	PB167552BS	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:18:25	DataFile Name :	028LCSE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7040985	7212652	7228832	7160823	1.45	cps
Vanadium	51-2	812010	819789	810942	814247	0.59	cps
Yttrium	89-1	7987426	7600204	7654849	7747493	2.71	cps
Yttrium	89-2	2133329	2113587	2134046	2126987	0.55	cps
Zinc	66-2	2086219	2100186	2090510	2092305	0.34	cps
Zirconium	90-1	4206552	4170312	4284625	4220496	1.38	cps
Zirconium	91-1	906270	928374	914343	916329	1.22	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	815969	813201	821419	816863	0.51	cps
Antimony	121-1	673	597	767	679	12.54	cps
Arsenic	75-2	557	477	553	529	8.56	cps
Barium	135-1	136133	139058	140549	138580	1.62	cps
Barium	137-1	240457	242063	247751	243424	1.57	cps
Beryllium	9-1	260	217	267	248	10.96	cps
Bismuth	209-1	3874799	3904414	3943853	3907689	0.89	cps
Bismuth	209-2	3652277	3400056	3322220	3458184	4.99	cps
Bromine	81-1	29222	30451	31009	30228	3.02	cps
Bromine	81-2	930	887	930	916	2.73	cps
Cadmium	108-1	63	50	70	61	16.66	cps
Cadmium	106-1	1723	1553	1577	1618	5.70	cps
Cadmium	111-1	1649	1499	1458	1535	6.54	cps
Calcium	43-1	33494	32866	34082	33480	1.82	cps
Calcium	44-1	545147	554581	563618	554449	1.67	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38793	38760	40120	39224	1.98	cps
Cobalt	59-2	5581	5578	5648	5602	0.71	cps
Copper	63-2	26246	26650	26924	26607	1.28	cps
Dysprosium	156-1	12949	13076	13530	13185	2.32	cps
Dysprosium	156-2	13430	12839	12926	13065	2.44	cps
Erbium	164-1	8603	8823	8990	8805	2.20	cps
Erbium	164-2	6695	6718	6688	6701	0.24	cps
Gadolinium	160-1	11932	11892	12212	12012	1.45	cps
Gadolinium	160-2	9797	9580	10070	9816	2.50	cps
Holmium	165-1	6419923	6466284	6433038	6439748	0.37	cps
Holmium	165-2	4865392	4614981	4467204	4649192	4.33	cps
Indium	115-1	5386821	5375221	5415492	5392511	0.38	cps
Indium	115-2	2018486	1889327	1885011	1930941	3.93	cps
Iron	56-2	6908841	6908534	6947713	6921696	0.33	cps
Iron	57-2	172922	172117	175540	173527	1.03	cps
Iron	54-2	381117	376536	383563	380405	0.94	cps
Krypton	83-1	343	437	423	401	12.59	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	119177	120802	120868	120282	0.80	cps
Lead	207-1	99414	101291	101237	100647	1.06	cps
Lead	208-1	461393	470111	472629	468044	1.26	cps
Lithium	6-1	382334	385763	387535	385211	0.69	cps
Magnesium	24-2	187968	184925	186114	186336	0.82	cps
Manganese	55-2	163888	159258	164421	162522	1.75	cps
Molybdenum	94-1	11545	10711	10487	10914	5.11	cps
Molybdenum	95-1	717	600	650	656	8.93	cps
Molybdenum	96-1	2837	2580	2674	2697	4.82	cps
Molybdenum	97-1	503	450	493	482	5.88	cps
Molybdenum	98-1	990	1060	1037	1029	3.46	cps
Neodymium	150-1	29103	29648	29254	29335	0.96	cps
Neodymium	150-2	19173	18883	19387	19148	1.32	cps
Nickel	60-2	6765	6261	6578	6535	3.90	cps
Phosphorus	31-2	1117	953	917	996	10.70	cps
Potassium	39-2	195171	191263	194597	193677	1.09	cps
Rhodium	103-1	4991570	4926338	4990693	4969533	0.75	cps
Rhodium	103-2	3049637	2880714	2807393	2912581	4.27	cps
Scandium	45-1	2842291	2877635	2896750	2872225	0.96	cps
Scandium	45-2	251766	236669	227345	238593	5.17	cps
Selenium	82-1	299	252	304	285	9.97	cps
Selenium	77-2	67	43	40	50	29.06	cps
Selenium	78-2	667	737	667	690	5.86	cps
Silicon	28-1	2491551	2560344	2634403	2562099	2.79	cps
Silver	107-1	149177	153057	154209	152148	1.73	cps
Silver	109-1	142260	145101	145304	144222	1.18	cps
Sodium	23-2	157668	156346	158645	157553	0.73	cps
Strontium	86-1	35523	35614	35907	35681	0.56	cps
Strontium	88-1	309242	312219	315941	312468	1.07	cps
Sulfur	34-1	100611	98820	96965	98799	1.85	cps
Terbium	159-1	6593994	6681194	6756960	6677383	1.22	cps
Terbium	159-2	4888254	4558830	4477413	4641499	4.69	cps
Thallium	203-1	700	877	797	791	11.18	cps
Thallium	205-1	1807	1647	1980	1811	9.21	cps
Tin	118-1	1067	1053	1117	1079	3.09	cps
Titanium	47-1	33624	33674	34199	33832	0.94	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-02DLX5	Instrumnet Name :	P7
Client Sample ID :	S-875-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:21:16	DataFile Name :	029SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	13500	14158	13794	13817	2.38	cps
Vanadium	51-2	18044	18158	17934	18045	0.62	cps
Yttrium	89-1	7756378	7906111	7925201	7862563	1.18	cps
Yttrium	89-2	2206264	2123613	2021511	2117129	4.37	cps
Zinc	66-2	14921	14754	14210	14628	2.54	cps
Zirconium	90-1	29172	28591	27876	28547	2.27	cps
Zirconium	91-1	6431	6348	6378	6386	0.66	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1094661	1083653	1080278	1086197	0.69	cps
Antimony	121-1	1287	1183	1183	1218	4.90	cps
Arsenic	75-2	2550	2524	2417	2497	2.83	cps
Barium	135-1	456815	462252	464438	461168	0.85	cps
Barium	137-1	800049	806277	814851	807059	0.92	cps
Beryllium	9-1	777	817	870	821	5.70	cps
Bismuth	209-1	3946600	4035467	4100318	4027462	1.92	cps
Bismuth	209-2	3785287	3699520	3717668	3734158	1.21	cps
Bromine	81-1	36151	39349	40526	38675	5.85	cps
Bromine	81-2	2714	2684	2764	2720	1.49	cps
Cadmium	108-1	163	130	163	152	12.64	cps
Cadmium	106-1	1903	1820	1977	1900	4.13	cps
Cadmium	111-1	3048	3027	3056	3044	0.50	cps
Calcium	43-1	126990	129139	128244	128124	0.84	cps
Calcium	44-1	2013786	2081123	2135966	2076959	2.95	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	52116	52160	51963	52080	0.20	cps
Cobalt	59-2	18882	17964	18652	18499	2.58	cps
Copper	63-2	66370	66567	65285	66074	1.04	cps
Dysprosium	156-1	15792	16063	16546	16134	2.37	cps
Dysprosium	156-2	15178	15572	15278	15343	1.33	cps
Erbium	164-1	13693	14101	14247	14014	2.05	cps
Erbium	164-2	10888	10831	10134	10617	3.95	cps
Gadolinium	160-1	15242	16026	15879	15716	2.65	cps
Gadolinium	160-2	12713	12569	12723	12668	0.68	cps
Holmium	165-1	6600697	6617701	6655351	6624583	0.42	cps
Holmium	165-2	5104080	5087305	4991913	5061099	1.20	cps
Indium	115-1	5501576	5543634	5667481	5570897	1.55	cps
Indium	115-2	2130456	2112793	2107800	2117016	0.56	cps
Iron	56-2	20754753	20930219	21107174	20930715	0.84	cps
Iron	57-2	525231	521973	530845	526016	0.85	cps
Iron	54-2	1167420	1155416	1155711	1159516	0.59	cps
Krypton	83-1	447	430	403	427	5.12	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	275084	278974	279845	277968	0.91	cps
Lead	207-1	233479	234951	237958	235463	0.97	cps
Lead	208-1	1080286	1088821	1094678	1087928	0.67	cps
Lithium	6-1	384618	388874	389937	387810	0.73	cps
Magnesium	24-2	230524	228271	229071	229288	0.50	cps
Manganese	55-2	1494854	1472256	1506651	1491254	1.17	cps
Molybdenum	94-1	11868	11788	11822	11826	0.34	cps
Molybdenum	95-1	1457	1263	1273	1331	8.18	cps
Molybdenum	96-1	3777	3827	3764	3789	0.88	cps
Molybdenum	97-1	857	867	747	823	8.09	cps
Molybdenum	98-1	2174	1903	2080	2052	6.68	cps
Neodymium	150-1	31619	32401	31502	31840	1.53	cps
Neodymium	150-2	20552	20578	20331	20487	0.66	cps
Nickel	60-2	13256	13216	13373	13282	0.61	cps
Phosphorus	31-2	2340	2297	2334	2324	1.00	cps
Potassium	39-2	210594	213046	215706	213115	1.20	cps
Rhodium	103-1	5106104	5036661	5185284	5109350	1.46	cps
Rhodium	103-2	3191874	3238596	3194558	3208343	0.82	cps
Scandium	45-1	2911450	2957907	3089148	2986168	3.09	cps
Scandium	45-2	263942	261095	259239	261426	0.91	cps
Selenium	82-1	351	372	429	384	10.47	cps
Selenium	77-2	70	77	77	74	5.17	cps
Selenium	78-2	723	697	680	700	3.12	cps
Silicon	28-1	2296304	2359911	2314288	2323501	1.41	cps
Silver	107-1	696996	718371	717891	711086	1.72	cps
Silver	109-1	669422	678695	683745	677288	1.07	cps
Sodium	23-2	302588	302209	301822	302206	0.13	cps
Strontium	86-1	129874	130068	132703	130882	1.21	cps
Strontium	88-1	1133297	1152925	1162245	1149489	1.29	cps
Sulfur	34-1	103272	105148	104312	104244	0.90	cps
Terbium	159-1	6824125	6734521	7018542	6859063	2.12	cps
Terbium	159-2	5061979	5038113	5025720	5041937	0.37	cps
Thallium	203-1	1260	1313	1390	1321	4.95	cps
Thallium	205-1	3030	2894	3077	3000	3.18	cps
Tin	118-1	1357	1450	1503	1437	5.17	cps
Titanium	47-1	20307	23041	24842	22730	10.05	cps

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-03DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:24:34	DataFile Name :	030SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	26750	27695	27969	27472	2.33	cps
Vanadium	51-2	28661	28133	28794	28529	1.23	cps
Yttrium	89-1	8130427	8254240	8312732	8232466	1.13	cps
Yttrium	89-2	2322220	2303619	2346168	2324002	0.92	cps
Zinc	66-2	55767	55088	53633	54829	1.99	cps
Zirconium	90-1	29476	29112	30311	29633	2.07	cps
Zirconium	91-1	7214	11875	6898	8662	32.17	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1061355	1052558	1052814	1055576	0.47	cps
Antimony	121-1	930	973	1057	987	6.53	cps
Arsenic	75-2	1857	1757	1847	1820	3.03	cps
Barium	135-1	415758	424607	421882	420749	1.08	cps
Barium	137-1	725343	737158	741088	734530	1.12	cps
Beryllium	9-1	593	610	717	640	10.46	cps
Bismuth	209-1	4003251	3913780	4037091	3984707	1.60	cps
Bismuth	209-2	3722767	3711508	3704869	3713048	0.24	cps
Bromine	81-1	40422	41274	43033	41576	3.20	cps
Bromine	81-2	2774	2964	2784	2840	3.77	cps
Cadmium	108-1	90	127	140	119	21.78	cps
Cadmium	106-1	1963	1993	1800	1919	5.42	cps
Cadmium	111-1	2678	2527	2442	2549	4.69	cps
Calcium	43-1	117219	117669	118892	117926	0.73	cps
Calcium	44-1	1915097	1897036	1960470	1924201	1.70	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	51217	51106	51110	51144	0.12	cps
Cobalt	59-2	17153	17644	17497	17431	1.44	cps
Copper	63-2	67973	66822	66276	67024	1.29	cps
Dysprosium	156-1	15689	15686	16093	15822	1.48	cps
Dysprosium	156-2	14778	14698	14598	14691	0.61	cps
Erbium	164-1	13056	13377	13847	13427	2.96	cps
Erbium	164-2	10491	10361	10291	10381	0.98	cps
Gadolinium	160-1	14831	14791	15549	15057	2.83	cps
Gadolinium	160-2	12299	11989	11915	12068	1.69	cps
Holmium	165-1	6580185	6593739	6832980	6668968	2.13	cps
Holmium	165-2	5081776	5072645	5046319	5066914	0.36	cps
Indium	115-1	5497252	5479865	5639265	5538794	1.58	cps
Indium	115-2	2148689	2151980	2131659	2144109	0.51	cps
Iron	56-2	16955432	16885846	16840826	16894035	0.34	cps
Iron	57-2	420291	416424	423629	420115	0.86	cps
Iron	54-2	932995	931790	934045	932943	0.12	cps
Krypton	83-1	377	407	350	378	7.50	cps

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LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	278392	279983	283655	280677	0.96	cps
Lead	207-1	231776	237475	237363	235538	1.38	cps
Lead	208-1	1082603	1089695	1104873	1092390	1.04	cps
Lithium	6-1	392185	380407	392066	388219	1.74	cps
Magnesium	24-2	219271	219195	218376	218947	0.23	cps
Manganese	55-2	1530527	1547900	1550245	1542891	0.70	cps
Molybdenum	94-1	10380	10327	10474	10394	0.71	cps
Molybdenum	95-1	1230	1210	1293	1245	3.50	cps
Molybdenum	96-1	3577	3500	3374	3484	2.95	cps
Molybdenum	97-1	777	757	747	760	2.01	cps
Molybdenum	98-1	1940	1820	1847	1869	3.37	cps
Neodymium	150-1	30390	30433	29842	30221	1.09	cps
Neodymium	150-2	19924	19393	19647	19655	1.35	cps
Nickel	60-2	9540	9019	9430	9330	2.94	cps
Phosphorus	31-2	2327	2444	2374	2381	2.47	cps
Potassium	39-2	209423	207297	210143	208954	0.71	cps
Rhodium	103-1	5066803	5208093	5181846	5152247	1.46	cps
Rhodium	103-2	3209103	3151942	3204191	3188412	0.99	cps
Scandium	45-1	2989971	3042902	3006409	3013094	0.90	cps
Scandium	45-2	260671	262310	257619	260200	0.91	cps
Selenium	82-1	426	339	444	403	13.91	cps
Selenium	77-2	100	80	60	80	25.00	cps
Selenium	78-2	703	800	787	763	6.86	cps
Silicon	28-1	2434117	2506536	2432863	2457839	1.72	cps
Silver	107-1	802144	809022	829338	813502	1.74	cps
Silver	109-1	761616	773880	771226	768907	0.84	cps
Sodium	23-2	293120	292476	291557	292384	0.27	cps
Strontium	86-1	116628	120345	121093	119355	2.00	cps
Strontium	88-1	1040071	1065353	1054330	1053251	1.20	cps
Sulfur	34-1	103762	104735	105779	104759	0.96	cps
Terbium	159-1	6757091	6872870	6989982	6873314	1.69	cps
Terbium	159-2	4994964	5015130	4938482	4982859	0.80	cps
Thallium	203-1	1020	953	1060	1011	5.33	cps
Thallium	205-1	2210	2294	2417	2307	4.51	cps
Tin	118-1	1407	1523	1490	1473	4.08	cps
Titanium	47-1	18805	19156	19814	19258	2.66	cps

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LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-04DLX5	Instrumnet Name :	P7
Client Sample ID :	S-874-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:27:52	DataFile Name :	031SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	26370	26613	27395	26793	2.00	cps
Vanadium	51-2	25869	26210	26417	26165	1.06	cps
Yttrium	89-1	8272939	8248633	8269450	8263674	0.16	cps
Yttrium	89-2	2301467	2363676	2336386	2333843	1.34	cps
Zinc	66-2	44797	43911	44082	44263	1.06	cps
Zirconium	90-1	25419	26461	26290	26056	2.15	cps
Zirconium	91-1	5438	5971	6095	5835	5.98	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1123388	1193697	1181587	1166224	3.22	cps
Antimony	121-1	510	437	417	454	10.81	cps
Arsenic	75-2	1020	1000	1023	1014	1.24	cps
Barium	135-1	339690	341748	341866	341101	0.36	cps
Barium	137-1	595021	600047	597454	597507	0.42	cps
Beryllium	9-1	737	803	813	784	5.31	cps
Bismuth	209-1	3993094	4022335	4024874	4013435	0.44	cps
Bismuth	209-2	3656835	3634129	3623161	3638042	0.47	cps
Bromine	81-1	36107	36004	35790	35967	0.45	cps
Bromine	81-2	1460	1587	1483	1510	4.46	cps
Cadmium	108-1	113	140	117	123	11.78	cps
Cadmium	106-1	1867	1920	1757	1848	4.51	cps
Cadmium	111-1	2021	2073	2051	2048	1.28	cps
Calcium	43-1	70603	71511	72271	71462	1.17	cps
Calcium	44-1	1158053	1146947	1177201	1160734	1.32	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	62978	62456	64370	63268	1.56	cps
Cobalt	59-2	10207	10287	10164	10219	0.61	cps
Copper	63-2	54496	53947	53619	54021	0.82	cps
Dysprosium	156-1	23036	23166	23550	23250	1.15	cps
Dysprosium	156-2	21373	22324	21620	21773	2.27	cps
Erbium	164-1	19357	19247	19647	19417	1.07	cps
Erbium	164-2	14331	14591	14628	14517	1.12	cps
Gadolinium	160-1	22962	22839	22759	22853	0.45	cps
Gadolinium	160-2	17888	18092	17348	17776	2.16	cps
Holmium	165-1	6693839	6693191	6620027	6669019	0.64	cps
Holmium	165-2	4991380	5002074	4954264	4982572	0.50	cps
Indium	115-1	5582755	5708772	5456185	5582571	2.26	cps
Indium	115-2	2137080	2110079	2075776	2107645	1.46	cps
Iron	56-2	17155817	17046700	16724978	16975832	1.32	cps
Iron	57-2	422576	425084	424243	423968	0.30	cps
Iron	54-2	936583	942734	939949	939755	0.33	cps
Krypton	83-1	383	393	477	418	12.27	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	167950	169956	170211	169372	0.73	cps
Lead	207-1	142108	143830	142498	142812	0.63	cps
Lead	208-1	656461	661737	663553	660584	0.56	cps
Lithium	6-1	388064	392023	391354	390480	0.54	cps
Magnesium	24-2	204200	205002	201666	203623	0.86	cps
Manganese	55-2	405878	404413	400744	403679	0.66	cps
Molybdenum	94-1	20184	20675	20798	20552	1.58	cps
Molybdenum	95-1	663	623	587	624	6.14	cps
Molybdenum	96-1	4521	4557	4664	4581	1.63	cps
Molybdenum	97-1	400	423	443	422	5.14	cps
Molybdenum	98-1	1003	1007	1037	1016	1.81	cps
Neodymium	150-1	45587	45466	45416	45490	0.19	cps
Neodymium	150-2	29204	28983	28629	28939	1.00	cps
Nickel	60-2	6968	7218	7072	7086	1.77	cps
Phosphorus	31-2	1503	1397	1310	1403	6.90	cps
Potassium	39-2	265183	267586	266646	266472	0.45	cps
Rhodium	103-1	5077821	5177705	5144913	5133480	0.99	cps
Rhodium	103-2	3310443	3190839	3128186	3209823	2.88	cps
Scandium	45-1	3070566	3070257	3052614	3064479	0.34	cps
Scandium	45-2	260199	262604	258908	260571	0.72	cps
Selenium	82-1	439	410	332	394	14.06	cps
Selenium	77-2	117	93	67	92	27.13	cps
Selenium	78-2	770	753	803	776	3.28	cps
Silicon	28-1	3468426	3335773	3361010	3388403	2.08	cps
Silver	107-1	257775	262349	261899	260674	0.97	cps
Silver	109-1	246544	248289	247377	247403	0.35	cps
Sodium	23-2	197380	198476	200293	198716	0.74	cps
Strontium	86-1	80509	80890	81306	80902	0.49	cps
Strontium	88-1	706980	721109	708938	712342	1.07	cps
Sulfur	34-1	100249	97891	97599	98580	1.47	cps
Terbium	159-1	6875198	6866261	6959075	6900178	0.74	cps
Terbium	159-2	4924024	4964169	4924043	4937412	0.47	cps
Thallium	203-1	1087	1073	1030	1063	2.79	cps
Thallium	205-1	2414	2434	2294	2380	3.18	cps
Tin	118-1	1027	1090	1140	1086	5.23	cps
Titanium	47-1	21826	22531	21295	21884	2.83	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:31:06	DataFile Name :	032SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	31367	31801	31708	31625	0.72	cps
Vanadium	51-2	39933	39923	39783	39879	0.21	cps
Yttrium	89-1	8374696	8461586	8343070	8393117	0.73	cps
Yttrium	89-2	2350341	2364931	2307825	2341032	1.27	cps
Zinc	66-2	24016	23999	24029	24015	0.06	cps
Zirconium	90-1	53303	54675	55066	54348	1.70	cps
Zirconium	91-1	12315	12252	12362	12310	0.45	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1244577	1261640	1258249	1254822	0.72	cps
Antimony	121-1	357	387	337	360	6.99	cps
Arsenic	75-2	1030	1080	1157	1089	5.86	cps
Barium	135-1	343440	346378	345995	345271	0.46	cps
Barium	137-1	598200	604500	607136	603279	0.76	cps
Beryllium	9-1	747	777	767	763	2.00	cps
Bismuth	209-1	3924977	3977319	3961377	3954557	0.68	cps
Bismuth	209-2	3578769	3581100	3526073	3561981	0.87	cps
Bromine	81-1	34437	35252	35640	35110	1.75	cps
Bromine	81-2	1330	1307	1243	1293	3.47	cps
Cadmium	108-1	107	147	157	137	19.36	cps
Cadmium	106-1	1977	1740	1863	1860	6.36	cps
Cadmium	111-1	2172	2042	2168	2128	3.48	cps
Calcium	43-1	72515	73999	72529	73015	1.17	cps
Calcium	44-1	1163305	1188975	1177751	1176677	1.09	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	66107	65083	66720	65970	1.25	cps
Cobalt	59-2	10317	10610	10340	10423	1.57	cps
Copper	63-2	55874	55432	56623	55976	1.08	cps
Dysprosium	156-1	24328	24638	24625	24530	0.72	cps
Dysprosium	156-2	23380	22538	22872	22930	1.85	cps
Erbium	164-1	19948	20292	20208	20149	0.89	cps
Erbium	164-2	15212	15338	15112	15221	0.75	cps
Gadolinium	160-1	23630	23767	23784	23727	0.35	cps
Gadolinium	160-2	18876	18689	18315	18627	1.53	cps
Holmium	165-1	6580452	6635430	6620751	6612211	0.43	cps
Holmium	165-2	4915738	4864687	4870310	4883578	0.57	cps
Indium	115-1	5617097	5643129	5560429	5606885	0.75	cps
Indium	115-2	2085059	2100968	2068428	2084818	0.78	cps
Iron	56-2	17351984	16717724	16822164	16963958	2.00	cps
Iron	57-2	418617	420647	419774	419679	0.24	cps
Iron	54-2	924096	928959	914421	922492	0.80	cps
Krypton	83-1	383	400	357	380	5.75	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	171227	171572	173131	171977	0.59	cps
Lead	207-1	141936	144758	142660	143118	1.02	cps
Lead	208-1	666702	671300	667968	668657	0.36	cps
Lithium	6-1	374439	381585	377385	377803	0.95	cps
Magnesium	24-2	210844	214131	207943	210973	1.47	cps
Manganese	55-2	402931	404664	399050	402215	0.71	cps
Molybdenum	94-1	30867	22691	22114	25224	19.41	cps
Molybdenum	95-1	600	570	537	569	5.57	cps
Molybdenum	96-1	4597	5061	5610	5089	9.96	cps
Molybdenum	97-1	353	430	337	373	13.33	cps
Molybdenum	98-1	1013	977	993	994	1.85	cps
Neodymium	150-1	47118	48918	48058	48032	1.87	cps
Neodymium	150-2	30807	30209	30513	30510	0.98	cps
Nickel	60-2	7482	7449	7065	7332	3.16	cps
Phosphorus	31-2	1320	1490	1260	1357	8.79	cps
Potassium	39-2	284784	287902	288806	287164	0.73	cps
Rhodium	103-1	5061031	5149878	5070961	5093957	0.96	cps
Rhodium	103-2	3160767	3156503	3160381	3159217	0.07	cps
Scandium	45-1	3025244	3064974	3033877	3041365	0.69	cps
Scandium	45-2	261916	260098	258822	260279	0.60	cps
Selenium	82-1	315	362	451	376	18.29	cps
Selenium	77-2	127	150	117	131	13.04	cps
Selenium	78-2	837	860	803	833	3.42	cps
Silicon	28-1	3940153	3645875	3931820	3839283	4.36	cps
Silver	107-1	252485	253212	254364	253354	0.37	cps
Silver	109-1	239782	239981	242778	240847	0.70	cps
Sodium	23-2	203525	200621	200813	201653	0.81	cps
Strontium	86-1	82034	82047	82992	82358	0.67	cps
Strontium	88-1	717692	728846	724235	723591	0.77	cps
Sulfur	34-1	94154	93795	94882	94277	0.59	cps
Terbium	159-1	6782609	6877189	6885620	6848472	0.84	cps
Terbium	159-2	4866210	4930803	4899952	4898988	0.66	cps
Thallium	203-1	1030	1103	1050	1061	3.57	cps
Thallium	205-1	2407	2590	2294	2430	6.16	cps
Tin	118-1	1133	1020	1043	1066	5.62	cps
Titanium	47-1	26259	33556	25103	28306	16.19	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09DUPDLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 14:34:24	DataFile Name :	033SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	32389	31327	32286	32001	1.83	cps
Vanadium	51-2	41671	41838	41761	41757	0.20	cps
Yttrium	89-1	8214219	8428003	8470650	8370957	1.64	cps
Yttrium	89-2	2294506	2307304	2325105	2308972	0.67	cps
Zinc	66-2	24570	24437	24046	24351	1.12	cps
Zirconium	90-1	59177	58988	59155	59107	0.18	cps
Zirconium	91-1	13199	13139	13748	13362	2.51	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5303598	5383781	5222285	5303221	1.52	cps
Antimony	121-1	2436117	2370740	2371195	2392684	1.57	cps
Arsenic	75-2	138082	137052	134967	136701	1.16	cps
Barium	135-1	3201528	3209230	3130223	3180327	1.37	cps
Barium	137-1	5497080	5486357	5336525	5439987	1.65	cps
Beryllium	9-1	279430	285810	287474	284238	1.49	cps
Bismuth	209-1	3640560	3724058	3667907	3677508	1.16	cps
Bismuth	209-2	3325716	3343032	3281345	3316697	0.96	cps
Bromine	81-1	31226	29777	28842	29948	4.01	cps
Bromine	81-2	127	130	150	136	9.31	cps
Cadmium	108-1	47294	45672	47277	46747	1.99	cps
Cadmium	106-1	66384	66548	65912	66281	0.50	cps
Cadmium	111-1	642631	638323	638576	639843	0.38	cps
Calcium	43-1	3281823	3268098	3218078	3256000	1.03	cps
Calcium	44-1	53295818	52747658	52424996	52822824	0.83	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	972736	975385	972535	973552	0.16	cps
Cobalt	59-2	1581828	1600116	1598294	1593413	0.63	cps
Copper	63-2	10843373	10945809	10661293	10816825	1.33	cps
Dysprosium	156-1	97	93	90	93	3.57	cps
Dysprosium	156-2	197	200	217	204	5.24	cps
Erbium	164-1	117	140	163	140	16.67	cps
Erbium	164-2	143	87	107	112	25.61	cps
Gadolinium	160-1	93	60	113	89	30.31	cps
Gadolinium	160-2	310	327	263	300	10.94	cps
Holmium	165-1	6311168	6420361	6307775	6346435	1.01	cps
Holmium	165-2	4800140	4829287	4843660	4824362	0.46	cps
Indium	115-1	5197002	5091989	4977802	5088931	2.15	cps
Indium	115-2	1884989	1964385	1926784	1925386	2.06	cps
Iron	56-2	227985830	230617223	224578543	227727199	1.33	cps
Iron	57-2	5834786	5737891	5682152	5751610	1.34	cps
Iron	54-2	12581942	12591085	12631034	12601354	0.21	cps
Krypton	83-1	387	327	380	364	9.02	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	9107479	9160453	9268261	9178731	0.89	cps
Lead	207-1	7970822	8073160	8100948	8048310	0.85	cps
Lead	208-1	36061514	36972590	36736257	36590120	1.29	cps
Lithium	6-1	371661	374656	377081	374466	0.72	cps
Magnesium	24-2	44700878	45285144	44175518	44720513	1.24	cps
Manganese	55-2	7995480	8011623	7908979	7972027	0.69	cps
Molybdenum	94-1	8828688	8819514	8686066	8778090	0.91	cps
Molybdenum	95-1	12581177	12677944	12675305	12644808	0.44	cps
Molybdenum	96-1	13773705	13645560	13812438	13743901	0.64	cps
Molybdenum	97-1	7735320	7790071	7786444	7770611	0.39	cps
Molybdenum	98-1	20033375	20292193	20030137	20118568	0.75	cps
Neodymium	150-1	180	183	190	184	2.76	cps
Neodymium	150-2	63	50	50	54	14.14	cps
Nickel	60-2	387607	384772	385046	385808	0.41	cps
Phosphorus	31-2	60128	58916	59160	59401	1.08	cps
Potassium	39-2	29034182	28868233	28851796	28918070	0.35	cps
Rhodium	103-1	4719254	4650460	4571086	4646934	1.60	cps
Rhodium	103-2	2867397	2898294	2826798	2864163	1.25	cps
Scandium	45-1	2916426	2893386	2814572	2874795	1.86	cps
Scandium	45-2	245187	246705	243297	245063	0.70	cps
Selenium	82-1	47651	47227	47040	47306	0.66	cps
Selenium	77-2	5348	5258	5251	5285	1.02	cps
Selenium	78-2	17971	18238	18195	18135	0.79	cps
Silicon	28-1	2545665	2525401	2505603	2525556	0.79	cps
Silver	107-1	3189662	3227820	3184172	3200551	0.74	cps
Silver	109-1	3028539	3034638	3028909	3030695	0.11	cps
Sodium	23-2	72977736	71356366	70647062	71660388	1.67	cps
Strontium	86-1	784310	788496	782137	784981	0.41	cps
Strontium	88-1	7400140	7201407	7208721	7270089	1.55	cps
Sulfur	34-1	305797	299021	296022	300280	1.67	cps
Terbium	159-1	6644898	6624676	6631097	6633557	0.16	cps
Terbium	159-2	4851507	4812695	4771574	4811925	0.83	cps
Thallium	203-1	2278540	2294901	2244687	2272709	1.13	cps
Thallium	205-1	5343609	5417873	5423510	5394997	0.83	cps
Tin	118-1	2128597	2130358	2110141	2123032	0.53	cps
Titanium	47-1	3103996	3088142	3049577	3080572	0.91	cps

Reviewed By:mohan
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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P7
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:51:30	DataFile Name :	034CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	7069109	7328214	7307717	7235014	1.99	cps
Vanadium	51-2	831549	849372	831709	837543	1.22	cps
Yttrium	89-1	7700087	7561846	7686849	7649594	1.00	cps
Yttrium	89-2	2094693	2138284	2116552	2116510	1.03	cps
Zinc	66-2	2011293	2004260	1940714	1985423	1.96	cps
Zirconium	90-1	4277039	4317747	4285686	4293491	0.50	cps
Zirconium	91-1	922425	925043	924842	924104	0.16	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	370	340	420	377	10.73	cps
Antimony	121-1	447	550	520	506	10.52	cps
Arsenic	75-2	10	0	17	9	94.38	cps
Barium	135-1	67	43	63	58	21.85	cps
Barium	137-1	57	67	83	69	19.55	cps
Beryllium	9-1	37	43	43	41	9.35	cps
Bismuth	209-1	3884518	3867286	3885080	3878961	0.26	cps
Bismuth	209-2	3541786	3512587	3514252	3522875	0.47	cps
Bromine	81-1	26891	28110	27225	27409	2.30	cps
Bromine	81-2	167	180	193	180	7.41	cps
Cadmium	108-1	10	3	17	10	66.70	cps
Cadmium	106-1	1630	1577	1423	1543	6.95	cps
Cadmium	111-1	1177	1115	1005	1099	7.95	cps
Calcium	43-1	220	243	243	236	5.72	cps
Calcium	44-1	7078	6968	7175	7074	1.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1023	1047	1053	1041	1.51	cps
Cobalt	59-2	53	97	93	81	29.73	cps
Copper	63-2	2013	2007	2114	2045	2.92	cps
Dysprosium	156-1	0	7	13	7	99.98	cps
Dysprosium	156-2	0	0	0	0	0.00	cps
Erbium	164-1	43	33	13	30	50.92	cps
Erbium	164-2	30	40	33	34	14.78	cps
Gadolinium	160-1	23	10	17	17	39.99	cps
Gadolinium	160-2	240	210	200	217	9.61	cps
Holmium	165-1	6317878	6234363	6260079	6270774	0.68	cps
Holmium	165-2	4810834	4731456	4829916	4790735	1.09	cps
Indium	115-1	5172533	5213573	5247570	5211225	0.72	cps
Indium	115-2	1980586	1980155	1979655	1980132	0.02	cps
Iron	56-2	23963	23746	24026	23911	0.61	cps
Iron	57-2	1123	1243	1140	1169	5.56	cps
Iron	54-2	2534	2417	2367	2439	3.51	cps
Krypton	83-1	317	337	380	344	9.40	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	533	570	623	576	7.86	cps
Lead	207-1	497	490	503	497	1.34	cps
Lead	208-1	2360	2310	2357	2342	1.19	cps
Lithium	6-1	394877	392394	391055	392775	0.49	cps
Magnesium	24-2	993	977	1060	1010	4.37	cps
Manganese	55-2	850	840	933	874	5.86	cps
Molybdenum	94-1	600	453	467	507	16.01	cps
Molybdenum	95-1	327	257	350	311	15.61	cps
Molybdenum	96-1	487	427	420	444	8.26	cps
Molybdenum	97-1	187	197	197	193	2.99	cps
Molybdenum	98-1	550	563	480	531	8.43	cps
Neodymium	150-1	0	3	3	2	86.60	cps
Neodymium	150-2	0	0	0	0	0.00	cps
Nickel	60-2	277	257	283	272	5.10	cps
Phosphorus	31-2	197	167	193	186	8.86	cps
Potassium	39-2	44461	44665	44906	44678	0.50	cps
Rhodium	103-1	4743396	4965498	4819453	4842783	2.33	cps
Rhodium	103-2	3011125	2982527	2989493	2994382	0.50	cps
Scandium	45-1	2841563	2827773	2840161	2836499	0.27	cps
Scandium	45-2	243177	241022	242011	242070	0.45	cps
Selenium	82-1	192	226	201	207	8.58	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	613	603	657	624	4.54	cps
Silicon	28-1	796057	793402	795730	795063	0.18	cps
Silver	107-1	97	90	110	99	10.30	cps
Silver	109-1	70	90	97	86	16.22	cps
Sodium	23-2	15404	15618	15208	15410	1.33	cps
Strontium	86-1	610	527	590	576	7.56	cps
Strontium	88-1	123	153	153	143	12.08	cps
Sulfur	34-1	98354	98521	99125	98667	0.41	cps
Terbium	159-1	6466010	6533814	6567932	6522585	0.80	cps
Terbium	159-2	4798913	4733606	4711769	4748096	0.95	cps
Thallium	203-1	180	203	207	197	7.39	cps
Thallium	205-1	397	410	483	430	10.85	cps
Tin	118-1	703	697	737	712	3.01	cps
Titanium	47-1	80	83	77	80	4.16	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P7
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 14:54:16	DataFile Name :	035CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	87	97	93	92	5.52	cps
Vanadium	51-2	30	20	27	26	19.92	cps
Yttrium	89-1	7477173	7629108	7530888	7545723	1.02	cps
Yttrium	89-2	2163552	2129597	2077608	2123586	2.04	cps
Zinc	66-2	247	327	300	291	13.99	cps
Zirconium	90-1	970	953	753	892	13.51	cps
Zirconium	91-1	160	233	210	201	18.63	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	214712	212411	214036	213720	0.55	cps
Antimony	121-1	160	190	213	188	14.24	cps
Arsenic	75-2	203	257	160	207	23.43	cps
Barium	135-1	61914	64703	64582	63733	2.47	cps
Barium	137-1	111637	111506	112864	112002	0.67	cps
Beryllium	9-1	190	167	180	179	6.54	cps
Bismuth	209-1	3825037	3837192	3883540	3848590	0.80	cps
Bismuth	209-2	3585200	3550777	3526427	3554135	0.83	cps
Bromine	81-1	27907	28270	28621	28266	1.26	cps
Bromine	81-2	423	367	313	368	14.96	cps
Cadmium	108-1	7	17	17	13	43.29	cps
Cadmium	106-1	1670	1593	1497	1587	5.47	cps
Cadmium	111-1	1334	1290	1209	1278	4.96	cps
Calcium	43-1	13583	13443	13940	13655	1.88	cps
Calcium	44-1	223879	225953	227654	225829	0.84	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	12976	13373	12916	13088	1.90	cps
Cobalt	59-2	1873	1890	1977	1913	2.90	cps
Copper	63-2	11798	11198	11778	11591	2.94	cps
Dysprosium	156-1	4537	4604	4367	4503	2.71	cps
Dysprosium	156-2	4127	4291	4247	4222	2.00	cps
Erbium	164-1	3707	3764	3861	3777	2.05	cps
Erbium	164-2	2794	2877	2744	2805	2.40	cps
Gadolinium	160-1	4364	4274	4351	4330	1.12	cps
Gadolinium	160-2	3817	3774	3644	3745	2.41	cps
Holmium	165-1	6299978	6352116	6228187	6293427	0.99	cps
Holmium	165-2	4781038	4811101	4767885	4786675	0.46	cps
Indium	115-1	5252803	5228362	5284087	5255084	0.53	cps
Indium	115-2	2015740	1992003	2014646	2007463	0.67	cps
Iron	56-2	3256528	3201892	3232193	3230204	0.85	cps
Iron	57-2	81959	82475	81007	81813	0.91	cps
Iron	54-2	178515	182449	181019	180661	1.10	cps
Krypton	83-1	357	377	347	360	4.24	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	33100	32673	32709	32827	0.72	cps
Lead	207-1	27194	27428	27852	27491	1.21	cps
Lead	208-1	126565	127553	128410	127509	0.72	cps
Lithium	6-1	382328	383280	378928	381512	0.60	cps
Magnesium	24-2	39130	39313	39036	39160	0.36	cps
Manganese	55-2	84975	85783	85404	85387	0.47	cps
Molybdenum	94-1	4674	4644	4254	4524	5.18	cps
Molybdenum	95-1	200	187	187	191	4.03	cps
Molybdenum	96-1	1207	1220	1167	1198	2.32	cps
Molybdenum	97-1	153	120	113	129	16.63	cps
Molybdenum	98-1	367	287	323	326	12.30	cps
Neodymium	150-1	8486	8653	9733	8957	7.56	cps
Neodymium	150-2	5718	5614	5421	5584	2.70	cps
Nickel	60-2	1530	1583	1560	1558	1.72	cps
Phosphorus	31-2	413	470	383	422	10.42	cps
Potassium	39-2	87543	86568	86672	86927	0.62	cps
Rhodium	103-1	4750502	4813822	4842999	4802441	0.98	cps
Rhodium	103-2	3075288	3023828	3087973	3062363	1.11	cps
Scandium	45-1	2885707	2816758	2811671	2838045	1.46	cps
Scandium	45-2	244862	245984	245344	245397	0.23	cps
Selenium	82-1	246	221	222	230	6.07	cps
Selenium	77-2	23	10	10	14	53.28	cps
Selenium	78-2	670	740	767	726	6.88	cps
Silicon	28-1	1575794	1539760	1537170	1550908	1.39	cps
Silver	107-1	48380	48029	48377	48262	0.42	cps
Silver	109-1	45541	46110	46735	46129	1.29	cps
Sodium	23-2	50576	50884	50449	50636	0.44	cps
Strontium	86-1	15535	15608	15341	15495	0.89	cps
Strontium	88-1	131848	133664	134676	133396	1.07	cps
Sulfur	34-1	101310	101393	100102	100935	0.72	cps
Terbium	159-1	6413528	6570917	6409867	6464771	1.42	cps
Terbium	159-2	4814235	4822084	4816413	4817577	0.08	cps
Thallium	203-1	317	270	280	289	8.50	cps
Thallium	205-1	733	697	693	708	3.14	cps
Tin	118-1	813	800	720	778	6.49	cps
Titanium	47-1	3967	4301	4224	4164	4.19	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09LDLX25	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	25
Date & Time Acquired :	2025-04-11 14:57:38	DataFile Name :	036SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	5895	5845	5898	5879	0.51	cps
Vanadium	51-2	7699	7629	7976	7768	2.36	cps
Yttrium	89-1	7644399	7587831	7662706	7631645	0.51	cps
Yttrium	89-2	2165266	2111158	2174491	2150305	1.59	cps
Zinc	66-2	4827	4874	4577	4760	3.35	cps
Zirconium	90-1	12092	11832	11818	11914	1.29	cps
Zirconium	91-1	2790	2664	2547	2667	4.56	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1357887	1406187	1354301	1372792	2.11	cps
Antimony	121-1	454614	459785	464627	459675	1.09	cps
Arsenic	75-2	1047	967	1040	1018	4.36	cps
Barium	135-1	841665	856788	859124	852526	1.11	cps
Barium	137-1	1462979	1490017	1500124	1484374	1.29	cps
Beryllium	9-1	56599	56800	58376	57258	1.70	cps
Bismuth	209-1	3938463	4042252	3981356	3987357	1.31	cps
Bismuth	209-2	3625638	3675316	3570652	3623869	1.44	cps
Bromine	81-1	32325	33201	33578	33035	1.95	cps
Bromine	81-2	1117	997	1183	1099	8.61	cps
Cadmium	108-1	9310	9293	9797	9467	3.02	cps
Cadmium	106-1	14868	15135	15649	15217	2.61	cps
Cadmium	111-1	131968	135489	137512	134990	2.08	cps
Calcium	43-1	193420	195626	199020	196022	1.44	cps
Calcium	44-1	3180526	3167410	3261817	3203251	1.60	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	250348	248243	244975	247855	1.09	cps
Cobalt	59-2	319822	321400	317779	319667	0.57	cps
Copper	63-2	2254352	2255031	2264538	2257974	0.25	cps
Dysprosium	156-1	21951	21830	22455	22079	1.50	cps
Dysprosium	156-2	20632	21083	19854	20523	3.03	cps
Erbium	164-1	18072	18305	19003	18460	2.62	cps
Erbium	164-2	14034	13910	13560	13835	1.78	cps
Gadolinium	160-1	21353	21089	21974	21472	2.12	cps
Gadolinium	160-2	16570	17341	16446	16786	2.89	cps
Holmium	165-1	6491085	6556395	6610591	6552690	0.91	cps
Holmium	165-2	5038885	5005505	4897361	4980584	1.49	cps
Indium	115-1	5416353	5391286	5484002	5430547	0.88	cps
Indium	115-2	2055887	2067070	2100667	2074541	1.12	cps
Iron	56-2	24350040	24449096	24176870	24325336	0.57	cps
Iron	57-2	601495	605530	604903	603976	0.36	cps
Iron	54-2	1334884	1330142	1311922	1325649	0.91	cps
Krypton	83-1	313	377	350	347	9.17	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1957739	1981845	1965461	1968348	0.63	cps
Lead	207-1	1622650	1625126	1653318	1633698	1.04	cps
Lead	208-1	7762554	7852221	7857992	7824256	0.68	cps
Lithium	6-1	382864	381581	388952	384466	1.02	cps
Magnesium	24-2	2029299	1910100	1931220	1956873	3.25	cps
Manganese	55-2	2016007	1958568	1946573	1973716	1.88	cps
Molybdenum	94-1	805746	813585	813350	810894	0.55	cps
Molybdenum	95-1	848367	860689	860996	856684	0.84	cps
Molybdenum	96-1	966456	978235	981702	975464	0.82	cps
Molybdenum	97-1	533097	537096	542690	537628	0.90	cps
Molybdenum	98-1	1346886	1365173	1382477	1364845	1.30	cps
Neodymium	150-1	42604	43644	43617	43288	1.37	cps
Neodymium	150-2	27537	27540	27333	27470	0.43	cps
Nickel	60-2	87007	85171	85238	85805	1.21	cps
Phosphorus	31-2	1190	1303	1287	1260	4.86	cps
Potassium	39-2	1334456	1267250	1268548	1290085	2.98	cps
Rhodium	103-1	5053749	5081909	5153896	5096518	1.01	cps
Rhodium	103-2	3153047	3116553	3169803	3146468	0.87	cps
Scandium	45-1	3004868	2956365	3028369	2996534	1.23	cps
Scandium	45-2	261861	259650	257954	259822	0.75	cps
Selenium	82-1	10886	10778	10951	10872	0.80	cps
Selenium	77-2	1173	1280	1303	1252	5.54	cps
Selenium	78-2	4477	4607	4751	4612	2.97	cps
Silicon	28-1	6671986	4197887	6696717	5855530	24.52	cps
Silver	107-1	341433	347096	348973	345834	1.14	cps
Silver	109-1	323149	328524	330136	327270	1.12	cps
Sodium	23-2	3032427	2908654	2925504	2955528	2.27	cps
Strontium	86-1	258832	263758	264065	262218	1.12	cps
Strontium	88-1	2356049	2420800	2401358	2392736	1.39	cps
Sulfur	34-1	105712	107511	107297	106840	0.92	cps
Terbium	159-1	6807132	6773990	6792016	6791046	0.24	cps
Terbium	159-2	4937037	4783084	4981425	4900515	2.12	cps
Thallium	203-1	418036	424892	426430	423119	1.06	cps
Thallium	205-1	963314	990869	1006866	987016	2.23	cps
Tin	118-1	358292	364348	365897	362845	1.11	cps
Titanium	47-1	31624	33393	40288	35102	13.04	cps

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Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-10DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:17:05	DataFile Name :	040SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1282505	1313889	1319749	1305381	1.53	cps
Vanadium	51-2	208630	207558	203386	206525	1.34	cps
Yttrium	89-1	8218148	8185870	8285214	8229744	0.62	cps
Yttrium	89-2	2285328	2275906	2266076	2275770	0.42	cps
Zinc	66-2	447224	443511	440936	443890	0.71	cps
Zirconium	90-1	860229	868227	875826	868094	0.90	cps
Zirconium	91-1	187910	193771	194663	192115	1.91	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1427351	1346994	1371035	1381793	2.98	cps
Antimony	121-1	457085	468061	467097	464081	1.31	cps
Arsenic	75-2	1030	957	870	952	8.41	cps
Barium	135-1	849403	868993	864185	860861	1.19	cps
Barium	137-1	1479417	1578331	1560257	1539335	3.42	cps
Beryllium	9-1	56114	57402	57918	57145	1.63	cps
Bismuth	209-1	3946184	3963625	3959795	3956535	0.23	cps
Bismuth	209-2	3583306	3618936	3615960	3606067	0.55	cps
Bromine	81-1	31701	33291	33622	32871	3.12	cps
Bromine	81-2	1180	1180	1340	1233	7.49	cps
Cadmium	108-1	9110	9743	9420	9424	3.36	cps
Cadmium	106-1	15418	15175	15515	15369	1.14	cps
Cadmium	111-1	134996	137318	138253	136856	1.23	cps
Calcium	43-1	195650	197911	198243	197268	0.72	cps
Calcium	44-1	3141731	3234747	3194102	3190193	1.46	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	247017	248992	247918	247975	0.40	cps
Cobalt	59-2	321094	322727	320813	321545	0.32	cps
Copper	63-2	2310074	2272804	2216141	2266340	2.09	cps
Dysprosium	156-1	21603	21894	22221	21906	1.41	cps
Dysprosium	156-2	21240	21046	20565	20950	1.66	cps
Erbium	164-1	18035	18629	18452	18372	1.66	cps
Erbium	164-2	13974	14007	14174	14052	0.76	cps
Gadolinium	160-1	21123	22498	21830	21817	3.15	cps
Gadolinium	160-2	17558	17137	17207	17301	1.30	cps
Holmium	165-1	6472003	6638480	6574562	6561681	1.28	cps
Holmium	165-2	5078650	5004876	4982267	5021931	1.00	cps
Indium	115-1	5471155	5473742	5508773	5484557	0.38	cps
Indium	115-2	2066564	2077650	2040551	2061588	0.92	cps
Iron	56-2	24458987	24460842	24252499	24390776	0.49	cps
Iron	57-2	608184	610875	605549	608203	0.44	cps
Iron	54-2	1340862	1351916	1331249	1341342	0.77	cps
Krypton	83-1	373	370	447	397	10.92	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1921266	1996881	2002052	1973400	2.29	cps
Lead	207-1	1628904	1680657	1669534	1659698	1.64	cps
Lead	208-1	7673534	8030012	7952368	7885305	2.38	cps
Lithium	6-1	383670	388080	386931	386227	0.59	cps
Magnesium	24-2	1944051	1940824	1979381	1954752	1.09	cps
Manganese	55-2	2040045	2029747	1953011	2007601	2.37	cps
Molybdenum	94-1	806129	828294	819012	817812	1.36	cps
Molybdenum	95-1	843465	863526	867661	858217	1.51	cps
Molybdenum	96-1	968931	991945	996137	985671	1.49	cps
Molybdenum	97-1	532897	543286	547751	541311	1.41	cps
Molybdenum	98-1	1368060	1429264	1435605	1410977	2.64	cps
Neodymium	150-1	42109	43424	43503	43012	1.82	cps
Neodymium	150-2	28315	28172	28248	28245	0.25	cps
Nickel	60-2	85928	86618	85486	86010	0.66	cps
Phosphorus	31-2	1297	1320	1273	1297	1.80	cps
Potassium	39-2	1310819	1317158	1328648	1318875	0.69	cps
Rhodium	103-1	4962217	5151072	5060487	5057925	1.87	cps
Rhodium	103-2	3147310	3131677	3114799	3131262	0.52	cps
Scandium	45-1	3008455	3072625	3048003	3043028	1.06	cps
Scandium	45-2	254858	258322	256100	256426	0.68	cps
Selenium	82-1	10632	11025	11069	10908	2.20	cps
Selenium	77-2	1253	1360	1277	1297	4.32	cps
Selenium	78-2	4981	4541	4641	4721	4.89	cps
Silicon	28-1	4630004	6692797	4753338	5358713	21.59	cps
Silver	107-1	342570	351927	351185	348561	1.49	cps
Silver	109-1	326410	330930	334666	330668	1.25	cps
Sodium	23-2	2955479	2988642	2920754	2954958	1.15	cps
Strontium	86-1	258761	266774	269062	264865	2.04	cps
Strontium	88-1	2437106	2401559	2419542	2419402	0.73	cps
Sulfur	34-1	100025	101001	99766	100264	0.65	cps
Terbium	159-1	6742577	6891328	6895816	6843240	1.27	cps
Terbium	159-2	4978515	4863769	4910880	4917721	1.17	cps
Thallium	203-1	421118	433622	430201	428313	1.51	cps
Thallium	205-1	974314	1005568	1014226	998036	2.10	cps
Tin	118-1	360151	370992	371216	367453	1.72	cps
Titanium	47-1	35022	41997	36913	37977	9.50	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-11DLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:20:11	DataFile Name :	041SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1284832	1331808	1338572	1318404	2.22	cps
Vanadium	51-2	207058	207690	206992	207247	0.19	cps
Yttrium	89-1	8258658	8296186	8245274	8266706	0.32	cps
Yttrium	89-2	2288198	2285687	2267722	2280536	0.49	cps
Zinc	66-2	450354	448432	445184	447990	0.58	cps
Zirconium	90-1	862505	877407	884589	874834	1.29	cps
Zirconium	91-1	192766	195717	197619	195368	1.25	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1381562	1397194	1344172	1374310	1.98	cps
Antimony	121-1	457106	463877	468531	463171	1.24	cps
Arsenic	75-2	1023	1063	1147	1078	5.84	cps
Barium	135-1	843841	858696	875486	859341	1.84	cps
Barium	137-1	1470876	1498375	1521383	1496878	1.69	cps
Beryllium	9-1	56074	55723	56673	56157	0.86	cps
Bismuth	209-1	3991679	3982418	4100984	4025027	1.64	cps
Bismuth	209-2	3728116	3653422	3613442	3664993	1.59	cps
Bromine	81-1	32620	32299	33852	32923	2.49	cps
Bromine	81-2	1190	1300	1140	1210	6.76	cps
Cadmium	108-1	9680	9263	9503	9482	2.21	cps
Cadmium	106-1	15175	15201	15742	15373	2.08	cps
Cadmium	111-1	135260	137044	137032	136445	0.75	cps
Calcium	43-1	192601	196389	197387	195459	1.29	cps
Calcium	44-1	3179526	3166113	3242420	3196020	1.27	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	251786	250947	249020	250584	0.57	cps
Cobalt	59-2	325303	323140	319460	322634	0.92	cps
Copper	63-2	2316550	2355028	2293417	2321665	1.34	cps
Dysprosium	156-1	21406	22161	22445	22004	2.44	cps
Dysprosium	156-2	20408	20291	21179	20626	2.34	cps
Erbium	164-1	18018	18873	18365	18419	2.33	cps
Erbium	164-2	13974	14010	13700	13895	1.22	cps
Gadolinium	160-1	21487	21644	21687	21606	0.49	cps
Gadolinium	160-2	17751	17438	17728	17639	0.99	cps
Holmium	165-1	6544557	6693038	6676739	6638111	1.23	cps
Holmium	165-2	4970410	5061017	4982954	5004794	0.98	cps
Indium	115-1	5594886	5551856	5467365	5538035	1.17	cps
Indium	115-2	2106038	2086707	2076689	2089811	0.71	cps
Iron	56-2	24505956	24382593	24604199	24497583	0.45	cps
Iron	57-2	613146	611148	603869	609388	0.80	cps
Iron	54-2	1349548	1369926	1338759	1352744	1.17	cps
Krypton	83-1	410	327	433	390	14.38	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	1964897	1992905	2006751	1988184	1.07	cps
Lead	207-1	1619237	1640446	1674303	1644662	1.69	cps
Lead	208-1	7762561	7889296	7923965	7858607	1.08	cps
Lithium	6-1	383666	384080	391371	386372	1.12	cps
Magnesium	24-2	1953199	1971574	1967644	1964139	0.49	cps
Manganese	55-2	1978131	2004287	1988392	1990270	0.66	cps
Molybdenum	94-1	801581	832520	825194	819765	1.97	cps
Molybdenum	95-1	842848	857425	873895	858056	1.81	cps
Molybdenum	96-1	967918	977206	987198	977441	0.99	cps
Molybdenum	97-1	528572	544731	543948	539083	1.69	cps
Molybdenum	98-1	1356178	1401578	1384473	1380743	1.66	cps
Neodymium	150-1	42741	43403	44172	43439	1.65	cps
Neodymium	150-2	28185	27627	28210	28007	1.18	cps
Nickel	60-2	86833	87088	87584	87168	0.44	cps
Phosphorus	31-2	1317	1377	1340	1345	2.25	cps
Potassium	39-2	1329489	1351722	1310314	1330509	1.56	cps
Rhodium	103-1	5066961	5092296	5078400	5079219	0.25	cps
Rhodium	103-2	3135870	3201769	3153433	3163691	1.08	cps
Scandium	45-1	2997679	2954866	3102293	3018279	2.51	cps
Scandium	45-2	260233	263577	259612	261141	0.82	cps
Selenium	82-1	10794	10716	10764	10758	0.37	cps
Selenium	77-2	1270	1353	1237	1287	4.67	cps
Selenium	78-2	4818	4711	4584	4704	2.48	cps
Silicon	28-1	4555904	4765377	5970909	5097397	14.98	cps
Silver	107-1	343925	349155	351819	348300	1.15	cps
Silver	109-1	324984	327266	331875	328042	1.07	cps
Sodium	23-2	2989765	2925687	2955028	2956826	1.08	cps
Strontium	86-1	258333	264634	266501	263156	1.63	cps
Strontium	88-1	2333000	2393591	2405787	2377459	1.64	cps
Sulfur	34-1	100078	98773	100373	99741	0.85	cps
Terbium	159-1	6815694	6765053	6889582	6823443	0.92	cps
Terbium	159-2	5109747	4909002	4946632	4988460	2.14	cps
Thallium	203-1	420883	431911	435358	429384	1.76	cps
Thallium	205-1	975014	993137	1011232	993128	1.82	cps
Tin	118-1	363632	369066	372394	368364	1.20	cps
Titanium	47-1	42108	30117	30366	34197	20.04	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	Q1769-09ADLX5	Instrumnet Name :	P7
Client Sample ID :	S-873-KI-SO-1.0-1.5-040	Dilution Factor :	5
Date & Time Acquired :	2025-04-11 15:23:17	DataFile Name :	042SMPL.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	1296280	1324154	1336195	1318876	1.55	cps
Vanadium	51-2	209772	209731	209026	209510	0.20	cps
Yttrium	89-1	8264348	8481702	8275417	8340489	1.47	cps
Yttrium	89-2	2352558	2335001	2316514	2334691	0.77	cps
Zinc	66-2	453114	454575	441364	449684	1.61	cps
Zirconium	90-1	850289	873901	880768	868319	1.84	cps
Zirconium	91-1	191112	195509	199166	195262	2.07	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5215381	5190038	5176637	5194019	0.38	cps
Antimony	121-1	2332500	2340483	2351795	2341592	0.41	cps
Arsenic	75-2	134802	134927	135287	135005	0.19	cps
Barium	135-1	3097187	3114064	3086059	3099103	0.45	cps
Barium	137-1	5210221	5304944	5361085	5292084	1.44	cps
Beryllium	9-1	267207	276726	275070	273001	1.86	cps
Bismuth	209-1	3519226	3644847	3574981	3579685	1.76	cps
Bismuth	209-2	3288733	3240345	3208274	3245784	1.25	cps
Bromine	81-1	29192	28818	29296	29102	0.86	cps
Bromine	81-2	157	127	153	146	11.30	cps
Cadmium	108-1	44234	45481	43986	44567	1.80	cps
Cadmium	106-1	64757	63946	65775	64826	1.41	cps
Cadmium	111-1	615100	628629	631734	625154	1.41	cps
Calcium	43-1	3148782	3162209	3185781	3165591	0.59	cps
Calcium	44-1	50959034	51979294	52000458	51646262	1.15	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	949676	948911	951138	949908	0.12	cps
Cobalt	59-2	1557364	1544875	1560487	1554242	0.53	cps
Copper	63-2	10720848	10789724	10476563	10662378	1.54	cps
Dysprosium	156-1	83	97	113	98	15.38	cps
Dysprosium	156-2	210	183	187	193	7.51	cps
Erbium	164-1	140	153	110	134	16.51	cps
Erbium	164-2	117	107	93	106	11.09	cps
Gadolinium	160-1	117	100	90	102	13.18	cps
Gadolinium	160-2	270	260	273	268	2.59	cps
Holmium	165-1	6299997	6294927	6363287	6319404	0.60	cps
Holmium	165-2	4723430	4775129	4661361	4719973	1.21	cps
Indium	115-1	5064016	5095567	5046049	5068544	0.49	cps
Indium	115-2	1922725	1897578	1911547	1910617	0.66	cps
Iron	56-2	225288037	227409230	222465243	225054170	1.10	cps
Iron	57-2	5580165	5623254	5498696	5567372	1.14	cps
Iron	54-2	12340907	12407814	12309325	12352682	0.41	cps
Krypton	83-1	363	337	353	351	3.84	cps

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	8719236	9057010	8846241	8874162	1.92	cps
Lead	207-1	7824998	7968157	8024426	7939194	1.30	cps
Lead	208-1	34826391	36116209	35933341	35625314	1.96	cps
Lithium	6-1	361607	366342	369484	365811	1.08	cps
Magnesium	24-2	44184734	43556681	43805658	43849024	0.72	cps
Manganese	55-2	7823949	7937921	7808812	7856894	0.90	cps
Molybdenum	94-1	8423004	8629993	8694750	8582582	1.65	cps
Molybdenum	95-1	12316511	12500243	12312840	12376531	0.87	cps
Molybdenum	96-1	13382969	13528690	13436488	13449382	0.55	cps
Molybdenum	97-1	7496477	7610195	7577519	7561397	0.77	cps
Molybdenum	98-1	19439992	19739140	19735311	19638147	0.87	cps
Neodymium	150-1	140	137	207	161	24.51	cps
Neodymium	150-2	57	37	97	63	48.24	cps
Nickel	60-2	382500	380794	375676	379657	0.94	cps
Phosphorus	31-2	57123	58257	57779	57720	0.99	cps
Potassium	39-2	28700493	28508229	28608900	28605874	0.34	cps
Rhodium	103-1	4575455	4639143	4612405	4609001	0.69	cps
Rhodium	103-2	2888644	2847694	2803691	2846676	1.49	cps
Scandium	45-1	2838662	2829188	2813044	2826965	0.46	cps
Scandium	45-2	242963	244378	242648	243329	0.38	cps
Selenium	82-1	46570	46948	46529	46682	0.50	cps
Selenium	77-2	5164	5318	5254	5245	1.47	cps
Selenium	78-2	17751	18578	18095	18141	2.29	cps
Silicon	28-1	2453408	2487778	2537933	2493040	1.71	cps
Silver	107-1	3081084	3148519	3131955	3120519	1.13	cps
Silver	109-1	2992577	2998546	3012720	3001281	0.34	cps
Sodium	23-2	70647391	71021429	69896741	70521853	0.81	cps
Strontium	86-1	765499	777710	770863	771357	0.79	cps
Strontium	88-1	7042564	7056269	7169920	7089585	0.99	cps
Sulfur	34-1	293586	292484	289012	291694	0.82	cps
Terbium	159-1	6452322	6514211	6602012	6522848	1.15	cps
Terbium	159-2	4707488	4704502	4684204	4698731	0.27	cps
Thallium	203-1	2218805	2209973	2245799	2224859	0.84	cps
Thallium	205-1	5140869	5289859	5269638	5233455	1.54	cps
Tin	118-1	2066338	2113641	2042748	2074242	1.74	cps
Titanium	47-1	2982775	3035551	3069398	3029241	1.44	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P7
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:36:36	DataFile Name :	043CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	6975134	7132267	7090511	7065971	1.15	cps
Vanadium	51-2	827910	828420	828320	828217	0.03	cps
Yttrium	89-1	7608730	7631325	7643144	7627733	0.23	cps
Yttrium	89-2	2114810	2154032	2093976	2120939	1.44	cps
Zinc	66-2	1980870	1974139	1907247	1954085	2.08	cps
Zirconium	90-1	4112874	4256099	4247212	4205395	1.91	cps
Zirconium	91-1	891338	908931	908414	902894	1.11	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	393	353	397	381	6.33	cps
Antimony	121-1	367	307	500	391	25.30	cps
Arsenic	75-2	7	17	17	13	43.29	cps
Barium	135-1	20	20	47	29	53.30	cps
Barium	137-1	87	73	107	89	18.88	cps
Beryllium	9-1	47	33	40	40	16.68	cps
Bismuth	209-1	3774256	3756712	3775921	3768963	0.28	cps
Bismuth	209-2	3541848	3426300	3486114	3484754	1.66	cps
Bromine	81-1	27118	26815	26721	26885	0.77	cps
Bromine	81-2	170	157	157	161	4.78	cps
Cadmium	108-1	13	20	10	14	35.26	cps
Cadmium	106-1	1477	1267	1333	1359	7.90	cps
Cadmium	111-1	1031	903	963	966	6.65	cps
Calcium	43-1	237	237	223	232	3.31	cps
Calcium	44-1	6702	6498	7142	6781	4.85	cps
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	583	683	637	634	7.89	cps
Cobalt	59-2	70	83	90	81	12.55	cps
Copper	63-2	1703	1910	1690	1768	6.98	cps
Dysprosium	156-1	3	0	3	2	86.60	cps
Dysprosium	156-2	0	0	3	1	173.21	cps
Erbium	164-1	30	20	47	32	41.81	cps
Erbium	164-2	27	17	20	21	24.12	cps
Gadolinium	160-1	37	7	27	23	65.46	cps
Gadolinium	160-2	233	237	250	240	3.68	cps
Holmium	165-1	6031972	6140840	6198697	6123836	1.38	cps
Holmium	165-2	4799396	4638485	4603619	4680500	2.23	cps
Indium	115-1	5165514	5164962	5242631	5191036	0.86	cps
Indium	115-2	2014951	1979621	2013643	2002738	1.00	cps
Iron	56-2	21165	20885	21459	21169	1.36	cps
Iron	57-2	1107	1083	1067	1086	1.85	cps
Iron	54-2	2220	2397	2234	2284	4.31	cps
Krypton	83-1	320	320	410	350	14.85	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	206-1	483	540	497	507	5.85	cps
Lead	207-1	470	457	417	448	6.20	cps
Lead	208-1	2080	2130	2080	2097	1.38	cps
Lithium	6-1	363412	364863	365115	364463	0.25	cps
Magnesium	24-2	700	743	793	746	6.26	cps
Manganese	55-2	780	883	893	852	7.36	cps
Molybdenum	94-1	357	363	370	363	1.84	cps
Molybdenum	95-1	163	130	210	168	23.95	cps
Molybdenum	96-1	303	317	380	333	12.29	cps
Molybdenum	97-1	120	117	137	124	8.61	cps
Molybdenum	98-1	243	253	370	289	24.38	cps
Neodymium	150-1	3	0	0	1	173.21	cps
Neodymium	150-2	3	3	0	2	86.60	cps
Nickel	60-2	117	163	143	141	16.59	cps
Phosphorus	31-2	173	183	230	196	15.47	cps
Potassium	39-2	43826	44505	44705	44346	1.04	cps
Rhodium	103-1	4764310	4813892	4848508	4808903	0.88	cps
Rhodium	103-2	3009880	3066322	3000037	3025413	1.18	cps
Scandium	45-1	2772838	2792612	2788324	2784591	0.37	cps
Scandium	45-2	237630	240207	242031	239956	0.92	cps
Selenium	82-1	285	199	194	226	22.74	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	790	770	687	749	7.32	cps
Silicon	28-1	816179	812207	809592	812659	0.41	cps
Silver	107-1	70	47	130	82	52.28	cps
Silver	109-1	73	57	57	62	15.46	cps
Sodium	23-2	15057	15094	14667	14940	1.58	cps
Strontium	86-1	517	527	577	540	5.95	cps
Strontium	88-1	117	130	130	126	6.13	cps
Sulfur	34-1	94835	95043	96103	95327	0.71	cps
Terbium	159-1	6313935	6440567	6408722	6387741	1.03	cps
Terbium	159-2	4740667	4672262	4615086	4676005	1.34	cps
Thallium	203-1	197	193	253	214	15.72	cps
Thallium	205-1	420	477	453	450	6.33	cps
Tin	118-1	583	747	643	658	12.56	cps
Titanium	47-1	47	60	87	64	31.60	cps

Reviewed By:mohan
On:4/15/2025 1:08:59 PM
Inst Id :P7
LB :LB135403

LB Number :	LB135403	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P7
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-04-11 15:41:09	DataFile Name :	044CCBE.d

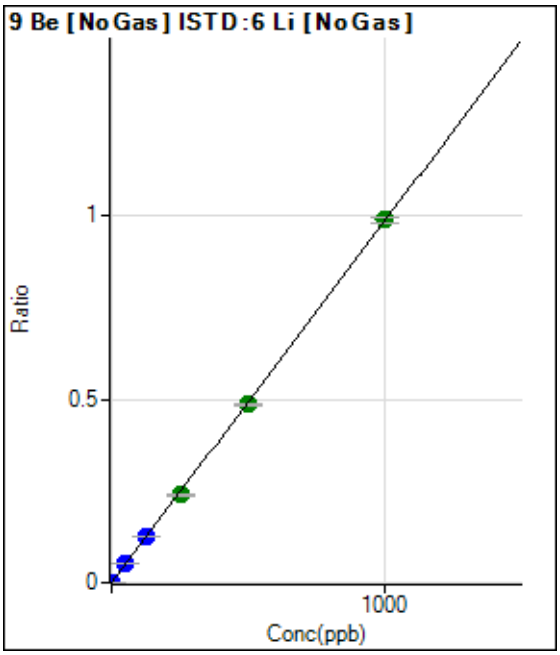
Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Uranium	238-1	60	70	63	64	7.90	cps
Vanadium	51-2	13	20	33	22	45.83	cps
Yttrium	89-1	7451612	7537099	7526748	7505153	0.62	cps
Yttrium	89-2	2150958	2143061	2133133	2142384	0.42	cps
Zinc	66-2	193	237	220	217	10.09	cps
Zirconium	90-1	673	750	807	743	9.00	cps
Zirconium	91-1	90	113	170	124	33.06	cps

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051325MS.b\
Analysis File: P8051325MS.batch.bin
DA Date-Time: 2025-05-13 18:53:31
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-05-13 14:58:49
2	006CALS.d	S02	2025-05-13 15:05:31
3	007CALB.d	S03	2025-05-13 15:08:50
4	008CALS.d	S04	2025-05-13 15:16:31
5	009CALS.d	S05	2025-05-13 15:19:28
6	010CALS.d	S06	2025-05-13 15:22:16
7	011CALS.d	S07	2025-05-13 15:25:03
8	012CALS.d	S08	2025-05-13 15:27:48

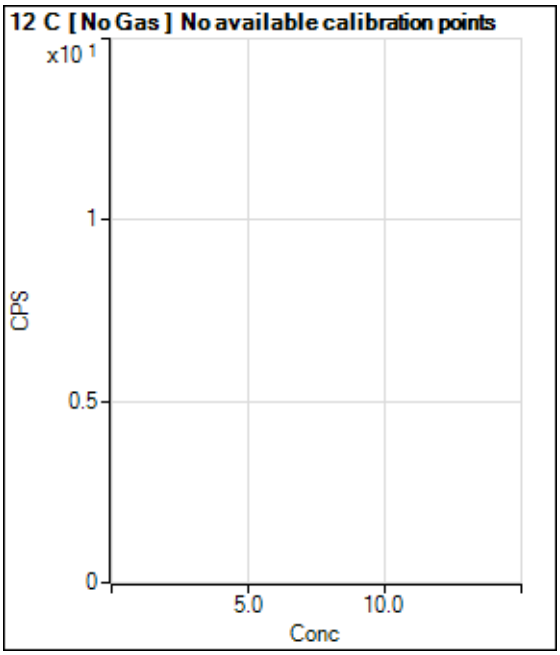
Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.65	0.0000	P	10.8
2	☐	1.000	1.207	6834.08	0.0012	P	1.3
3	☐	50.000	53.187	295483.66	0.0524	P	1.2
4	☐	125.000	127.845	690018.42	0.1260	P	0.6
5	☐	250.000	244.260	1309978.55	0.2408	A	2.0
6	☐	500.000	494.382	2595961.29	0.4873	A	1.1
7	☐	1000.000	1003.729	4999612.97	0.9893	A	1.9
8	☐			622.85	0.0001	P	7.3

y = 9.8558E-004 * x + 2.8223E-005
R = 0.9999
DL = 0.009239
BEC = 0.02864

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
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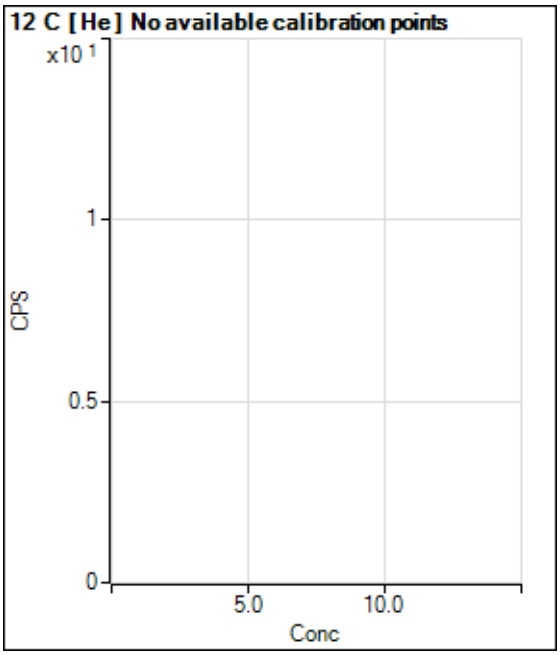
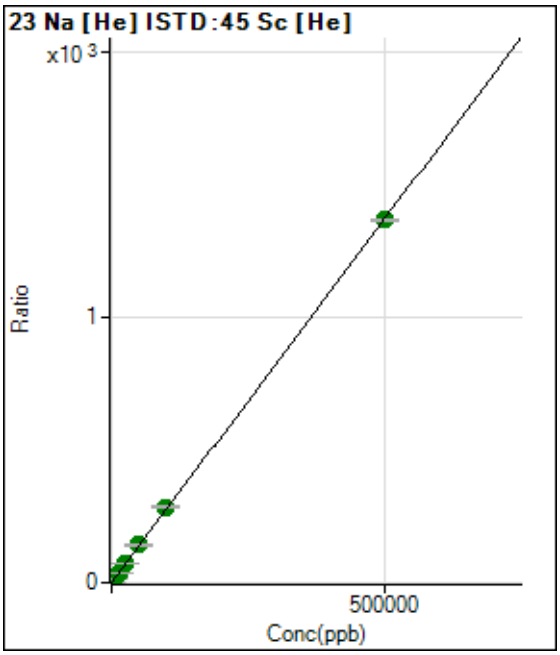
2	☐			3558747.76		A	0.7
3	☐			3672983.87		A	0.9
4	☐			3645157.83		A	1.4
5	☐			3688682.27		A	0.2
6	☐			3856395.26		A	1.5
7	☐			4241691.74		A	0.7
8	☐			3658166.40		A	0.5

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			23207.27		P	0.2
2	☐			23932.90		P	2.2
3	☐			24172.19		P	2.5
4	☐			24073.07		P	2.2
5	☐			25158.33		P	0.6
6	☐			27113.93		P	0.5
7	☐			30871.31		P	1.5
8	☐			32080.57		P	1.2



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20029.39	0.1097	P	1.9
2	☐	500.000	578.436	312049.14	1.6961	P	0.9
3	☐	5000.000	5164.908	2593112.93	14.2752	A	0.3
4	☐	12500.000	12498.135	6099506.99	34.3877	A	1.3
5	☐	25000.000	25415.218	12277679.96	69.8147	A	2.1
6	☐	50000.000	51754.012	24604341.58	142.0528	A	1.4
7	☐	100000.00	104365.47	49666256.48	286.3476	A	0.8
8	☐	500000.00	498929.06	220457838.9	1,368.497	A	0.2

y = 0.0027 * x + 0.1097
R = 1.0000
DL = 2.263
BEC = 39.99

Weight: <None>
Min Conc: 0

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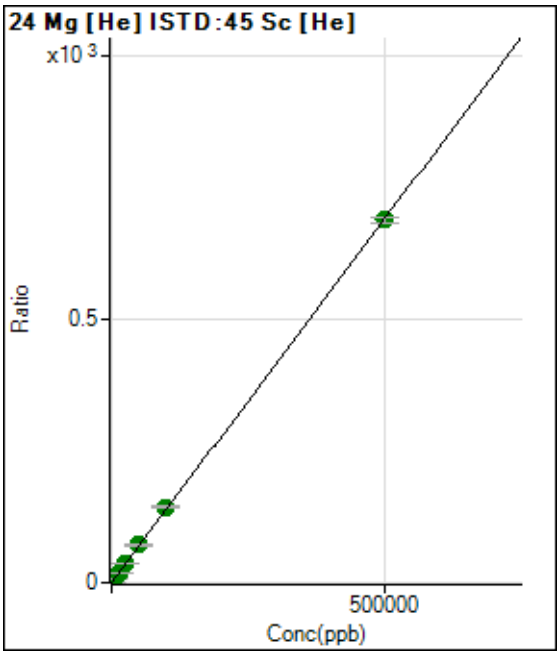
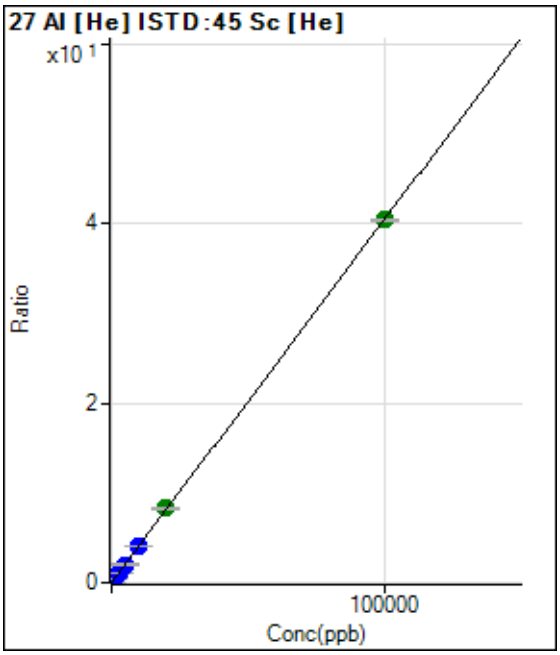


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	854.48	0.0047	P	22.9
2	☐	500.000	585.243	149715.01	0.8138	P	0.6
3	☐	5000.000	5297.727	1331237.04	7.3291	A	2.2
4	☐	12500.000	12722.772	3120824.99	17.5945	A	1.3
5	☐	25000.000	25637.497	6234283.66	35.4498	A	1.9
6	☐	50000.000	51787.870	12402296.62	71.6040	A	1.3
7	☐	100000.00	104399.31	25035823.52	144.3419	A	0.7
8	☐	500000.00	498900.84	111111866.1	689.7599	A	1.9

y = 0.0014 * x + 0.0047
R = 1.0000
DL = 2.329
BEC = 3.385

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0007	P	12.6
2	☐	20.000	20.507	1645.67	0.0089	P	4.4
3	☐	1000.000	1015.358	74680.51	0.4111	P	1.3
4	☐	2500.000	2480.581	177982.67	1.0034	P	0.7
5	☐	5000.000	4997.929	355392.67	2.0209	P	2.3
6	☐	10000.000	10065.246	704831.33	4.0693	P	1.5
7	☐	20000.000	20468.253	1435174.03	8.2745	A	1.2
8	☐	100000.00	99900.260	6505497.96	40.3829	A	0.4

y = 4.0423E-004 * x + 6.5744E-004
R = 1.0000
DL = 0.6141
BEC = 1.626

Weight: <None>
Min Conc: 0

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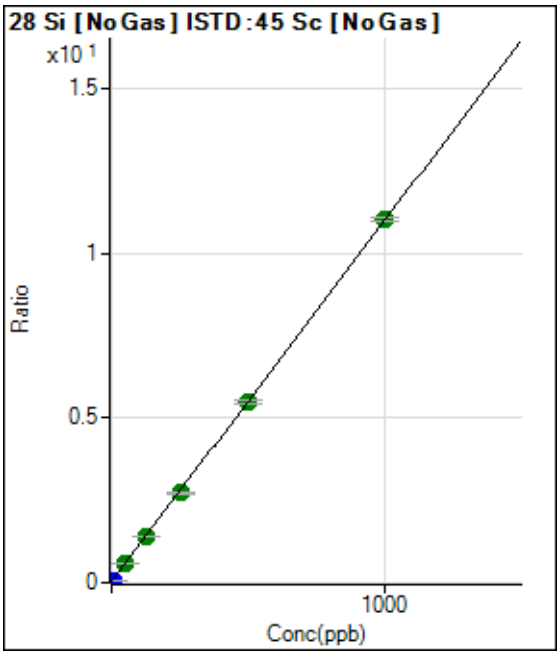
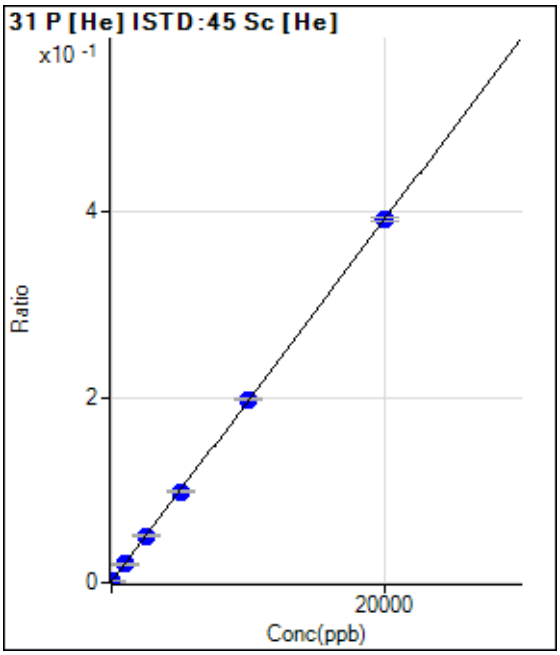


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	461970.89	0.0452	P	0.9
2	☐	10.000	0.933	568893.56	0.0554	P	2.4
3	☐	50.000	50.462	6142571.99	0.5970	A	1.8
4	☐	125.000	123.524	13888261.32	1.3958	A	1.2
5	☐	250.000	244.413	27253480.15	2.7176	A	1.8
6	☐	500.000	498.554	53309077.54	5.4964	A	1.9
7	☐	1000.000	1002.372	103999459.5	11.0052	A	1.2
8	☐			653995.66	0.0732	P	3.9

y = 0.0109 * x + 0.0452
R = 1.0000
DL = 0.1093
BEC = 4.134

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.467	112.22	0.0006	P	27.7
2	☐	0.000	13.467	210.00	0.0011	P	6.9
3	☐	1000.000	976.181	3627.16	0.0200	P	3.5
4	☐	2500.000	2513.071	8873.90	0.0500	P	3.3
5	☐	5000.000	4952.468	17190.30	0.0977	P	2.1
6	☐	10000.000	10070.910	34267.12	0.1978	P	0.6
7	☐	20000.000	19975.985	67910.09	0.3915	P	1.0
8	☐			127.78	0.0008	P	10.2

y = 1.9556E-005 * x + 8.7868E-004
R = 1.0000
DL = 19.07
BEC = 44.93

Weight: <None>
Min Conc: 0

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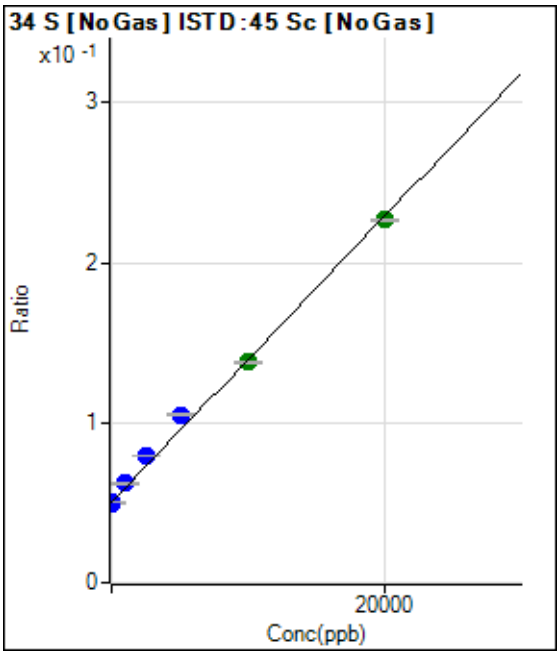
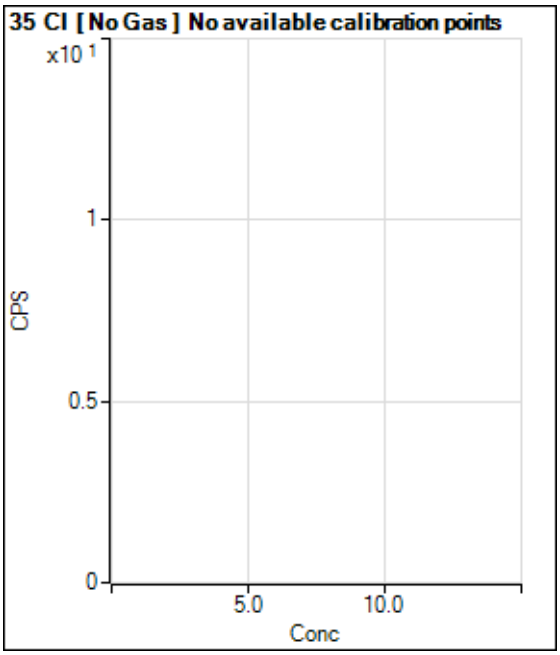


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-60.337	507671.13	0.0497	P	1.1
2	☐	0.000	60.337	521099.44	0.0508	P	0.3
3	☐	1000.000	1346.914	640649.83	0.0623	P	1.4
4	☐	2500.000	3235.853	787544.61	0.0792	P	0.7
5	☐	5000.000	6097.342	1050468.41	0.1047	P	0.8
6	☐	10000.000	9772.803	1334730.84	0.1376	A	1.4
7	☐	20000.000	19729.936	2142103.79	0.2267	A	0.7
8	☐			437799.11	0.0490	P	0.4

y = 8.9435E-006 * x + 0.0502
R = 0.9978
DL = 112.7
BEC = 5615

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			93331.37		P	0.3
2	☐			98184.36		P	0.9
3	☐			101681.29		P	0.5
4	☐			116315.96		P	1.6
5	☐			117082.96		P	1.1
6	☐			134773.84		P	1.2
7	☐			168550.50		P	3.0
8	☐			126925.88		P	0.9

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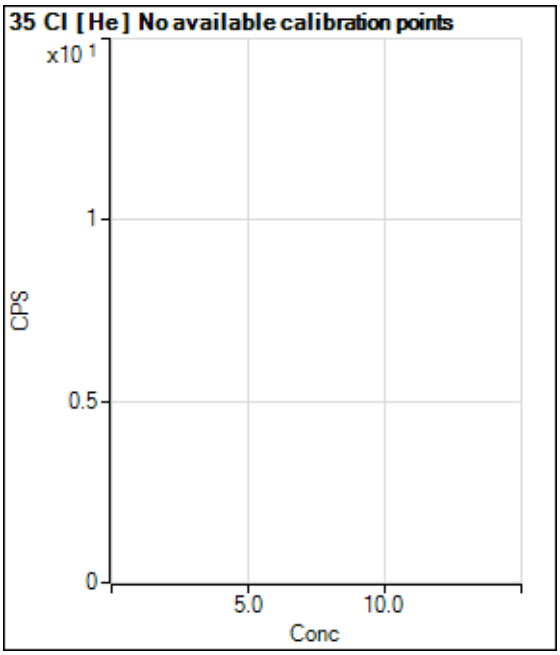
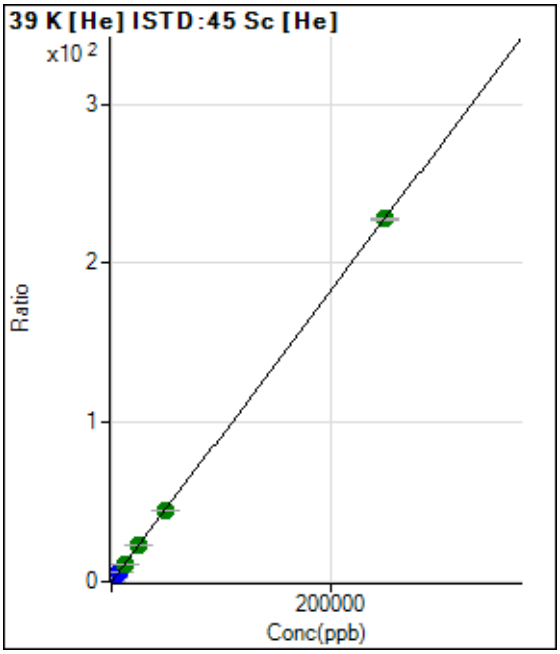


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			306.67		P	11.3
2	☐			337.79		P	14.0
3	☐			330.01		P	5.0
4	☐			390.01		P	9.9
5	☐			390.01		P	13.2
6	☐			436.68		P	17.9
7	☐			576.68		P	9.6
8	☐			464.46		P	11.4



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10739.64	0.0588	P	1.1
2	☐	500.000	532.812	100116.49	0.5442	P	1.6
3	☐	2500.000	2456.079	417135.98	2.2964	P	0.6
4	☐	6250.000	6054.509	988848.79	5.5747	P	0.7
5	☐	12500.000	12141.766	1955834.87	11.1205	A	1.4
6	☐	25000.000	24799.380	3923393.73	22.6521	A	1.9
7	☐	50000.000	49269.909	7795828.21	44.9458	A	0.7
8	☐	250000.00	250189.25	36728763.90	227.9921	A	0.3

y = 9.1104E-004 * x + 0.0588
R = 1.0000
DL = 2.192
BEC = 64.56

Weight: <None>
Min Conc: 0

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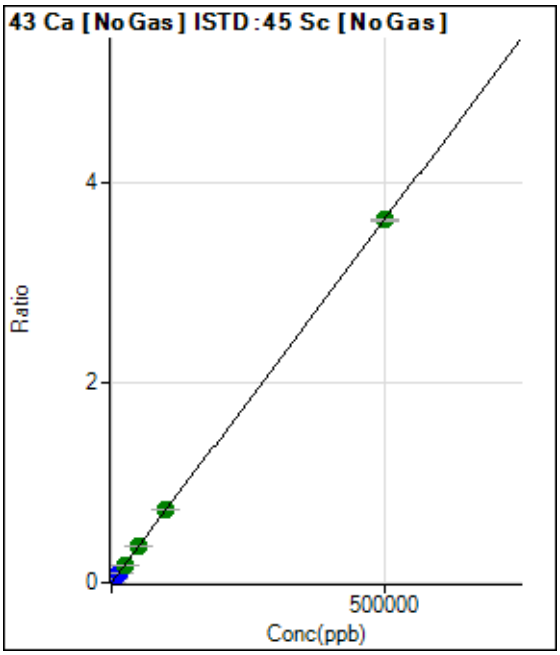
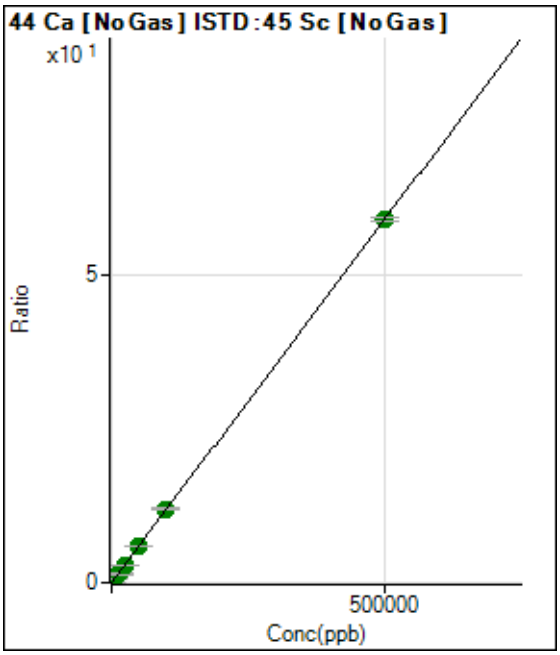


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1023.38	0.0001	P	9.2
2	☐	500.000	554.932	42337.63	0.0041	P	0.8
3	☐	5000.000	4928.901	368767.54	0.0358	P	1.0
4	☐	12500.000	12000.834	866706.55	0.0871	P	1.1
5	☐	25000.000	24297.845	1767781.78	0.1763	A	1.0
6	☐	50000.000	50238.799	3533864.91	0.3644	A	1.3
7	☐	100000.00	101027.10	6923315.87	0.7326	A	0.6
8	☐	500000.00	499818.94	32397894.52	3.6240	A	0.4

y = 7.2505E-006 * x + 1.0010E-004
R = 1.0000
DL = 3.799
BEC = 13.81

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23168.30	0.0023	P	1.4
2	☐	500.000	547.000	685591.24	0.0668	P	0.7
3	☐	5000.000	4854.567	5914766.09	0.5748	A	0.5
4	☐	12500.000	11950.606	14044437.71	1.4116	A	1.6
5	☐	25000.000	24057.757	28475867.63	2.8394	A	0.9
6	☐	50000.000	49687.887	56856184.71	5.8620	A	1.2
7	☐	100000.00	101648.30	113308011.6	11.9898	A	1.5
8	☐	500000.00	499763.80	526905956.5	58.9403	A	0.9

y = 1.1793E-004 * x + 0.0023
R = 1.0000
DL = 0.8226
BEC = 19.22

Weight: <None>
Min Conc: 0

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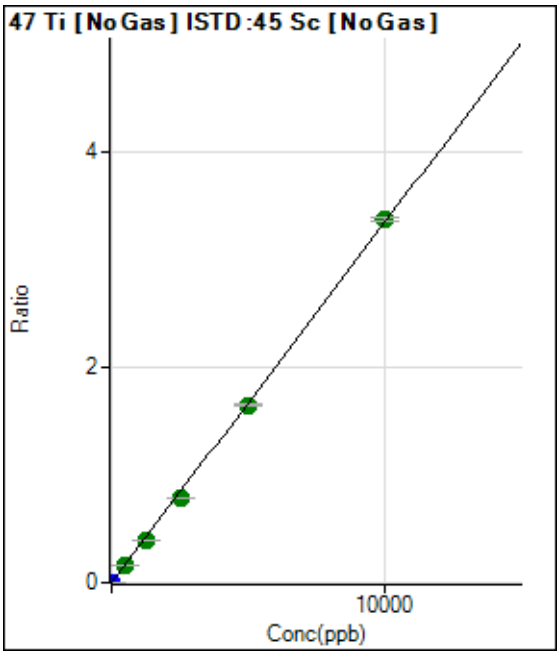
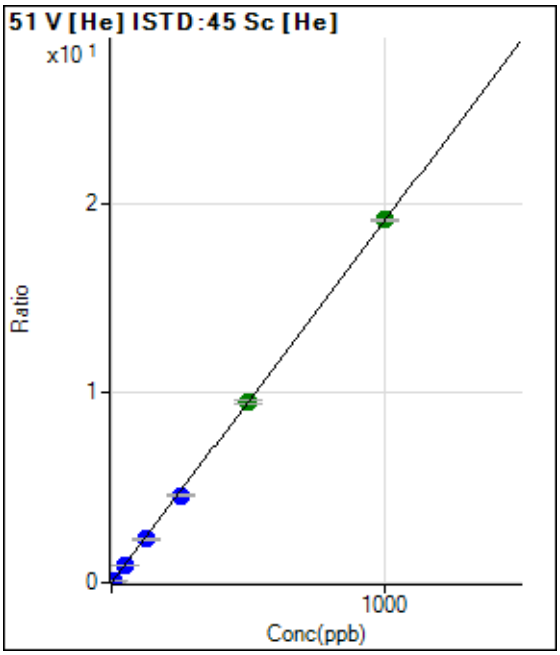


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	538.90	0.0001	P	6.4
2	☐	5.000	5.541	19541.20	0.0019	P	1.7
3	☐	500.000	485.338	1668462.74	0.1621	A	1.0
4	☐	1250.000	1189.838	3954139.49	0.3974	A	0.8
5	☐	2500.000	2359.010	7901866.69	0.7879	A	0.3
6	☐	5000.000	4924.102	15950690.18	1.6446	A	1.1
7	☐	10000.000	10081.450	31819184.53	3.3670	A	0.9
8	☐			3231.50	0.0004	P	4.6

y = 3.3397E-004 * x + 5.2726E-005
R = 0.9998
DL = 0.03025
BEC = 0.1579

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0001	P	10.4
2	☐	5.000	5.590	19602.37	0.1065	P	0.7
3	☐	50.000	48.916	169217.08	0.9315	P	0.6
4	☐	125.000	119.856	404843.77	2.2823	P	0.8
5	☐	250.000	240.857	806529.91	4.5864	P	2.2
6	☐	500.000	499.152	1646301.94	9.5046	A	1.7
7	☐	1000.000	1003.404	3313962.73	19.1063	A	0.4
8	☐			856.70	0.0053	P	5.1

y = 0.0190 * x + 1.0346E-004
R = 0.9999
DL = 0.001691
BEC = 0.005434

Weight: <None>
Min Conc: 0

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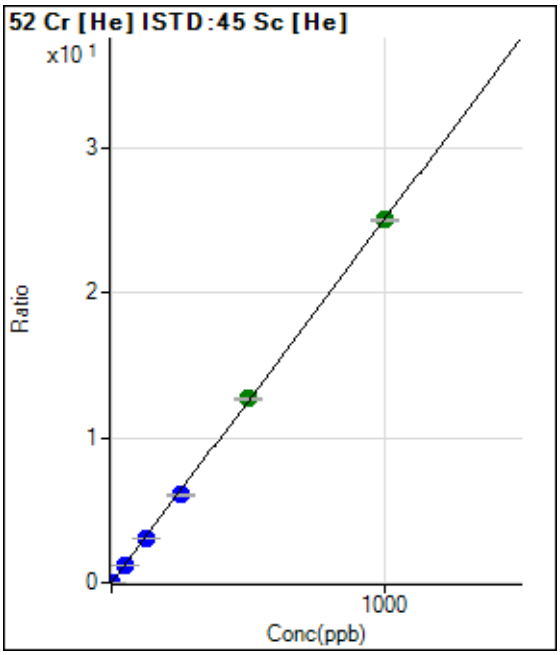
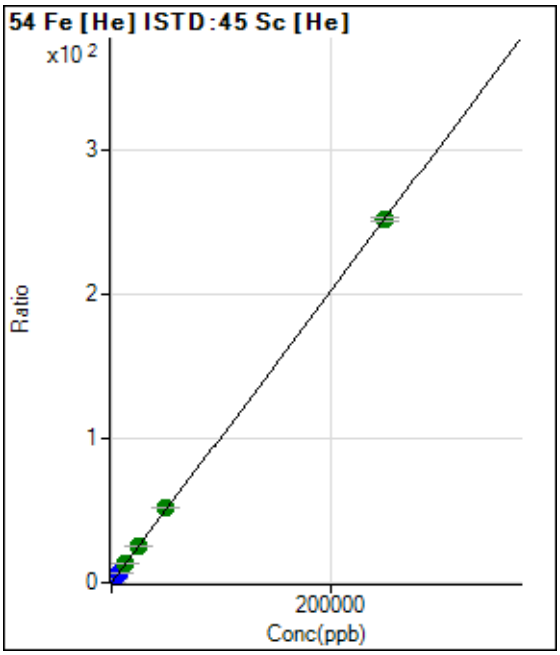


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1045.60	0.0057	P	3.7
2	☐	2.000	2.173	11063.26	0.0601	P	1.9
3	☐	50.000	49.330	225354.59	1.2406	P	0.5
4	☐	125.000	119.904	533424.00	3.0073	P	1.1
5	☐	250.000	241.172	1062790.22	6.0430	P	1.5
6	☐	500.000	507.822	2202875.35	12.7180	A	0.9
7	☐	1000.000	998.966	4338459.80	25.0128	A	0.8
8	☐			37313.00	0.2316	P	1.5

y = 0.0250 * x + 0.0057
R = 0.9999
DL = 0.02548
BEC = 0.2288

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	661.13	0.0036	P	9.7
2	☐	50.000	57.729	11382.39	0.0619	P	0.4
3	☐	2500.000	2558.683	469631.76	2.5853	P	0.2
4	☐	6250.000	6261.132	1121232.39	6.3211	P	1.0
5	☐	12500.000	12826.608	2276942.97	12.9457	A	1.1
6	☐	25000.000	25521.751	4460987.64	25.7552	A	1.2
7	☐	50000.000	51321.379	8982433.62	51.7872	A	0.2
8	☐	250000.00	249666.35	40582334.39	251.9183	A	1.0

y = 0.0010 * x + 0.0036
R = 1.0000
DL = 1.049
BEC = 3.589

Weight: <None>
Min Conc: 0

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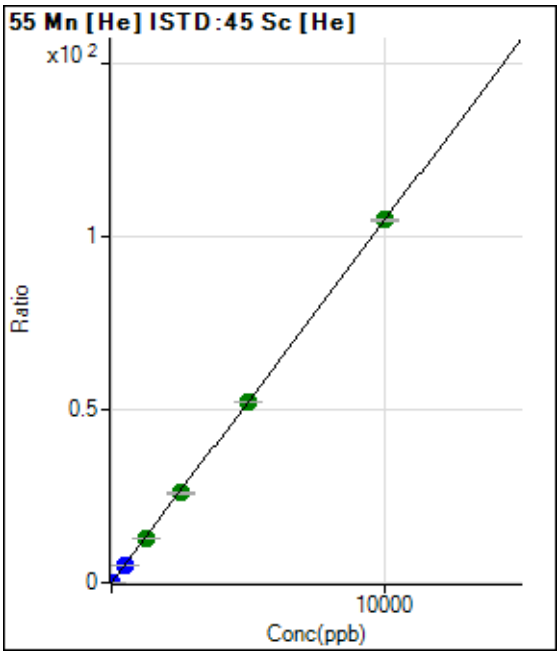
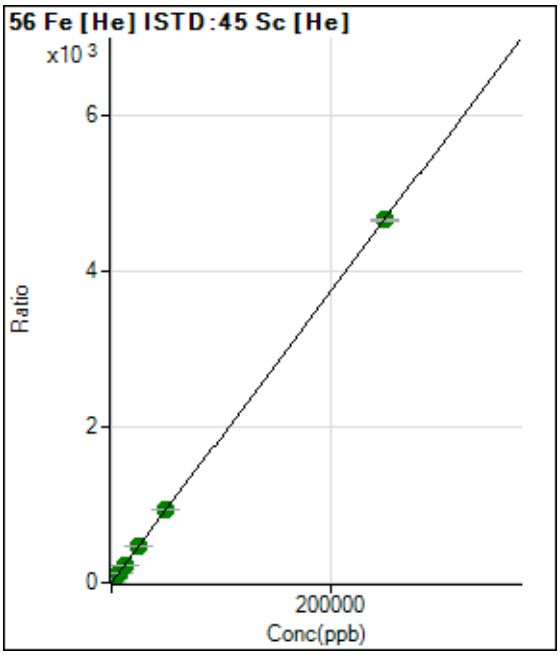


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1969.05	0.0108	P	2.8
2	☐	1.000	1.137	4172.87	0.0227	P	1.8
3	☐	500.000	495.814	944678.54	5.2007	P	1.0
4	☐	1250.000	1234.924	2294917.19	12.9374	A	0.7
5	☐	2500.000	2469.704	4548425.87	25.8624	A	1.8
6	☐	5000.000	4987.225	9044442.02	52.2146	A	0.5
7	☐	10000.000	10016.055	18186562.37	104.8540	A	0.6
8	☐			11668.17	0.0724	P	0.6

y = 0.0105 * x + 0.0108
R = 1.0000
DL = 0.08649
BEC = 1.03

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8855.08	0.0485	P	6.4
2	☐	50.000	56.439	202493.19	1.1007	P	0.3
3	☐	2500.000	2543.324	8621334.67	47.4619	A	0.5
4	☐	6250.000	6263.805	20720940.94	116.8201	A	1.2
5	☐	12500.000	12489.352	40958071.06	232.8785	A	1.3
6	☐	25000.000	25240.167	81510722.67	470.5828	A	1.0
7	☐	50000.000	50392.496	162951046.4	939.4796	A	0.4
8	☐	250000.00	249897.23	750493384.3	4,658.703	A	0.6

y = 0.0186 * x + 0.0485
R = 1.0000
DL = 0.5019
BEC = 2.601

Weight: <None>
Min Conc: 0

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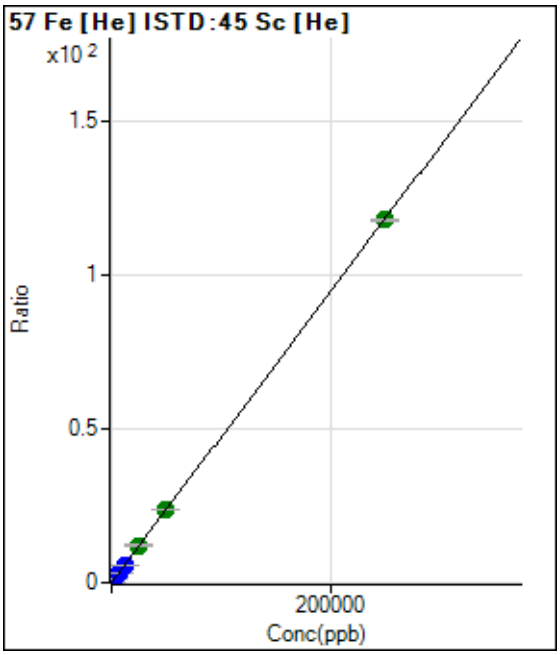
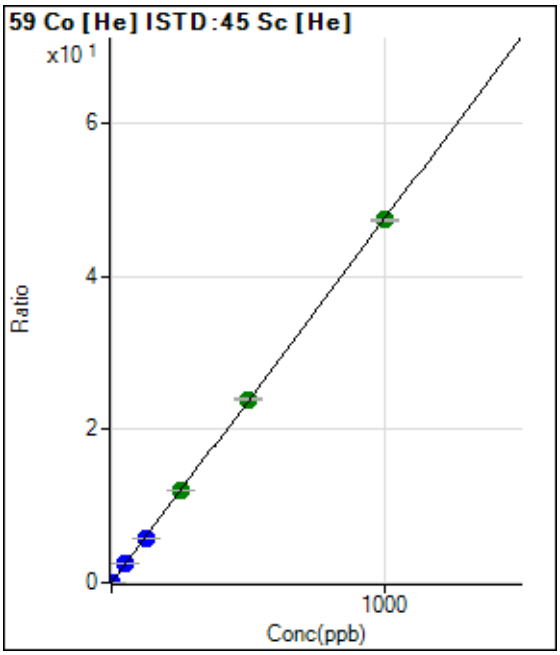


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.22	0.0011	P	14.8
2	☐	50.000	56.555	5102.07	0.0277	P	3.0
3	☐	2500.000	2535.828	217507.78	1.1974	P	0.8
4	☐	6250.000	6115.684	511979.31	2.8863	P	0.7
5	☐	12500.000	12293.554	1020264.31	5.8010	P	1.4
6	☐	25000.000	25738.287	2103618.56	12.1440	A	0.9
7	☐	50000.000	50524.240	4134483.13	23.8376	A	1.5
8	☐	250000.00	249834.64	18987923.47	117.8692	A	0.6

y = 4.7178E-004 * x + 0.0011
R = 1.0000
DL = 0.9889
BEC = 2.232

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	245.56	0.0013	P	13.2
2	☐	1.000	1.164	10403.86	0.0566	P	2.5
3	☐	50.000	50.431	434988.73	2.3946	P	0.0
4	☐	125.000	121.352	1021712.20	5.7603	P	1.5
5	☐	250.000	253.229	2113888.69	12.0187	A	1.1
6	☐	500.000	504.137	4144325.25	23.9258	A	1.0
7	☐	1000.000	997.559	8211306.06	47.3418	A	0.7
8	☐			16501.88	0.1024	P	1.1

y = 0.0475 * x + 0.0013
R = 1.0000
DL = 0.01118
BEC = 0.02834

Weight: <None>
Min Conc: 0

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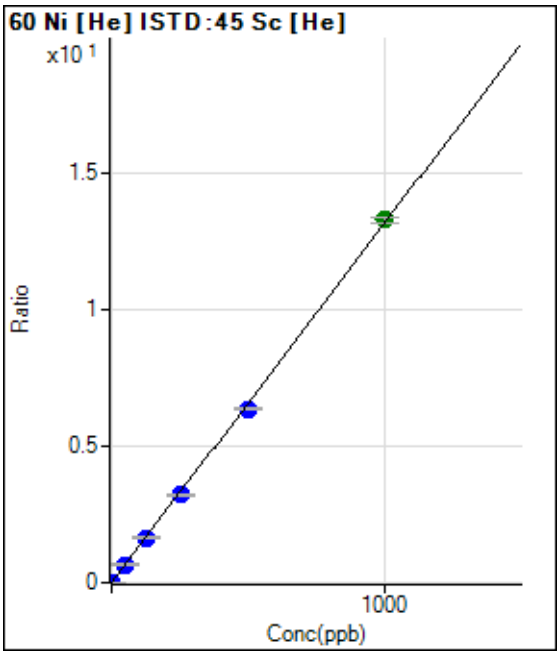
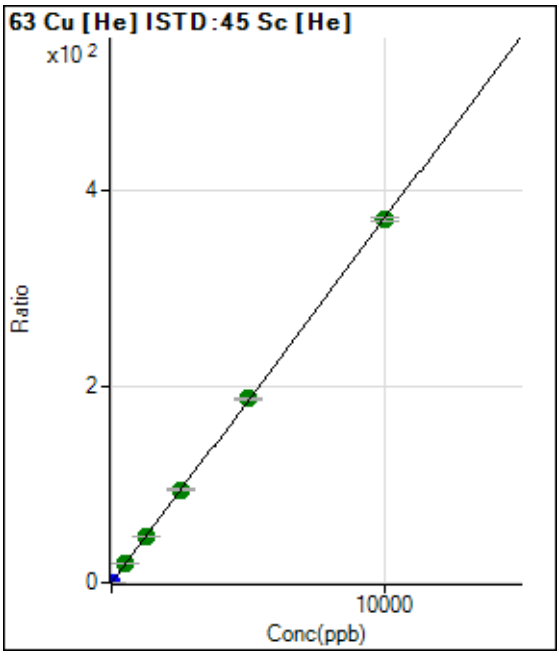


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	288.90	0.0016	P	20.3
2	☐	1.000	1.195	3187.06	0.0173	P	2.6
3	☐	50.000	50.624	121392.46	0.6683	P	0.4
4	☐	125.000	125.418	293233.56	1.6532	P	1.8
5	☐	250.000	244.202	565838.70	3.2175	P	1.9
6	☐	500.000	483.738	1103739.12	6.3720	P	0.3
7	☐	1000.000	1009.497	2306075.59	13.2958	A	1.5
8	☐			10628.49	0.0660	P	1.5

y = 0.0132 * x + 0.0016
R = 0.9998
DL = 0.07326
BEC = 0.1202

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1331.19	0.0073	P	5.7
2	☐	2.000	2.371	17533.15	0.0953	P	0.6
3	☐	500.000	531.509	3585356.54	19.7374	A	0.2
4	☐	1250.000	1257.603	8282066.27	46.6906	A	0.5
5	☐	2500.000	2551.227	16655556.84	94.7111	A	2.1
6	☐	5000.000	5048.099	32458894.80	187.3971	A	1.4
7	☐	10000.000	9960.618	64132239.04	369.7540	A	1.0
8	☐			16804.47	0.1043	P	1.4

y = 0.0371 * x + 0.0073
R = 1.0000
DL = 0.03371
BEC = 0.1964

Weight: <None>
Min Conc: 0

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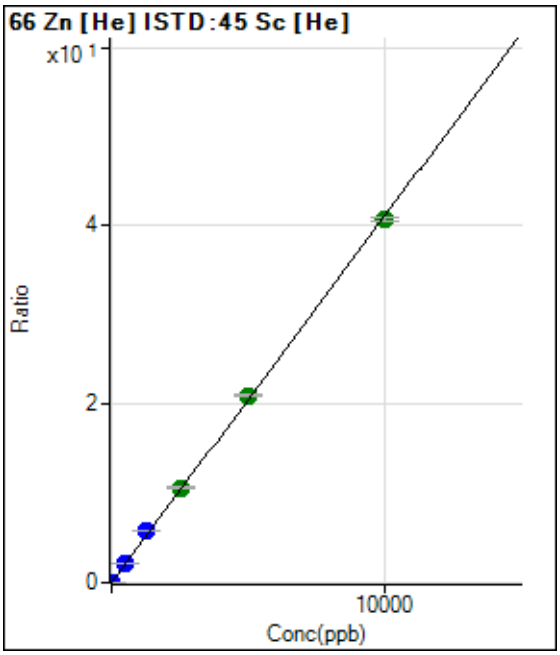
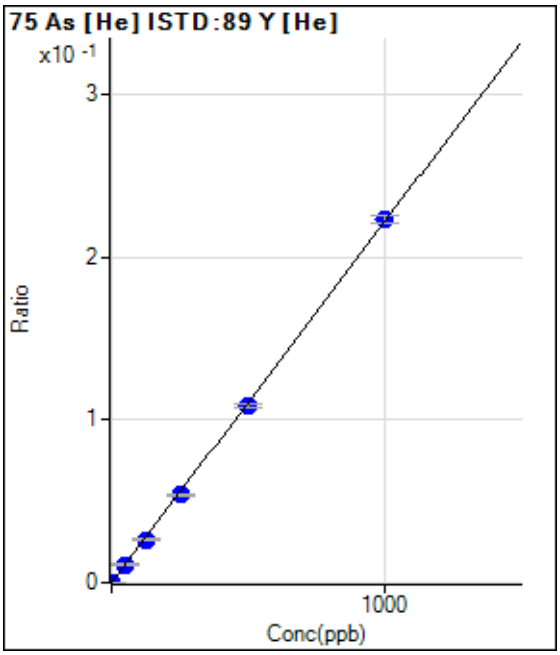


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	402.23	0.0022	P	6.6
2	☐	2.000	5.461	4528.55	0.0246	P	1.7
3	☐	500.000	510.687	381199.86	2.0986	P	0.4
4	☐	1250.000	1409.325	1026554.13	5.7874	P	1.1
5	☐	2500.000	2592.128	1871884.80	10.6428	A	1.2
6	☐	5000.000	5104.619	3629809.25	20.9565	A	1.2
7	☐	10000.000	9904.208	7052088.58	40.6586	A	1.0
8	☐			40361.66	0.2506	P	2.1

y = 0.0041 * x + 0.0022
R = 0.9998
DL = 0.106
BEC = 0.5365

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.7
2	☐	1.000	1.099	531.13	0.0002	P	14.5
3	☐	50.000	50.369	23184.67	0.0112	P	2.3
4	☐	125.000	119.661	54682.16	0.0265	P	1.5
5	☐	250.000	243.861	109432.69	0.0540	P	1.5
6	☐	500.000	491.207	217228.59	0.1088	P	1.4
7	☐	1000.000	1006.580	435997.48	0.2230	P	2.0
8	☐			211.12	0.0001	P	6.8

y = 2.2154E-004 * x + 2.5668E-006
R = 0.9999
DL = 0.01207
BEC = 0.01159

Weight: <None>
Min Conc: 0

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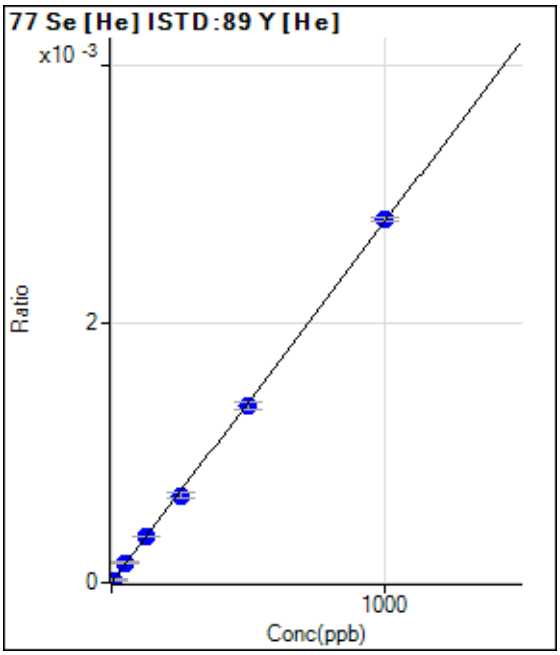
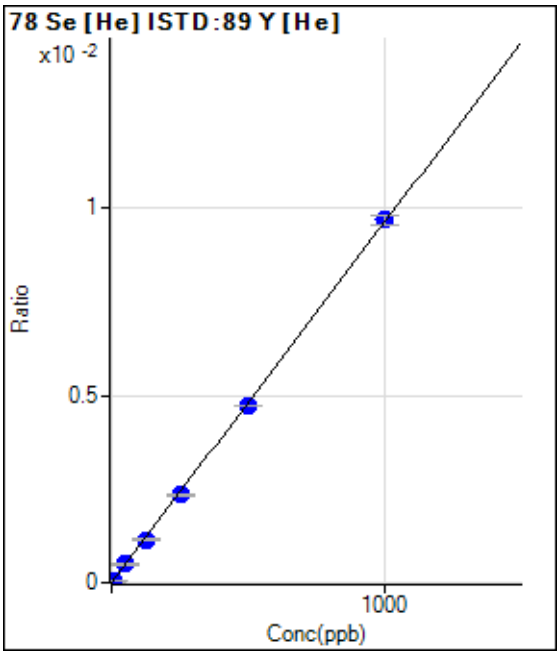


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.399	44.45	0.0000	P	30.8
3	☐	50.000	54.319	314.45	0.0002	P	6.8
4	☐	125.000	128.676	740.03	0.0004	P	1.3
5	☐	250.000	241.829	1365.63	0.0007	P	5.4
6	☐	500.000	490.381	2728.07	0.0014	P	5.3
7	☐	1000.000	1006.165	5485.57	0.0028	P	1.2
8	☐			4.44	0.0000	P	115.

y = 2.7881E-006 * x + 0.0000E+000
R = 0.9999
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0



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1	☐	0.000	0.000	15.56	0.0000	P	61.9
2	☐	5.000	4.774	114.45	0.0001	P	12.5
3	☐	50.000	50.772	1027.83	0.0005	P	10.1
4	☐	125.000	118.554	2364.67	0.0011	P	3.3
5	☐	250.000	243.813	4760.85	0.0024	P	1.7
6	☐	500.000	490.948	9434.35	0.0047	P	0.2
7	☐	1000.000	1006.841	18931.68	0.0097	P	2.7
8	☐			28.89	0.0000	P	32.3

y = 9.6108E-006 * x + 7.1863E-006
R = 0.9999
DL = 1.388
BEC = 0.7477

Weight: <None>
Min Conc: 0

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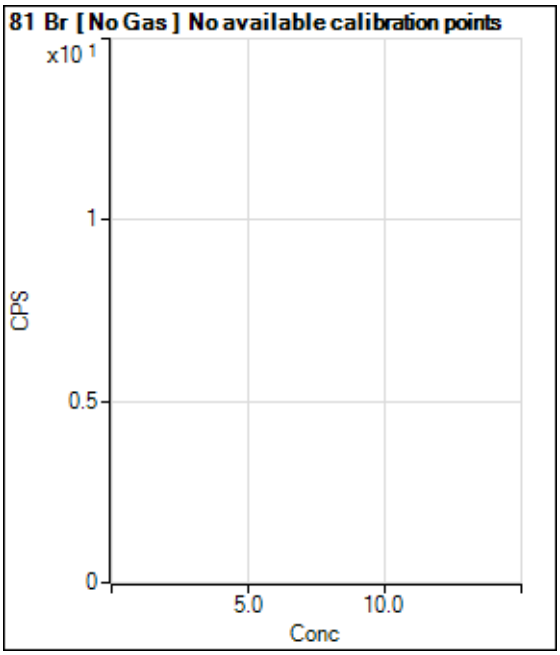
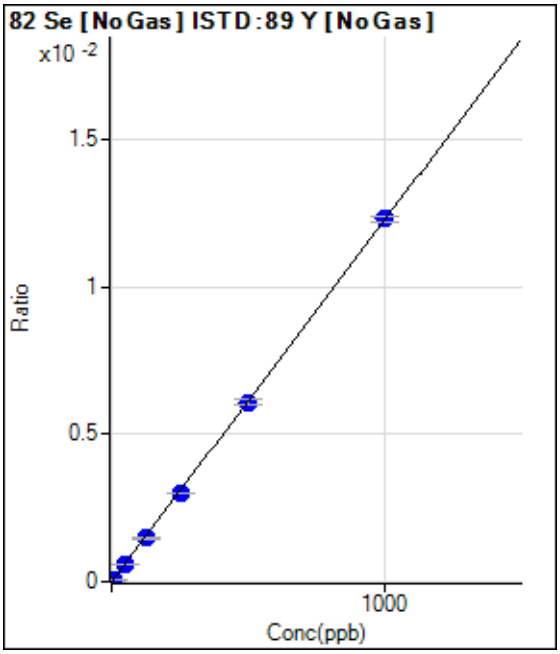


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			27553.79		P	1.2
2	☐			26991.64		P	0.9
3	☐			27521.50		P	3.1
4	☐			27079.54		P	1.8
5	☐			27008.29		P	1.8
6	☐			26087.69		P	1.6
7	☐			25754.83		P	1.8
8	☐			24125.28		P	2.6



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	143.
2	☐	5.000	5.690	2102.44	0.0001	P	3.5
3	☐	50.000	50.163	18088.80	0.0006	P	0.7
4	☐	125.000	119.908	42633.26	0.0015	P	1.1
5	☐	250.000	244.474	85827.96	0.0030	P	0.1
6	☐	500.000	496.773	172121.70	0.0061	P	2.7
7	☐	1000.000	1003.620	338976.17	0.0123	P	1.8
8	☐			251.12	0.0000	P	25.1

y = 1.2250E-005 * x + 7.1605E-007
R = 1.0000
DL = 0.2509
BEC = 0.05845

Weight: <None>
Min Conc: 0

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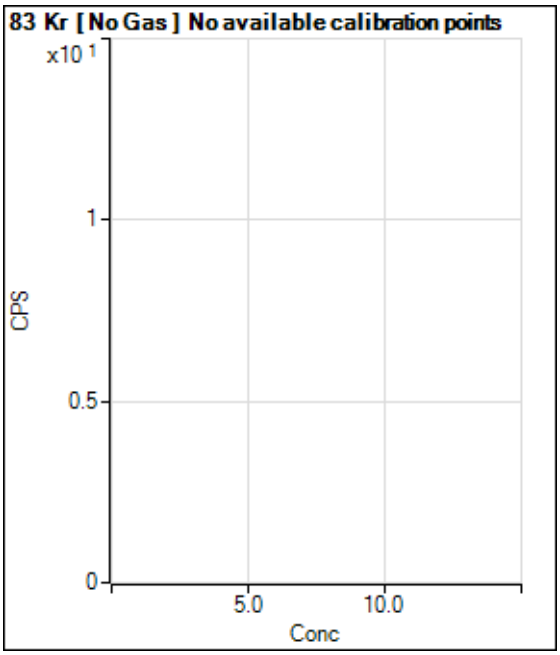
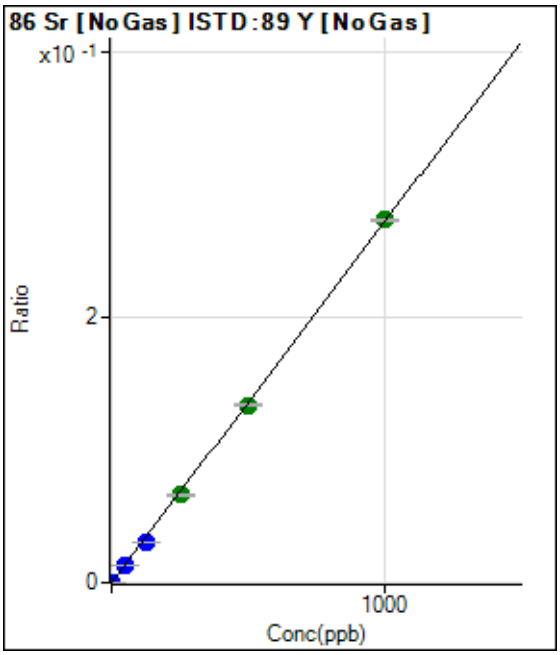


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			274.45		P	9.9
2	☐			278.90		P	5.0
3	☐			321.12		P	15.0
4	☐			301.12		P	7.2
5	☐			307.79		P	10.5
6	☐			314.45		P	7.2
7	☐			378.90		P	4.4
8	☐			347.79		P	1.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	467.79	0.0000	P	3.6
2	☐	1.000	1.030	8818.42	0.0003	P	0.3
3	☐	50.000	47.337	378171.78	0.0129	P	1.5
4	☐	125.000	113.688	895552.03	0.0309	P	1.2
5	☐	250.000	243.953	1897315.60	0.0662	A	1.1
6	☐	500.000	492.898	3784044.25	0.1338	A	1.1
7	☐	1000.000	1006.610	7532442.67	0.2732	A	0.8
8	☐			23667.86	0.0009	P	0.5

y = 2.7139E-004 * x + 1.5804E-005
R = 0.9999
DL = 0.006353
BEC = 0.05823

Weight: <None>
Min Conc: 0

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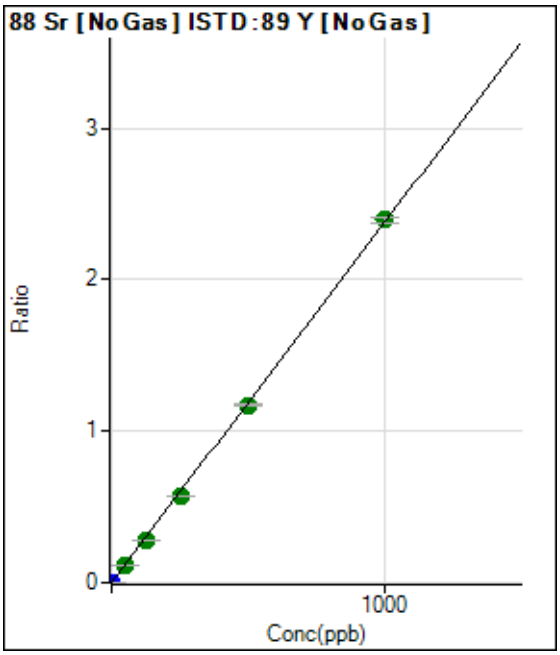
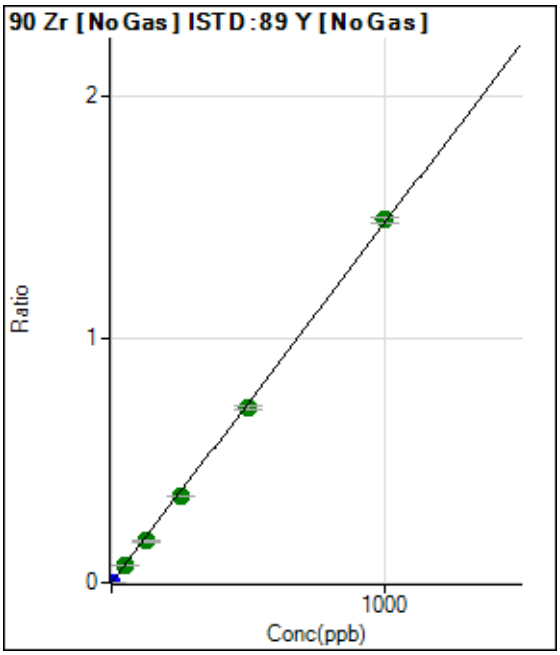


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	555.57	0.0000	P	6.6
2	☐	1.000	1.052	75184.11	0.0025	P	0.9
3	☐	50.000	48.486	3388569.43	0.1152	A	0.6
4	☐	125.000	118.031	8138566.34	0.2805	A	1.3
5	☐	250.000	239.958	16340183.92	0.5703	A	0.7
6	☐	500.000	492.511	33106308.95	1.1705	A	1.5
7	☐	1000.000	1007.202	65994832.35	2.3937	A	1.3
8	☐			203300.87	0.0077	P	1.0

y = 0.0024 * x + 1.8775E-005
R = 0.9999
DL = 0.001558
BEC = 0.0079

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1376.77	0.0000	P	9.9
2	☐	1.000	1.036	47081.44	0.0016	P	1.5
3	☐	50.000	48.214	2095003.13	0.0713	A	0.6
4	☐	125.000	115.996	4970370.55	0.1714	A	2.3
5	☐	250.000	240.263	10167453.18	0.3549	A	1.2
6	☐	500.000	488.383	20400495.80	0.7213	A	1.8
7	☐	1000.000	1009.457	41101591.05	1.4908	A	1.8
8	☐			19532.63	0.0007	P	1.0

y = 0.0015 * x + 4.6541E-005
R = 0.9998
DL = 0.009399
BEC = 0.03151

Weight: <None>
Min Conc: 0

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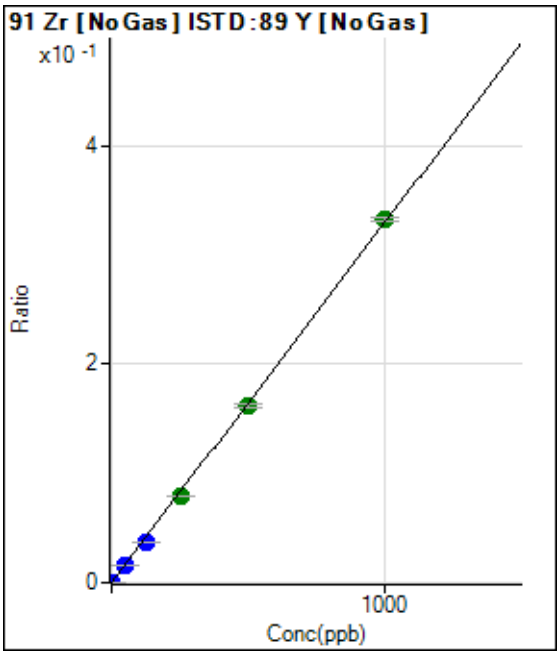
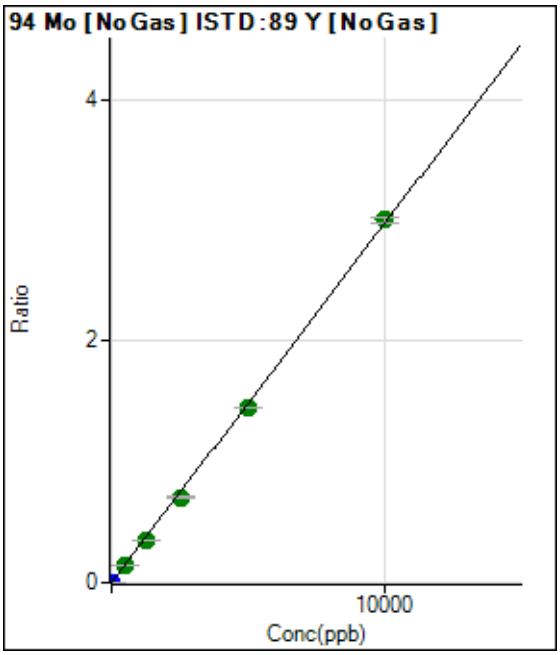


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.67	0.0000	P	3.2
2	☐	1.000	1.026	10339.46	0.0003	P	3.4
3	☐	50.000	46.761	453151.83	0.0154	P	1.3
4	☐	125.000	112.675	1077023.46	0.0371	P	1.3
5	☐	250.000	240.302	2268404.41	0.0792	A	1.1
6	☐	500.000	491.124	4575774.79	0.1618	A	2.5
7	☐	1000.000	1008.565	9160511.60	0.3323	A	1.1
8	☐			4329.60	0.0002	P	2.9

y = 3.2943E-004 * x + 8.3340E-006
R = 0.9998
DL = 0.002453
BEC = 0.0253

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	555.57	0.0000	P	12.1
2	☐	5.000	6.156	55172.13	0.0018	P	0.4
3	☐	500.000	483.888	4227938.03	0.1438	A	0.4
4	☐	1250.000	1159.338	9994099.64	0.3445	A	0.8
5	☐	2500.000	2374.522	20214429.00	0.7055	A	0.8
6	☐	5000.000	4877.490	40992308.83	1.4492	A	0.9
7	☐	10000.000	10104.762	82775206.54	3.0024	A	1.5
8	☐			16683.45	0.0006	P	3.8

y = 2.9712E-004 * x + 1.8765E-005
R = 0.9998
DL = 0.02301
BEC = 0.06315

Weight: <None>
Min Conc: 0

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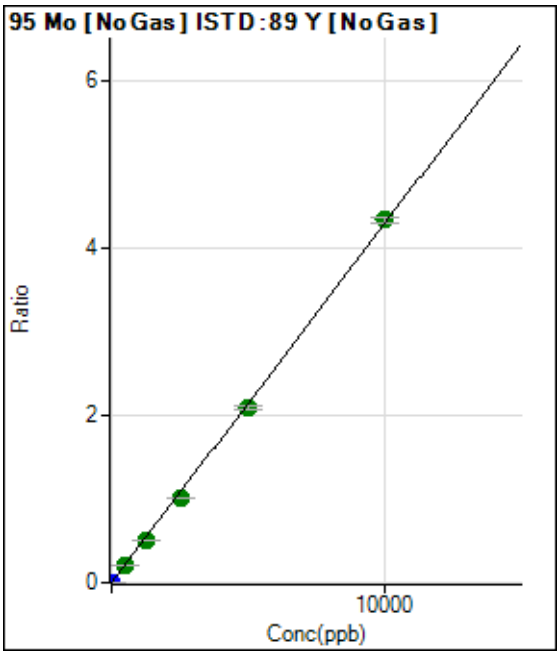
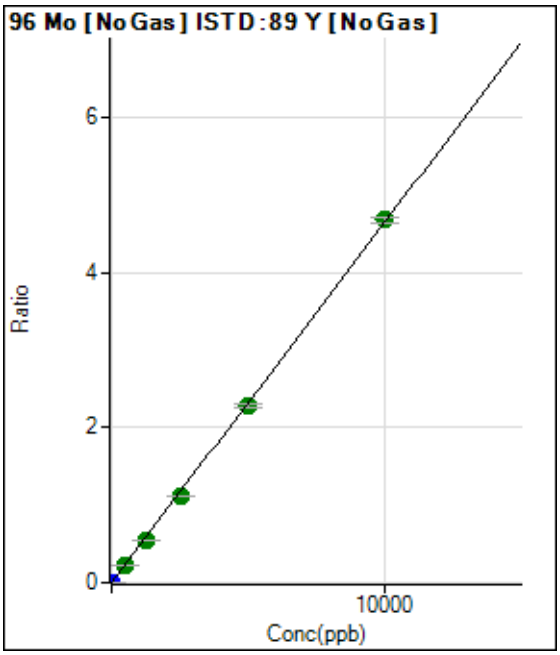


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0000	P	5.0
2	☐	5.000	5.165	66339.44	0.0022	P	0.8
3	☐	500.000	481.694	6074572.06	0.2066	A	1.0
4	☐	1250.000	1160.713	14442818.26	0.4978	A	0.7
5	☐	2500.000	2379.038	29235625.68	1.0204	A	0.2
6	☐	5000.000	4865.849	59026684.12	2.0870	A	1.6
7	☐	10000.000	10109.392	119541244.8	4.3360	A	1.4
8	☐			15730.11	0.0006	P	3.5

y = 4.2890E-004 * x + 6.6091E-006
R = 0.9998
DL = 0.002299
BEC = 0.01541

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	362.23	0.0000	P	3.4
2	☐	5.000	5.295	73782.24	0.0025	P	1.0
3	☐	500.000	488.802	6673692.33	0.2270	A	1.5
4	☐	1250.000	1163.389	15671762.13	0.5402	A	1.1
5	☐	2500.000	2401.812	31955724.52	1.1153	A	1.1
6	☐	5000.000	4920.621	64621592.37	2.2849	A	1.9
7	☐	10000.000	10075.623	128985518.0	4.6786	A	1.7
8	☐			29015.96	0.0011	P	2.5

y = 4.6434E-004 * x + 1.2241E-005
R = 0.9999
DL = 0.002701
BEC = 0.02636

Weight: <None>
Min Conc: 0

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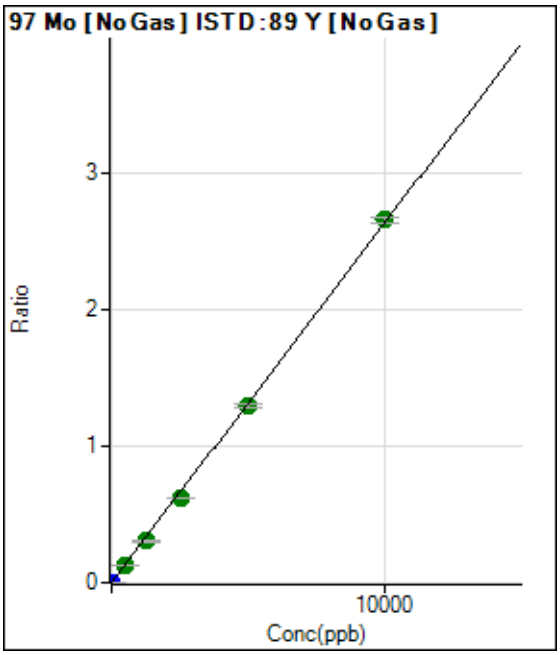
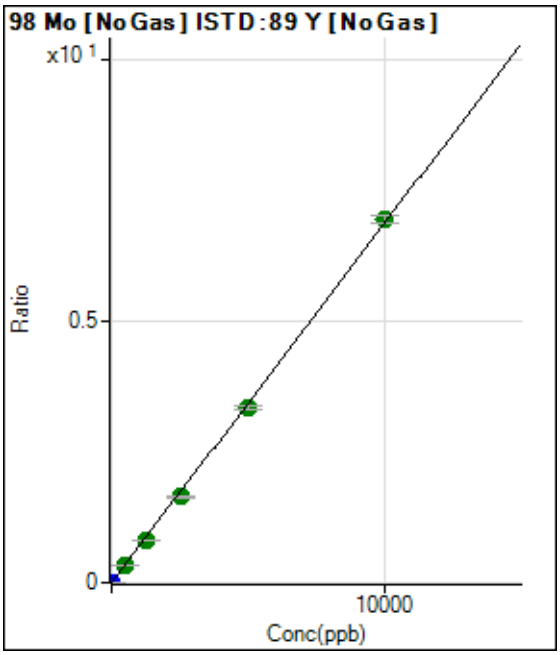


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0000	P	6.8
2	☐	5.000	5.235	41271.22	0.0014	P	1.1
3	☐	500.000	489.522	3787363.10	0.1288	A	2.2
4	☐	1250.000	1154.754	8815007.44	0.3039	A	1.6
5	☐	2500.000	2370.538	17873383.21	0.6238	A	0.9
6	☐	5000.000	4900.348	36469749.18	1.2895	A	2.1
7	☐	10000.000	10094.621	73236043.35	2.6564	A	1.6
8	☐			9347.67	0.0004	P	5.4

y = 2.6315E-004 * x + 4.6187E-006
R = 0.9998
DL = 0.003587
BEC = 0.01755

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.34	0.0000	P	20.2
2	☐	5.000	5.179	106446.48	0.0036	P	0.8
3	☐	500.000	486.603	9818624.99	0.3340	A	2.0
4	☐	1250.000	1169.567	23285707.71	0.8027	A	1.8
5	☐	2500.000	2391.609	47028294.86	1.6414	A	1.0
6	☐	5000.000	4882.761	94776706.36	3.3511	A	1.9
7	☐	10000.000	10096.441	191028826.0	6.9292	A	2.2
8	☐			24220.13	0.0009	P	4.4

y = 6.8630E-004 * x + 1.0598E-005
R = 0.9998
DL = 0.009364
BEC = 0.01544

Weight: <None>
Min Conc: 0

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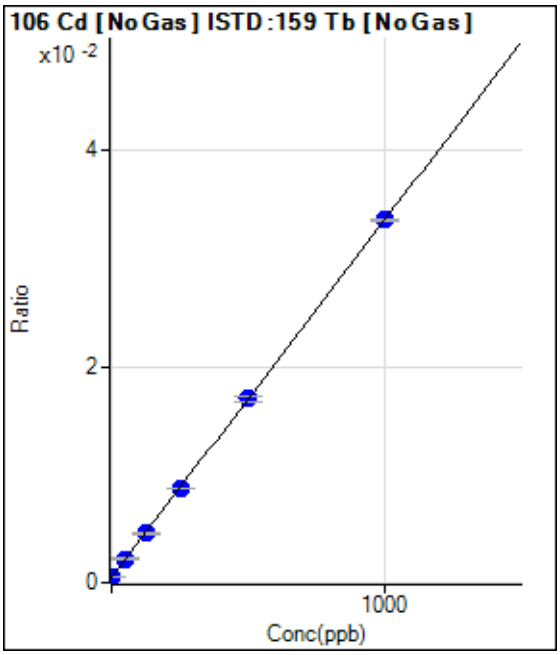
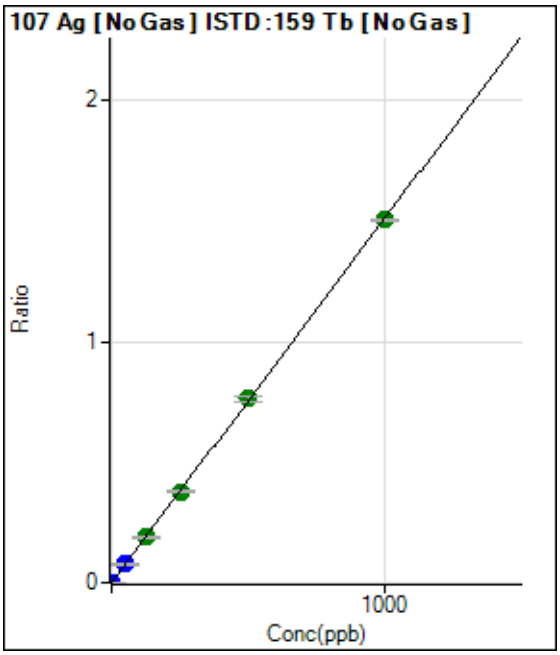


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9896.96	0.0005	P	2.0
2	☐	1.000	1.622	11151.27	0.0006	P	1.2
3	☐	50.000	52.093	44355.45	0.0022	P	0.8
4	☐	125.000	122.596	89974.02	0.0046	P	1.2
5	☐	250.000	248.516	171751.98	0.0087	P	0.6
6	☐	500.000	499.269	330817.59	0.0170	P	2.8
7	☐	1000.000	1000.932	647367.25	0.0336	P	0.8
8	☐			9059.71	0.0005	P	2.4

y = 3.3075E-005 * x + 4.9831E-004
R = 1.0000
DL = 0.9154
BEC = 15.07

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0000	P	18.9
2	☐	1.000	1.089	33391.43	0.0017	P	3.7
3	☐	50.000	50.273	1515416.73	0.0759	P	0.5
4	☐	125.000	125.280	3736539.14	0.1891	A	2.2
5	☐	250.000	250.883	7460362.94	0.3787	A	0.8
6	☐	500.000	505.680	14842934.64	0.7633	A	2.7
7	☐	1000.000	996.891	28987054.01	1.5047	A	0.5
8	☐			2811.43	0.0002	P	11.5

y = 0.0015 * x + 9.2259E-006
R = 1.0000
DL = 0.003465
BEC = 0.006112

Weight: <None>
Min Conc: 0

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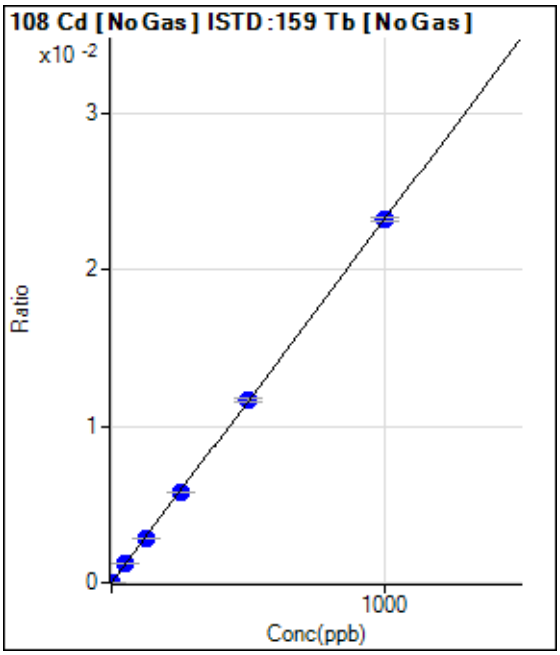
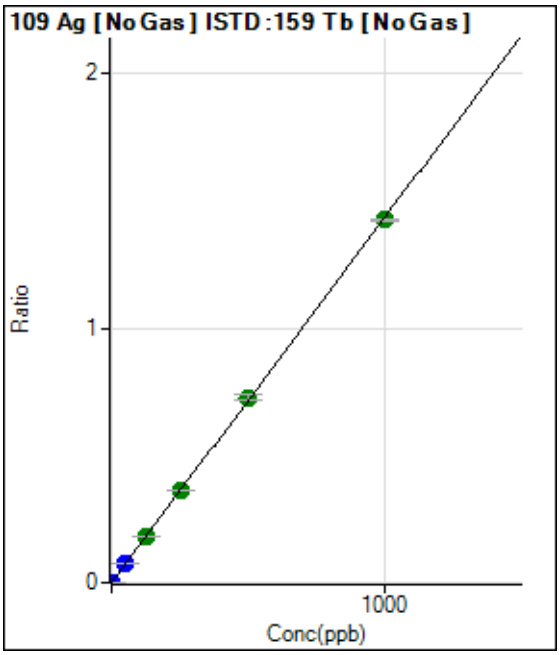


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.44	0.0000	P	57.9
2	☐	1.000	1.149	574.46	0.0000	P	8.5
3	☐	50.000	51.518	23914.11	0.0012	P	1.5
4	☐	125.000	122.667	56303.20	0.0028	P	0.8
5	☐	250.000	248.783	113810.39	0.0058	P	1.8
6	☐	500.000	503.496	227330.71	0.0117	P	2.5
7	☐	1000.000	998.772	446676.86	0.0232	P	1.2
8	☐			218.90	0.0000	P	13.6

y = 2.3213E-005 * x + 1.7289E-006
R = 1.0000
DL = 0.1293
BEC = 0.07448

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.56	0.0000	P	23.7
2	☐	1.000	1.098	31833.43	0.0016	P	4.2
3	☐	50.000	50.626	1447760.38	0.0725	P	0.5
4	☐	125.000	126.015	3565952.58	0.1805	A	0.6
5	☐	250.000	253.609	7154915.17	0.3632	A	0.7
6	☐	500.000	508.690	14166672.43	0.7285	A	2.3
7	☐	1000.000	994.595	27438074.87	1.4243	A	0.8
8	☐			2353.57	0.0001	P	5.6

y = 0.0014 * x + 3.8004E-006
R = 0.9999
DL = 0.001886
BEC = 0.002654

Weight: <None>
Min Conc: 0

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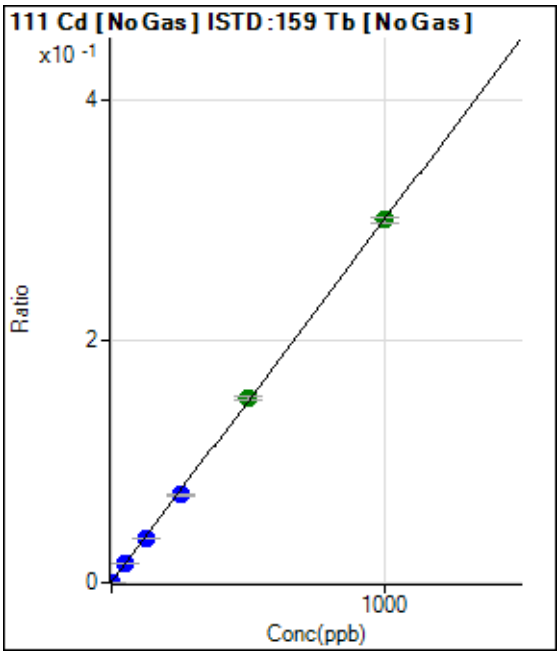
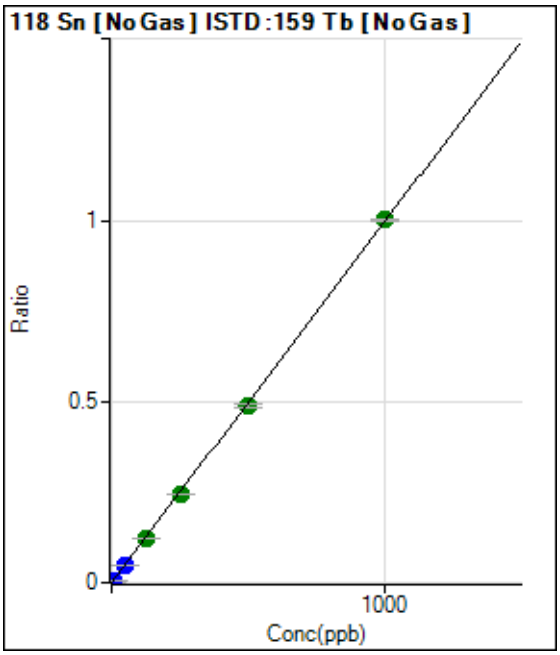


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6945.98	0.0003	P	2.3
2	☐	1.000	1.181	14232.17	0.0007	P	0.5
3	☐	50.000	50.348	308806.01	0.0155	P	0.9
4	☐	125.000	119.708	717040.52	0.0363	P	1.2
5	☐	250.000	240.848	1431356.59	0.0727	P	0.7
6	☐	500.000	507.611	2970509.69	0.1527	A	1.8
7	☐	1000.000	999.127	5784920.83	0.3003	A	1.9
8	☐			7096.40	0.0004	P	1.9

y = 3.0021E-004 * x + 3.4973E-004
R = 0.9999
DL = 0.08054
BEC = 1.165

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4050.66	0.0002	P	2.8
2	☐	5.000	5.276	110223.44	0.0055	P	1.1
3	☐	50.000	48.231	962725.52	0.0482	P	0.5
4	☐	125.000	121.305	2389915.88	0.1209	A	0.8
5	☐	250.000	244.245	4793574.03	0.2433	A	1.1
6	☐	500.000	491.721	9522365.20	0.4896	A	2.3
7	☐	1000.000	1006.127	19296756.93	1.0017	A	0.8
8	☐			6698.38	0.0004	P	3.5

y = 9.9537E-004 * x + 2.0394E-004
R = 0.9999
DL = 0.01743
BEC = 0.2049

Weight: <None>
Min Conc: 0

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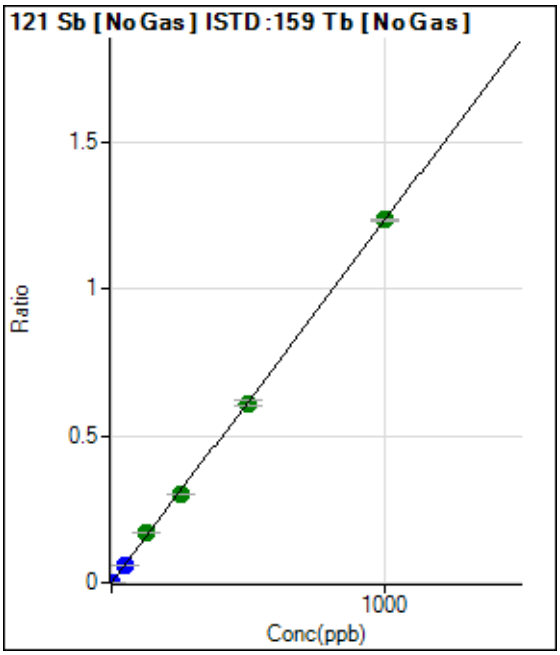
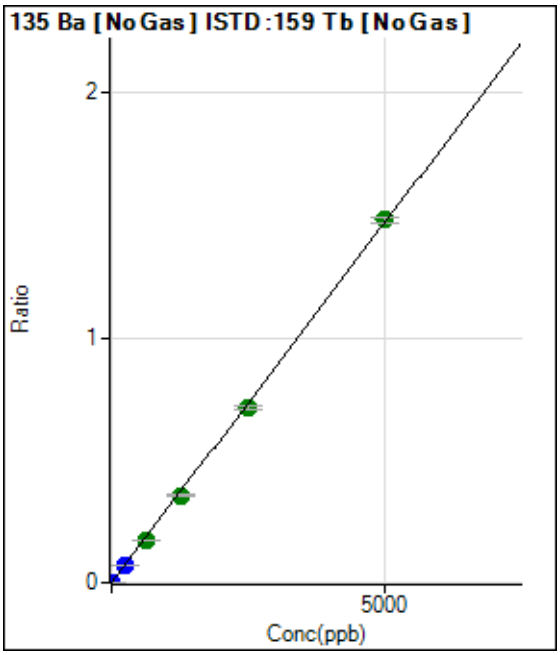


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0000	P	15.2
2	☐	2.000	2.098	52338.46	0.0026	P	1.4
3	☐	50.000	48.572	1196367.36	0.0599	P	0.6
4	☐	125.000	136.566	3328652.35	0.1684	A	0.9
5	☐	250.000	244.643	5944734.08	0.3017	A	1.1
6	☐	500.000	496.200	11901812.46	0.6120	A	2.8
7	☐	1000.000	1001.865	23805361.03	1.2357	A	0.7
8	☐			16860.50	0.0009	P	1.9

y = 0.0012 * x + 3.2452E-006
R = 0.9999
DL = 0.001197
BEC = 0.002631

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	177.78	0.0000	P	20.0
2	☐	10.000	10.456	62221.94	0.0031	P	2.2
3	☐	250.000	238.877	1401197.48	0.0702	P	1.0
4	☐	625.000	597.767	3469617.10	0.1756	A	0.7
5	☐	1250.000	1208.007	6990230.17	0.3548	A	1.8
6	☐	2500.000	2442.717	13952578.26	0.7175	A	2.4
7	☐	5000.000	5043.099	28534647.35	1.4812	A	1.5
8	☐			10846.65	0.0006	P	1.8

y = 2.9371E-004 * x + 8.9596E-006
R = 0.9999
DL = 0.01829
BEC = 0.03051

Weight: <None>
Min Conc: 0

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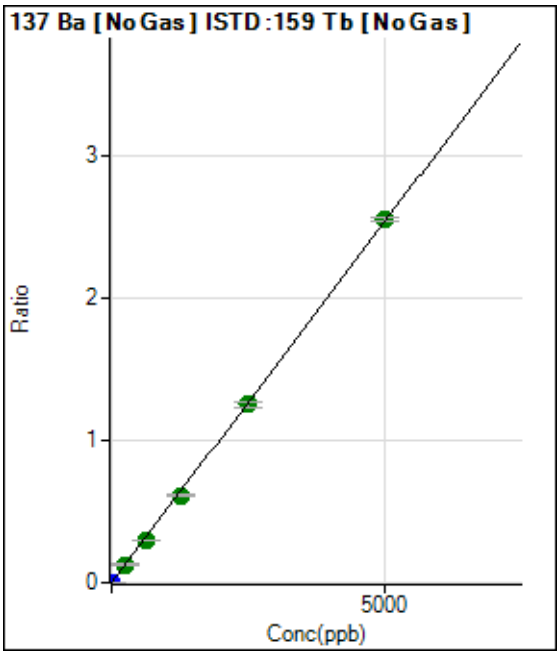
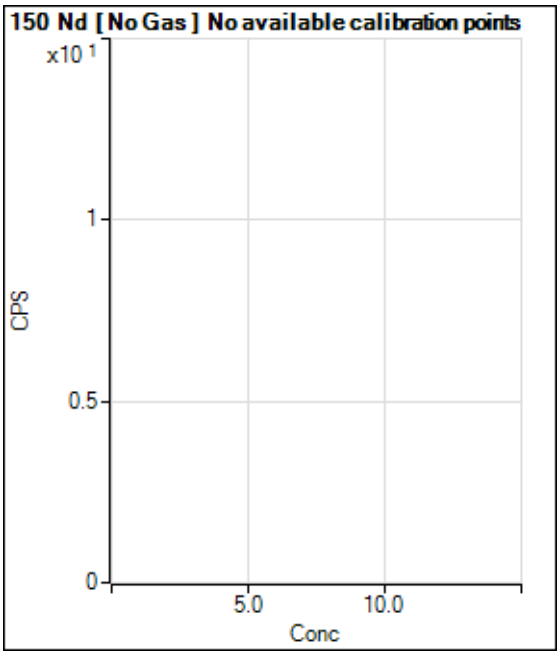


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	287.78	0.0000	P	10.0
2	☐	10.000	10.664	109615.71	0.0054	P	2.4
3	☐	250.000	253.046	2564614.63	0.1284	A	1.5
4	☐	625.000	593.202	5949041.30	0.3011	A	0.9
5	☐	1250.000	1212.069	12118659.26	0.6151	A	1.4
6	☐	2500.000	2467.606	24353189.92	1.2523	A	2.7
7	☐	5000.000	5029.501	49170995.38	2.5524	A	1.2
8	☐			19088.04	0.0011	P	1.8

y = 5.0749E-004 * x + 1.4481E-005
R = 0.9999
DL = 0.008578
BEC = 0.02853

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			18.89		P	10.2
2	☐			28.89		P	46.6
3	☐			136.67		P	8.4
4	☐			621.14		P	7.6
5	☐			563.35		P	1.6
6	☐			1156.73		P	6.4
7	☐			2179.09		P	6.3
8	☐			445.57		P	13.9

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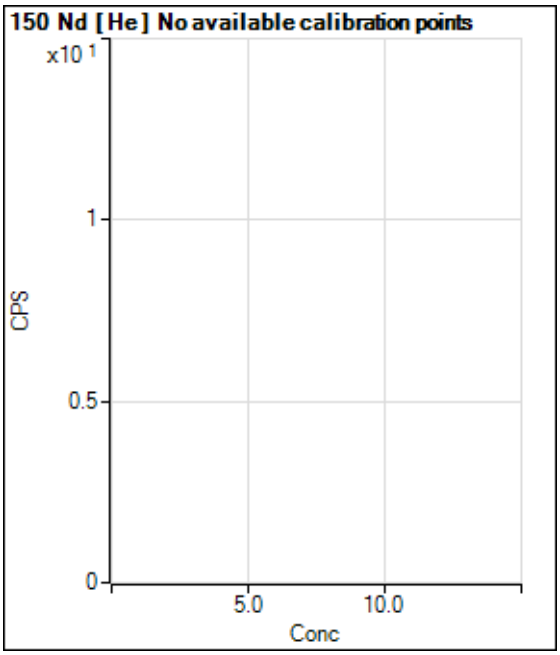
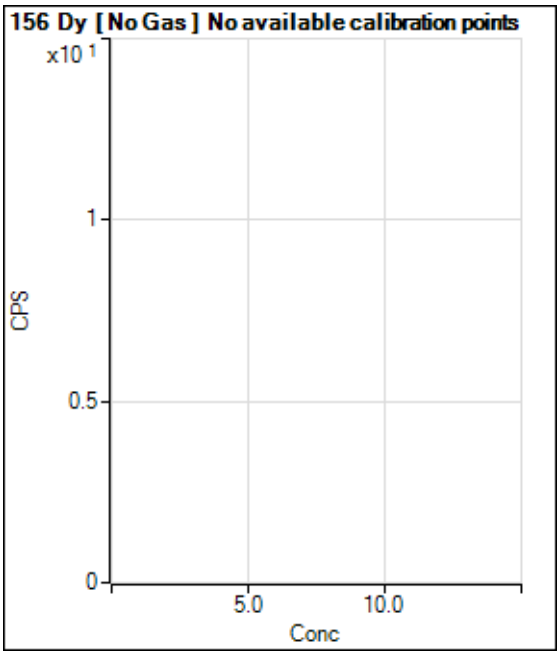


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			13.33		P	25.0
4	☐			81.11		P	6.3
5	☐			35.55		P	47.2
6	☐			77.78		P	23.6
7	☐			107.78		P	34.8
8	☐			114.44		P	31.4



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1	☐			142.23		P	31.1
2	☐			191.11		P	23.2
3	☐			214.45		P	24.9
4	☐			466.68		P	7.2
5	☐			308.90		P	5.9
6	☐			472.24		P	8.8
7	☐			702.25		P	5.5
8	☐			928.93		P	5.9

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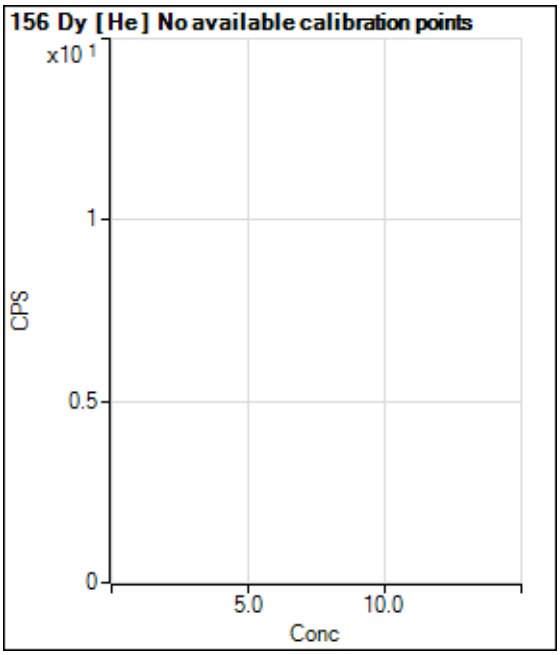

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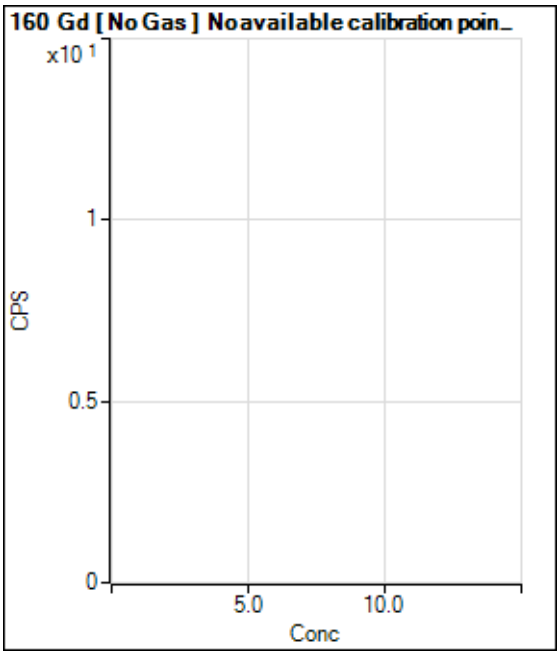
1	☐			12.22		P	83.3
2	☐			15.55		P	44.6
3	☐			14.45		P	48.0
4	☐			90.00		P	18.5
5	☐			46.67		P	21.4
6	☐			61.11		P	11.4
7	☐			134.45		P	2.9
8	☐			250.01		P	11.9



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1	☐			155.56		P	28.0
2	☐			151.11		P	3.4
3	☐			158.89		P	12.3
4	☐			347.78		P	10.5
5	☐			240.00		P	10.0
6	☐			306.67		P	12.1
7	☐			418.90		P	2.4
8	☐			831.15		P	11.3

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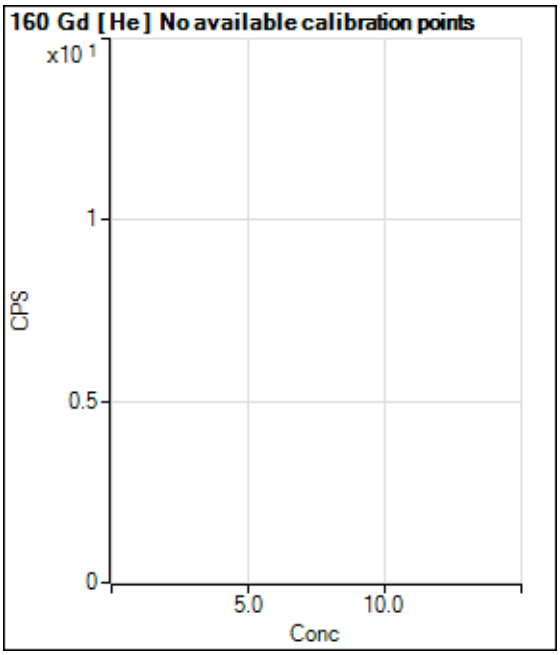

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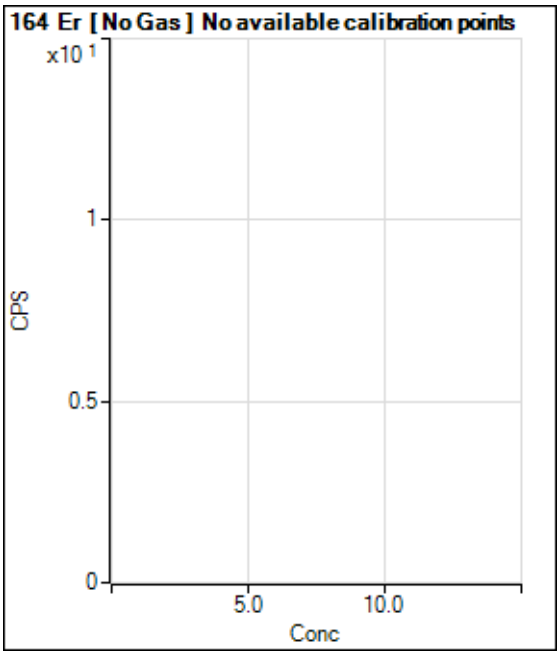
1	☐			31.11		P	6.2
2	☐			41.11		P	40.8
3	☐			50.00		P	20.0
4	☐			117.78		P	15.6
5	☐			92.22		P	11.0
6	☐			97.78		P	3.9
7	☐			164.45		P	8.2
8	☐			302.23		P	7.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			114.45		P	24.8
2	☐			154.45		P	3.3
3	☐			163.34		P	14.3
4	☐			330.01		P	2.7
5	☐			218.89		P	5.8
6	☐			327.79		P	4.1
7	☐			510.02		P	6.5
8	☐			965.60		P	2.0

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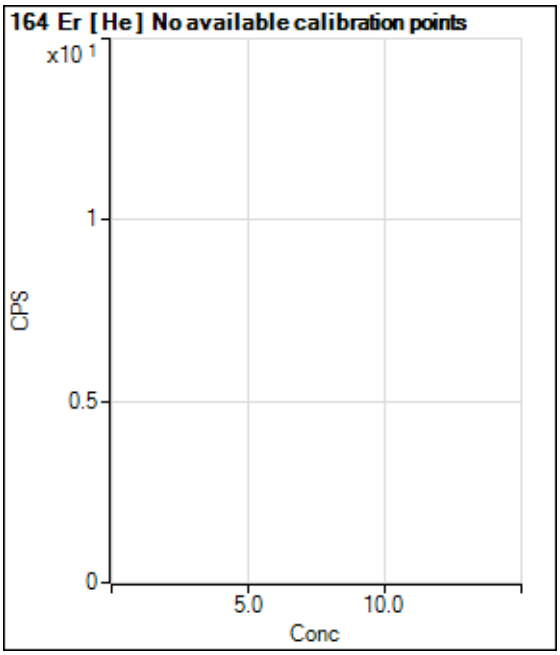
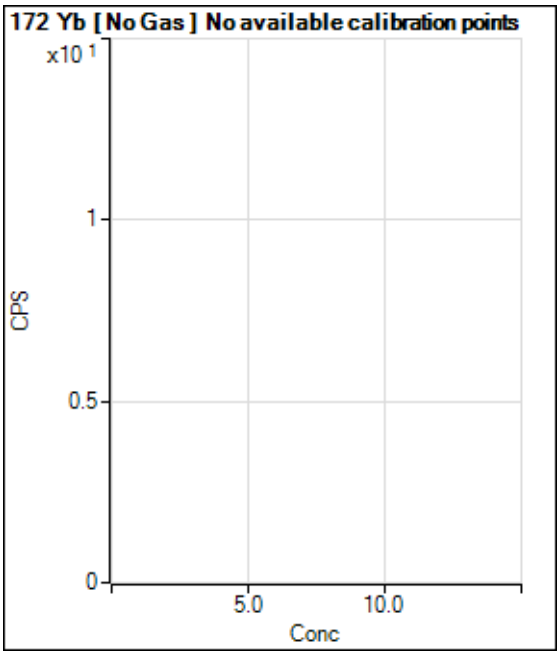


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			56.66		P	10.2
2	☐			51.11		P	3.8
3	☐			63.33		P	19.0
4	☐			134.45		P	28.5
5	☐			110.00		P	13.2
6	☐			123.34		P	29.2
7	☐			193.34		P	7.9
8	☐			391.12		P	13.6



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1	☐			125.56		P	7.7
2	☐			114.45		P	14.4
3	☐			151.11		P	18.8
4	☐			240.01		P	13.3
5	☐			240.00		P	2.4
6	☐			370.01		P	8.3
7	☐			511.13		P	9.1
8	☐			1577.89		P	0.4

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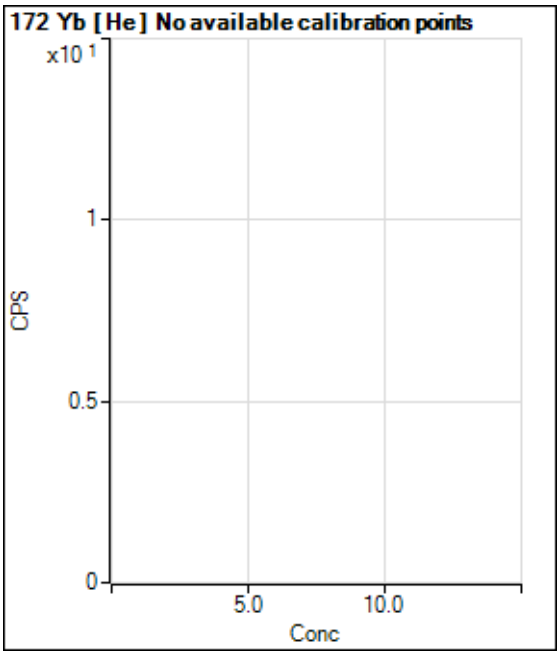
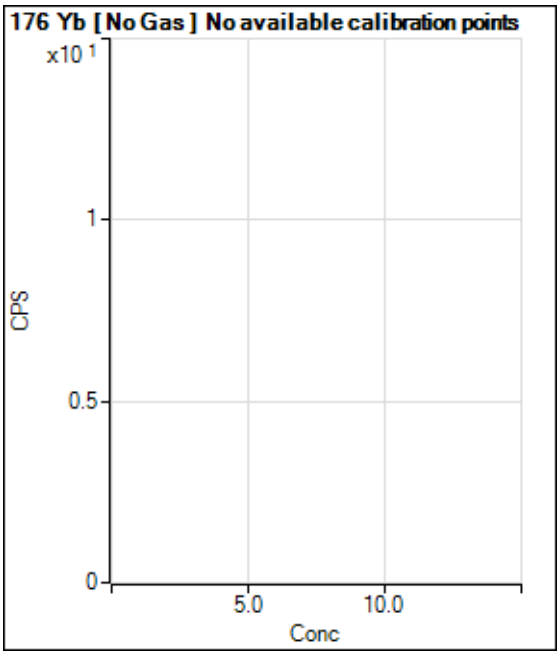
LB :LB135757



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			70.00		P	17.2
2	☐			58.89		P	26.1
3	☐			66.67		P	30.0
4	☐			98.89		P	45.3
5	☐			101.11		P	11.6
6	☐			134.45		P	8.7
7	☐			233.34		P	16.2
8	☐			693.36		P	5.8



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2606.95		P	9.2
2	☐			2781.43		P	2.8
3	☐			7623.37		P	1.3
4	☐			14209.96		P	1.0
5	☐			26610.20		P	1.6
6	☐			50989.02		P	1.1
7	☐			100699.07		P	1.1
8	☐			3347.13		P	2.5

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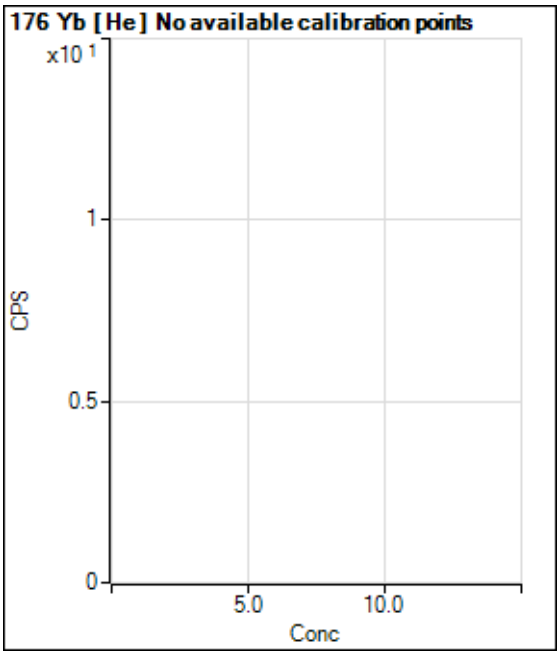

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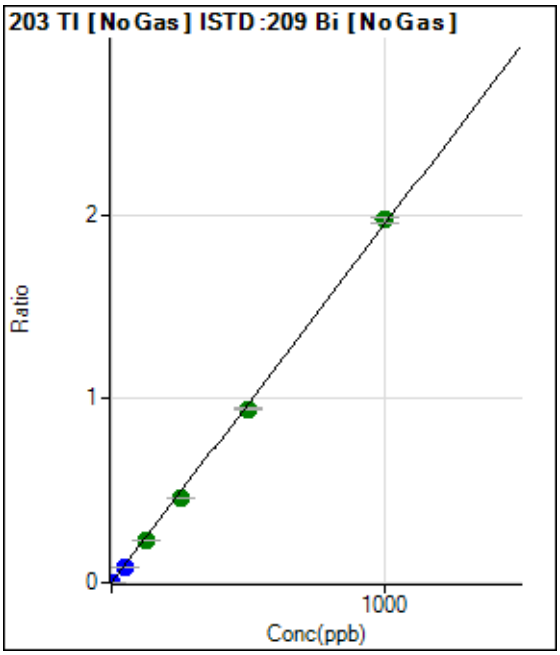
1	☐			962.27		P	9.9
2	☐			886.71		P	5.3
3	☐			2611.40		P	6.7
4	☐			5368.92		P	1.5
5	☐			9629.14		P	1.7
6	☐			18883.59		P	2.4
7	☐			37290.31		P	0.5
8	☐			1084.50		P	5.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.78	0.0000	P	6.0
2	☐	1.000	0.993	22814.56	0.0019	P	3.3
3	☐	50.000	45.134	1031447.15	0.0879	P	0.4
4	☐	125.000	116.313	2575221.24	0.2264	A	1.3
5	☐	250.000	235.962	5198168.36	0.4594	A	0.3
6	☐	500.000	483.875	10336936.58	0.9420	A	1.2
7	☐	1000.000	1012.901	20942127.88	1.9719	A	1.7
8	☐			1743.47	0.0002	P	11.3

y = 0.0019 * x + 1.6270E-005
R = 0.9997
DL = 0.001511
BEC = 0.008357

Weight: <None>
Min Conc: 0

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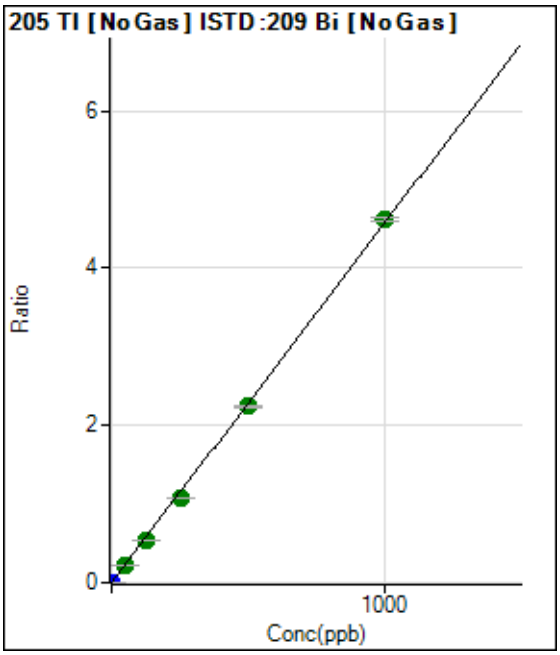
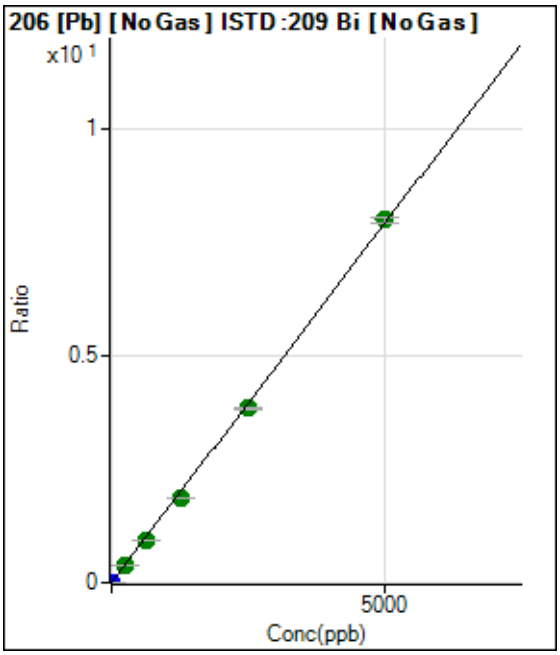


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.35	0.0000	P	12.4
2	☐	1.000	1.010	54552.94	0.0047	P	0.5
3	☐	50.000	47.563	2551880.38	0.2174	A	0.7
4	☐	125.000	115.958	6027324.77	0.5300	A	1.1
5	☐	250.000	235.516	12179802.87	1.0764	A	0.9
6	☐	500.000	490.872	24618867.41	2.2435	A	1.6
7	☐	1000.000	1009.437	48998210.38	4.6135	A	1.2
8	☐			4244.08	0.0005	P	11.2

y = 0.0046 * x + 4.1915E-005
R = 0.9998
DL = 0.00341
BEC = 0.009171

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	537.80	0.0000	P	8.4
2	☐	1.000	0.991	18943.91	0.0016	P	1.7
3	☐	250.000	238.676	4441916.49	0.3784	A	1.0
4	☐	625.000	594.427	10717818.45	0.9425	A	1.2
5	☐	1250.000	1183.497	21231990.93	1.8764	A	0.6
6	☐	2500.000	2436.195	42384445.48	3.8624	A	1.1
7	☐	5000.000	5052.916	85081758.18	8.0110	A	1.7
8	☐			86506.98	0.0093	P	0.9

y = 0.0016 * x + 4.6625E-005
R = 0.9998
DL = 0.007454
BEC = 0.02941

Weight: <None>
Min Conc: 0

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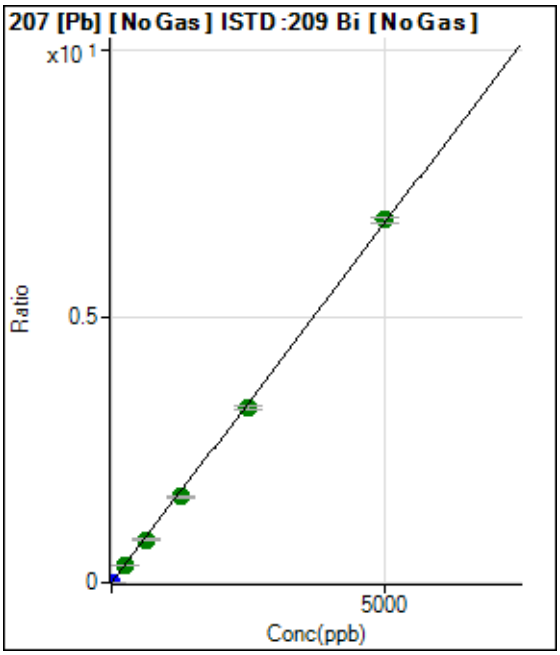
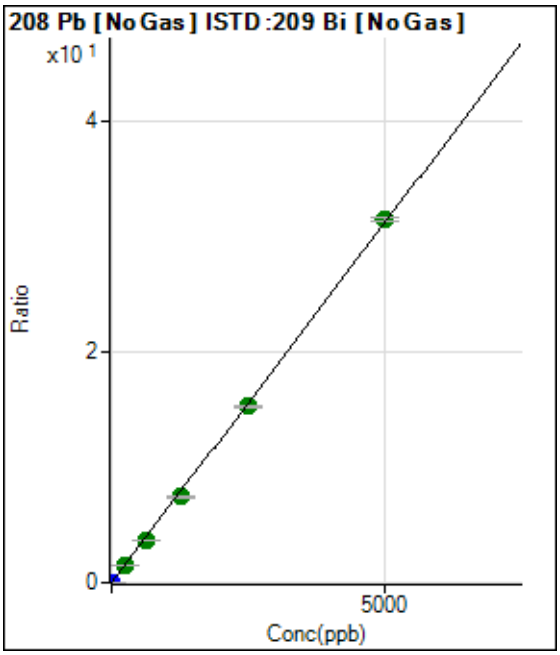


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	444.46	0.0000	P	9.1
2	☐	1.000	1.008	16384.88	0.0014	P	1.2
3	☐	250.000	241.987	3835975.84	0.3268	A	0.5
4	☐	625.000	600.707	9225704.03	0.8112	A	0.5
5	☐	1250.000	1193.065	18231280.29	1.6112	A	1.4
6	☐	2500.000	2441.420	36179037.80	3.2970	A	1.8
7	☐	5000.000	5046.961	72384098.92	6.8155	A	1.8
8	☐			75014.11	0.0081	P	1.4

y = 0.0014 * x + 3.8510E-005
R = 0.9998
DL = 0.007769
BEC = 0.02852

Weight: <None>
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2052.31	0.0002	P	3.3
2	☐	1.000	1.005	75463.01	0.0064	P	1.1
3	☐	250.000	239.779	17552492.68	1.4955	A	0.1
4	☐	625.000	600.251	42571891.03	3.7435	A	0.4
5	☐	1250.000	1193.625	84229648.33	7.4439	A	1.0
6	☐	2500.000	2447.030	167460624.1	15.2604	A	1.4
7	☐	5000.000	5044.183	334096334.4	31.4569	A	0.9
8	☐			343626.08	0.0369	P	1.2

y = 0.0062 * x + 1.7789E-004
R = 0.9998
DL = 0.002809
BEC = 0.02853

Weight: <None>
Min Conc: 0

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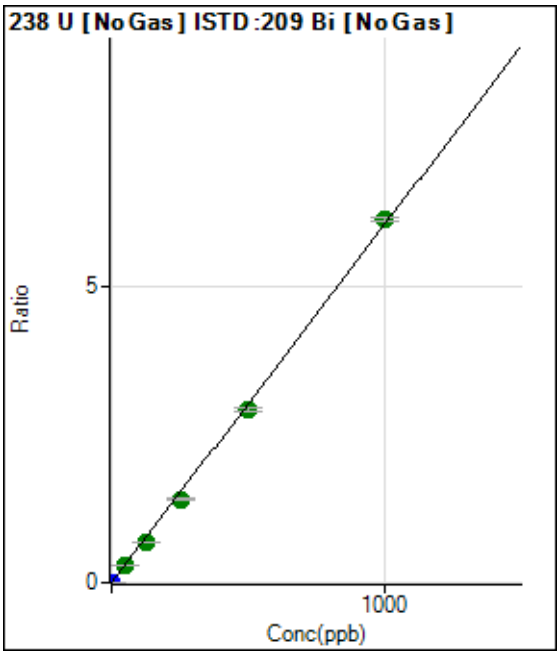
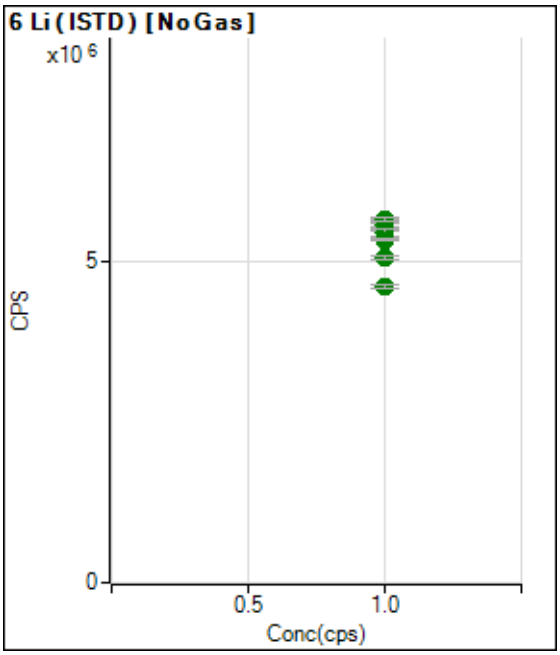


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	346.67	0.0000	P	7.2
2	☐	1.000	0.996	70651.62	0.0060	P	0.5
3	☐	50.000	46.594	3298575.47	0.2810	A	0.2
4	☐	125.000	113.571	7789890.16	0.6850	A	0.6
5	☐	250.000	232.779	15887079.76	1.4039	A	1.1
6	☐	500.000	484.302	32052548.13	2.9209	A	1.8
7	☐	1000.000	1013.753	64939156.25	6.1141	A	1.0
8	☐			2894.81	0.0003	P	7.0

y = 0.0060 * x + 3.0041E-005
R = 0.9996
DL = 0.001082
BEC = 0.004981

Weight: <None>
Min Conc: 0



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1	☐	1.000		5554729.58		A	1.2
2	☐	1.000		5610938.02		A	1.3
3	☐	1.000		5634044.71		A	0.9
4	☐	1.000		5475035.42		A	0.8
5	☐	1.000		5442284.78		A	1.9
6	☐	1.000		5327301.18		A	0.7
7	☐	1.000		5053311.63		A	1.0
8	☐	1.000		4590031.41		A	1.2

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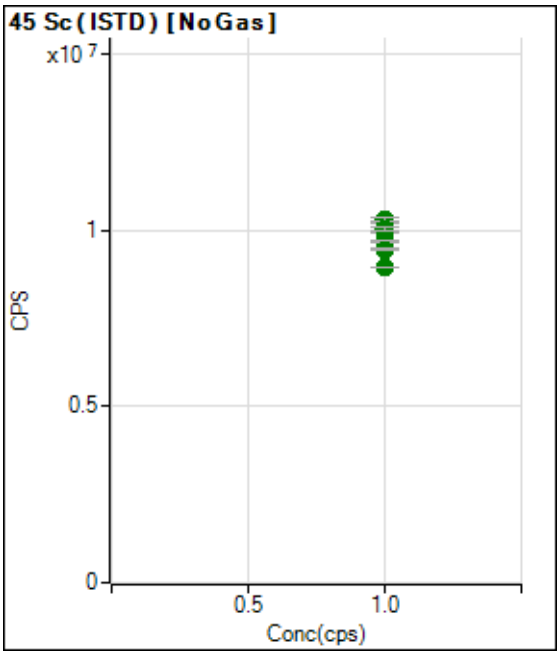

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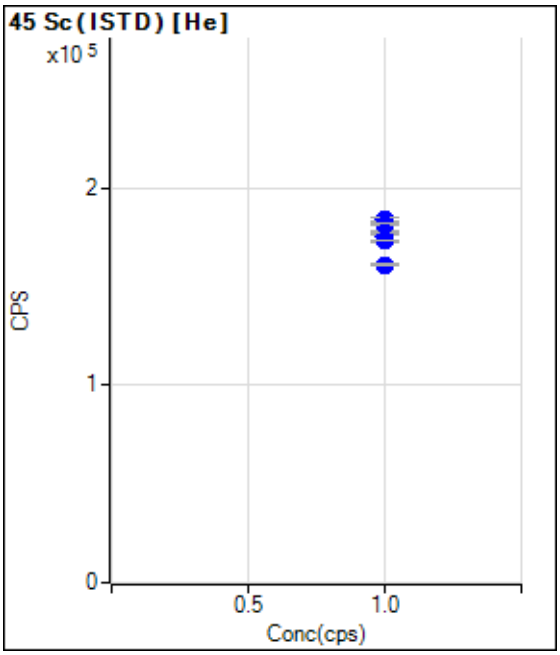
1	☐	1.000		10220352.49		A	0.7
2	☐	1.000		10267148.88		A	0.2
3	☐	1.000		10290717.70		A	1.0
4	☐	1.000		9949608.88		A	0.5
5	☐	1.000		10029078.05		A	0.7
6	☐	1.000		9699543.05		A	0.8
7	☐	1.000		9450286.59		A	0.6
8	☐	1.000		8939755.21		A	0.2



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1	☐	1.000		182603.44		P	0.6
2	☐	1.000		183977.35		P	1.2
3	☐	1.000		181652.58		P	0.8
4	☐	1.000		177386.98		P	0.8
5	☐	1.000		175911.75		P	2.2
6	☐	1.000		173216.20		P	0.7
7	☐	1.000		173448.41		P	0.3
8	☐	1.000		161095.71		P	0.4

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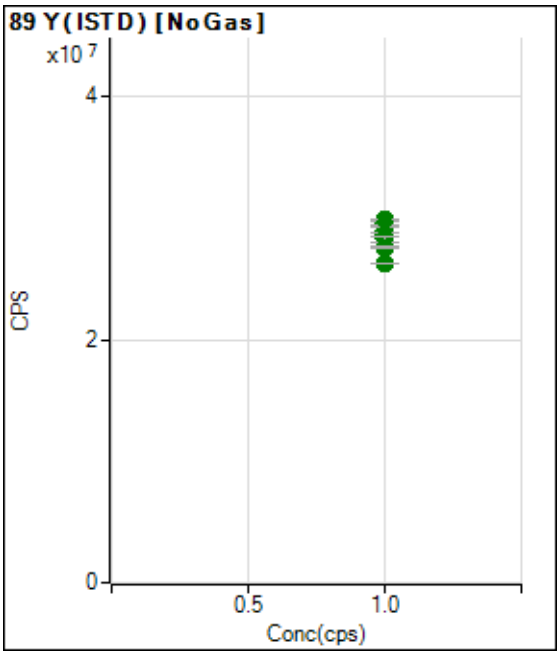

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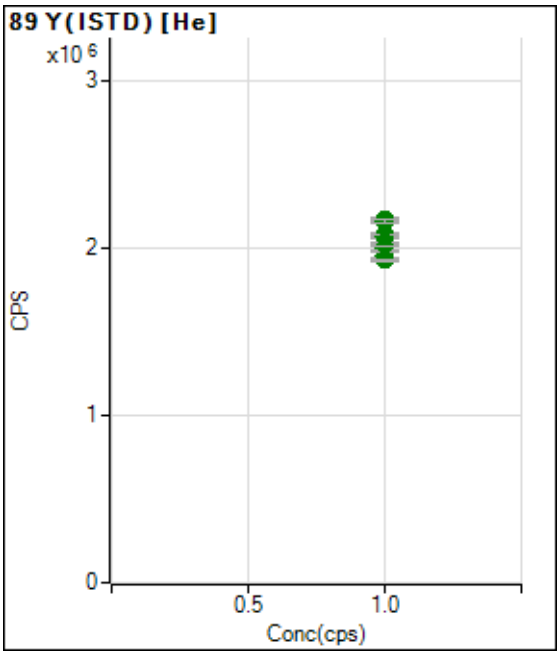
1	☐	1.000		29596251.78		A	0.8
2	☐	1.000		29858269.28		A	0.2
3	☐	1.000		29402839.28		A	0.7
4	☐	1.000		29012531.23		A	1.3
5	☐	1.000		28651413.74		A	0.7
6	☐	1.000		28287243.47		A	1.4
7	☐	1.000		27571723.20		A	0.8
8	☐	1.000		26269189.61		A	0.1



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2164942.01		A	0.9
2	☐	1.000		2158149.31		A	1.5
3	☐	1.000		2077686.15		A	1.4
4	☐	1.000		2062741.24		A	1.1
5	☐	1.000		2025677.19		A	1.0
6	☐	1.000		1996401.79		A	1.5
7	☐	1.000		1955563.06		A	1.6
8	☐	1.000		1922800.14		A	1.0

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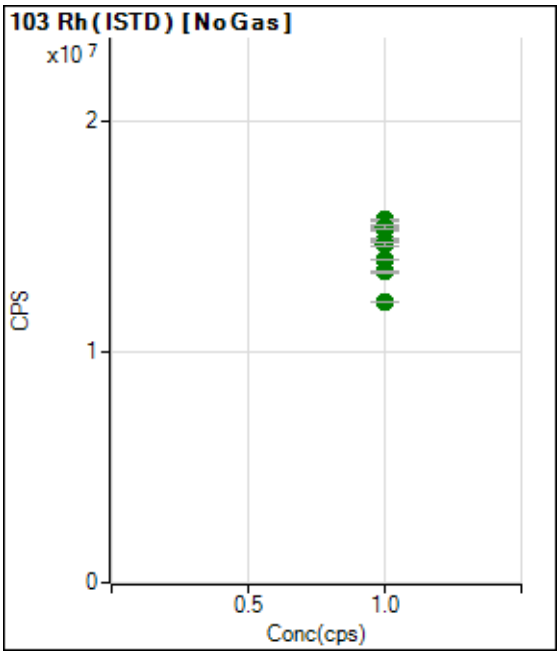
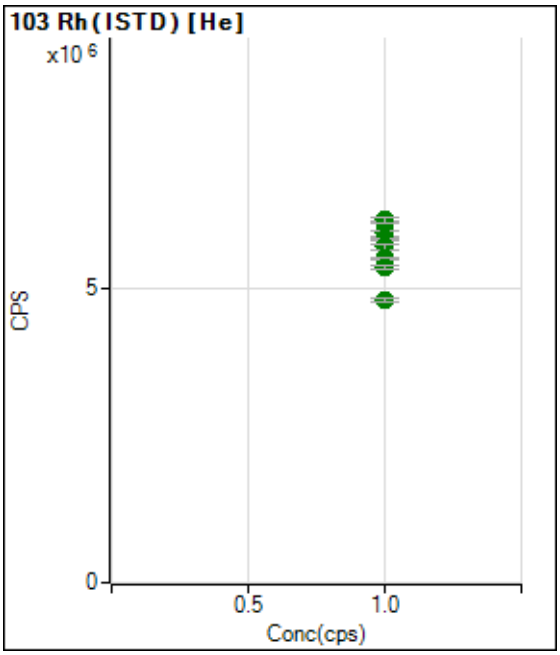


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15279528.39		A	1.0
2	☐	1.000		15692437.54		A	0.7
3	☐	1.000		15403510.74		A	1.2
4	☐	1.000		14817106.58		A	0.5
5	☐	1.000		14630449.64		A	1.6
6	☐	1.000		13970566.74		A	0.5
7	☐	1.000		13441084.94		A	0.3
8	☐	1.000		12115873.71		A	0.2



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1	☐	1.000		6118572.13		A	0.3
2	☐	1.000		6162440.04		A	1.7
3	☐	1.000		5934775.26		A	1.9
4	☐	1.000		5840680.19		A	0.7
5	☐	1.000		5714140.82		A	1.7
6	☐	1.000		5508231.79		A	0.8
7	☐	1.000		5351768.50		A	1.1
8	☐	1.000		4810780.21		A	1.4

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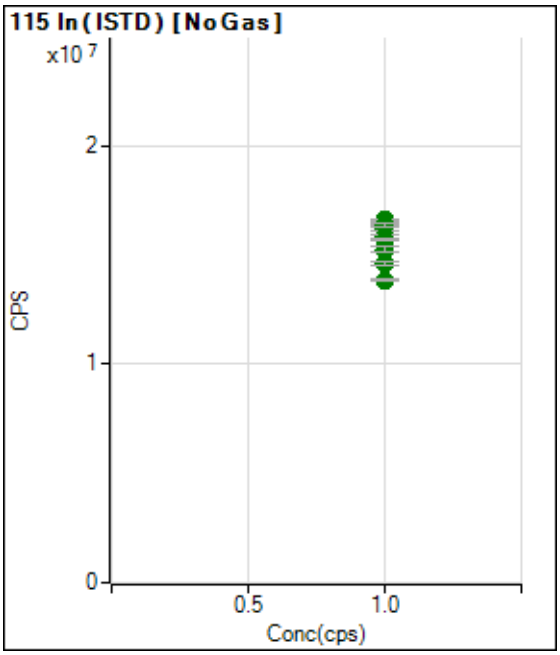
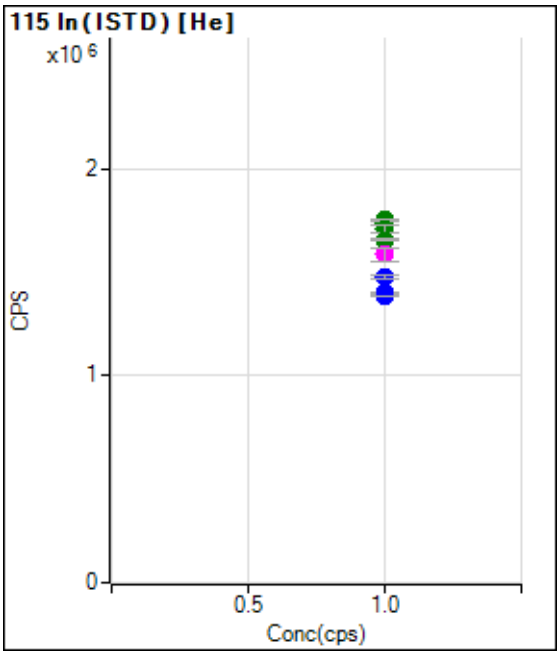


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16224652.17		A	1.5
2	☐	1.000		16607201.04		A	0.6
3	☐	1.000		16396480.42		A	0.9
4	☐	1.000		15840646.09		A	0.9
5	☐	1.000		15705917.69		A	0.9
6	☐	1.000		15249766.57		A	1.5
7	☐	1.000		14645257.26		A	1.1
8	☐	1.000		13856694.69		A	0.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1739113.47		A	0.8
2	☐	1.000		1752430.05		A	0.8
3	☐	1.000		1711096.94		A	2.0
4	☐	1.000		1657009.31		A	0.6
5	☐	1.000		1583973.23		M	4.2
6	☐	1.000		1477575.61		P	1.0
7	☐	1.000		1398655.11		P	0.2
8	☐	1.000		1380998.46		P	0.1

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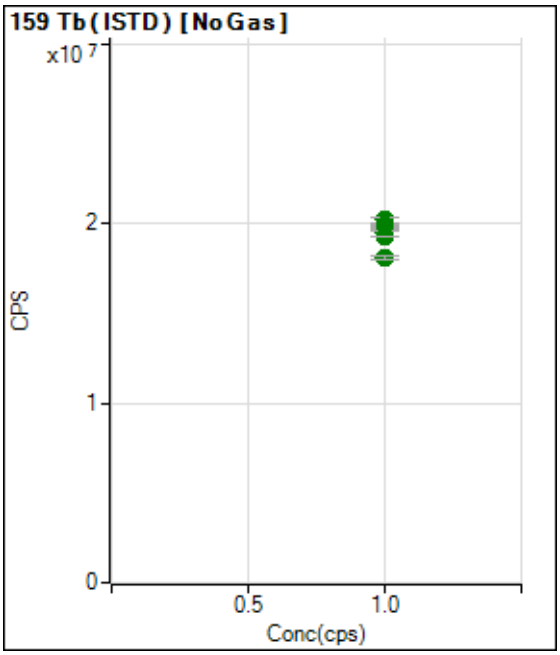
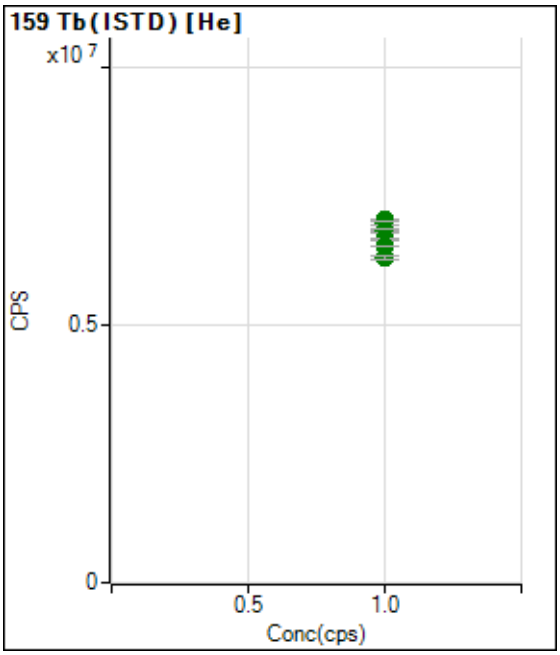
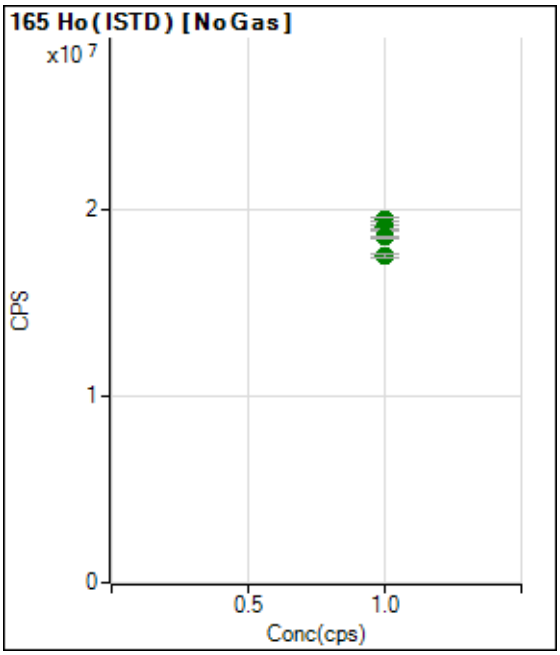


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19863277.07		A	0.8
2	☐	1.000		20205872.06		A	1.7
3	☐	1.000		19968669.01		A	0.4
4	☐	1.000		19760429.85		A	0.7
5	☐	1.000		19700840.54		A	0.2
6	☐	1.000		19451222.62		A	1.3
7	☐	1.000		19264875.41		A	0.3
8	☐	1.000		18084047.09		A	0.9

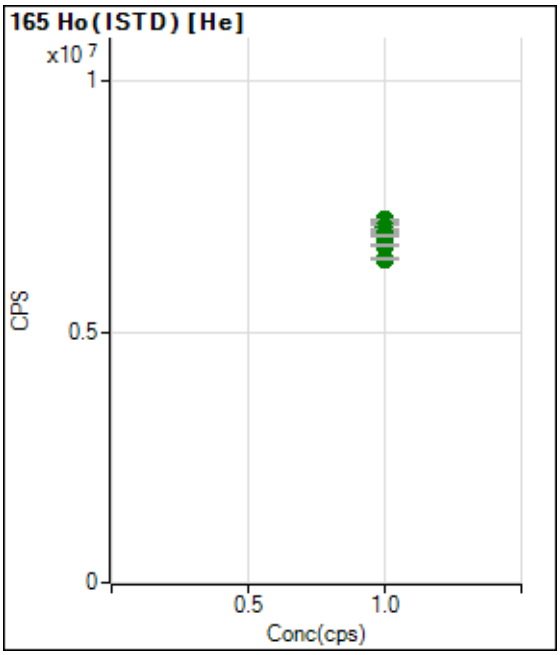


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6979406.22		A	1.1
2	☐	1.000		7045642.33		A	0.7
3	☐	1.000		6968639.62		A	1.0
4	☐	1.000		6846161.28		A	0.8
5	☐	1.000		6830917.47		A	1.4
6	☐	1.000		6668900.80		A	0.8
7	☐	1.000		6536105.94		A	0.3
8	☐	1.000		6298661.71		A	1.1

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

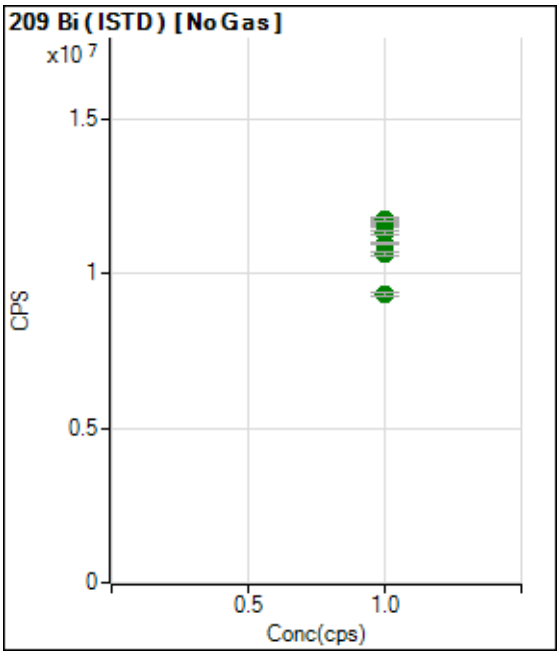


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19079362.77		A	1.2
2	☐	1.000		19365530.68		A	0.2
3	☐	1.000		19445998.74		A	1.0
4	☐	1.000		18977559.58		A	0.4
5	☐	1.000		19047785.41		A	1.8
6	☐	1.000		18916002.36		A	0.8
7	☐	1.000		18541554.58		A	0.7
8	☐	1.000		17495563.21		A	0.9

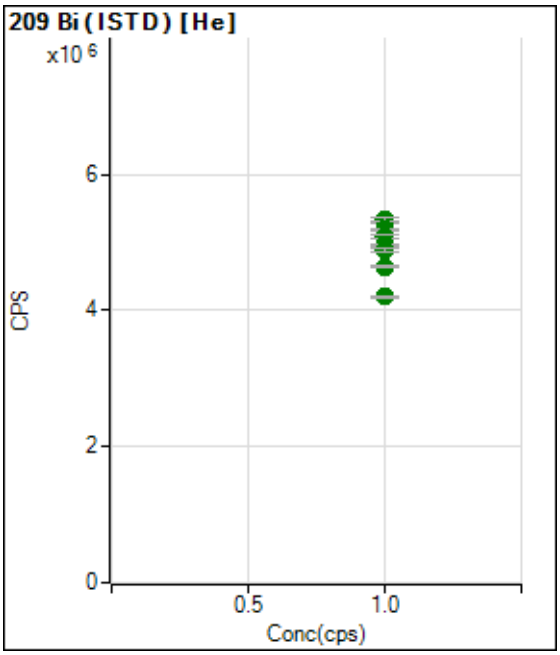


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7165038.51		A	0.4
2	☐	1.000		7241892.67		A	0.8
3	☐	1.000		7108121.28		A	1.1
4	☐	1.000		7040182.74		A	1.0
5	☐	1.000		6953292.26		A	0.9
6	☐	1.000		6924993.72		A	0.8
7	☐	1.000		6735881.43		A	0.1
8	☐	1.000		6467119.42		A	0.6

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11538792.88		A	1.0
2	☐	1.000		11706693.99		A	1.1
3	☐	1.000		11736975.24		A	0.9
4	☐	1.000		11372344.27		A	0.2
5	☐	1.000		11315808.30		A	1.3
6	☐	1.000		10973836.22		A	0.6
7	☐	1.000		10621257.89		A	0.9
8	☐	1.000		9311352.08		A	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5278808.12		A	0.4
2	☐	1.000		5329913.11		A	1.1
3	☐	1.000		5195941.52		A	0.6
4	☐	1.000		5088599.82		A	0.8
5	☐	1.000		4967972.70		A	0.5
6	☐	1.000		4883903.61		A	0.8
7	☐	1.000		4641755.77		A	0.8
8	☐	1.000		4201653.03		A	0.5

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

US EPA Tune Check Report

Operator Name	Jaswal
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\P8051325MS.b
Acq. Date-Time	2025-05-13 14:20:02
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		90849	908490.39			0.738	5.000
24		406568	4065683.03			0.554	5.000
25		56894	568940.55			0.328	5.000
26		64371	643707.01			0.333	5.000
59		367766	3677660.80			0.409	5.000
113		46553	465531.07			0.343	5.000
115		580279	5802785.84			0.889	5.000
206		133323	1333228.70			0.431	5.000
207		112759	1127594.68			0.286	5.000
208		275820	2758198.58			0.697	5.000
220		1	5.20			14.582	

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

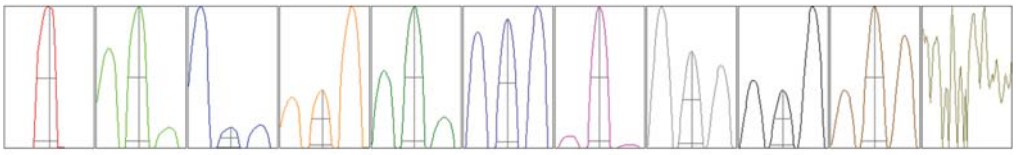
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	90993	91473	90334	89984	91462
24	403860	410102	405904	406653	406322
25	56810	56925	57200	56714	56822
26	64136	64410	64586	64562	64159
59	367082	369803	367591	368538	365816
113	46393	46645	46772	46542	46413
115	585150	576580	586106	579072	574485
206	132954	134071	133046	133792	132751
207	112784	113161	112897	112672	112283
208	274728	274843	279241	275195	275093

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	146555.80	9.05	8.90 - 9.10	
24	690620.44	23.95	23.90 - 24.10	
25	97785.78	24.95	24.90 - 25.10	
26	111889.79	25.95	25.90 - 26.10	
59	642228.44	58.95	58.90 - 59.10	
113	86942.82	113.00	112.90 - 113.10	
115	1090579.19	115.00	114.90 - 115.10	
206	238317.50	206.05	205.90 - 206.10	
207	205443.86	207.00	206.90 - 207.10	
208	496701.26	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.786	0.900	
24	0.62	0.781	0.900	
25	0.62	0.743	0.900	
26	0.62	0.759	0.900	
59	0.61	0.779	0.900	
113	0.57	0.734	0.900	
115	0.56	0.731	0.900	
206	0.58	0.823	0.900	
207	0.57	0.794	0.900	
208	0.58	0.844	0.900	
220				

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

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.72 L/min	Dilution Gas	0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.1 V	Deflect	14.2 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	104	Axis Gain	0.9968	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.3 mm

EM

Discriminator	4.6 mV	Analog HV	2183 V	Pulse HV	964 V

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		65855	658552.25			0.484	
89		56943	569426.88			0.725	
205		91505	915045.30			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	66232	66109	65723	65437	65775
89	57529	57117	56471	56946	56651
205	91553	92044	90998	91612	91315

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	8.1 V	Deflect	3.0 V

US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-75 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	104	Axis Gain	0.9968	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.3 mm		

EM

Discriminator	4.6 mV	Analog HV	2183 V	Pulse HV	964 V

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	DataFile Name :	004CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.09	0.15	-0.23	0.00	N/A	ppb
Antimony	121-1	0.00	0.00	0.00	0.00	N/A	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00	N/A	ppb
Barium	135-1	0.00	0.00	0.01	0.00	N/A	ppb
Barium	137-1	0.00	0.00	0.00	0.00	N/A	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	N/A	ppb
Bismuth	209-1				100		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	0.00	0.04	-0.05	0.00	N/A	ppb
Cadmium	106-1	-0.18	-0.17	0.35	0.00	N/A	ppb
Cadmium	111-1	-0.02	-0.02	0.03	0.00	N/A	ppb
Calcium	43-1	-0.20	1.35	-1.16	0.00	N/A	ppb
Calcium	44-1	0.07	-0.30	0.23	0.00	N/A	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	0.01	-0.01	0.00	N/A	ppb
Cobalt	59-2	0.00	0.00	0.00	0.00	N/A	ppb
Copper	63-2	-0.01	0.00	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	-0.39	0.27	0.12	0.00	N/A	ppb
Iron	56-2	-0.19	0.06	0.13	0.00	N/A	ppb
Iron	57-2	-0.38	0.22	0.15	0.00	N/A	ppb
Krypton	83-1						cps
Lead	206-1	0.00	0.00	0.00	0.00	N/A	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	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	-0.90	0.41	0.49	0.00	N/A	ppb
Manganese	55-2	-0.01	0.03	-0.02	0.00	N/A	ppb
Molybdenum	94-1	0.00	0.00	0.01	0.00	N/A	ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	N/A	ppb
Molybdenum	96-1	0.00	0.00	0.00	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	-0.03	0.02	0.00	0.00	N/A	ppb
Phosphorus	31-2	-16.99	-3.56	-19.86	-13.47		ppb
Potassium	39-2	0.45	0.40	-0.84	0.00	N/A	ppb
Rhodium	103-1				100		%
Rhodium	103-2				100		%
Scandium	45-1				100		%
Scandium	45-2				100		%
Selenium	82-1	-0.10	0.06	0.03	0.00	N/A	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.27	-0.26	0.53	0.00	N/A	ppb
Silicon	28-1	-0.04	0.02	0.02	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	0.86	-0.54	-0.33	0.00	N/A	ppb
Strontium	86-1	0.00	0.00	0.00	0.00	N/A	ppb
Strontium	88-1	0.00	0.00	0.00	0.00	N/A	ppb
Sulfur	34-1	-102.07	-86.82	7.87	-60.34		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	-0.01	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:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	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	-0.03	-0.01	0.04	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:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.36	21.55	19.61	20.51	4.76	ppb
Antimony	121-1	2.07	2.13	2.09	2.10	1.38	ppb
Arsenic	75-2	1.06	1.28	0.96	1.10	14.68	ppb
Barium	135-1	10.19	10.63	10.55	10.46	2.22	ppb
Barium	137-1	10.38	10.89	10.73	10.66	2.44	ppb
Beryllium	9-1	1.19	1.21	1.22	1.21	1.33	ppb
Bismuth	209-1				101		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.25	1.05	1.15	1.15	9.03	ppb
Cadmium	106-1	1.39	1.77	1.70	1.62	12.51	ppb
Cadmium	111-1	1.17	1.20	1.18	1.18	1.02	ppb
Calcium	43-1	549.62	557.60	557.57	554.93	0.83	ppb
Calcium	44-1	544.13	551.56	545.31	547.00	0.73	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.19	2.21	2.12	2.17	2.10	ppb
Cobalt	59-2	1.13	1.19	1.16	1.16	2.54	ppb
Copper	63-2	2.36	2.37	2.39	2.37	0.62	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				101		%
Indium	115-1				102		%
Indium	115-2				101		%
Iron	54-2	57.62	58.01	57.56	57.73	0.42	ppb
Iron	56-2	56.44	56.59	56.29	56.44	0.27	ppb
Iron	57-2	56.75	58.20	54.71	56.56	3.10	ppb
Krypton	83-1						cps
Lead	206-1	1.01	0.98	0.98	0.99	1.76	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1.02	0.99	1.01	1.01	1.27	ppb
Lead	208-1	1.02	1.00	1.00	1.01	1.11	ppb
Lithium	6-1				101		%
Magnesium	24-2	581.46	588.83	585.43	585.24	0.63	ppb
Manganese	55-2	1.11	1.12	1.18	1.14	3.35	ppb
Molybdenum	94-1	6.16	6.18	6.13	6.16	0.40	ppb
Molybdenum	95-1	5.15	5.13	5.21	5.16	0.84	ppb
Molybdenum	96-1	5.23	5.33	5.32	5.30	1.01	ppb
Molybdenum	97-1	5.23	5.30	5.18	5.24	1.09	ppb
Molybdenum	98-1	5.15	5.23	5.16	5.18	0.81	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.17	1.23	1.18	1.20	2.84	ppb
Phosphorus	31-2	10.03	17.88	12.49	13.47	29.79	ppb
Potassium	39-2	521.96	537.14	539.34	532.81	1.78	ppb
Rhodium	103-1				103		%
Rhodium	103-2				101		%
Scandium	45-1				100		%
Scandium	45-2				101		%
Selenium	82-1	5.80	5.81	5.46	5.69	3.57	ppb
Selenium	77-2	4.92	9.40	7.88	7.40	30.77	ppb
Selenium	78-2	4.01	5.34	4.97	4.77	14.42	ppb
Silicon	28-1	1.07	0.85	0.87	0.93	12.96	ppb
Silver	107-1	1.04	1.10	1.12	1.09	3.74	ppb
Silver	109-1	1.05	1.14	1.10	1.10	4.17	ppb
Sodium	23-2	575.00	575.49	584.82	578.44	0.96	ppb
Strontium	86-1	1.03	1.03	1.03	1.03	0.37	ppb
Strontium	88-1	1.05	1.04	1.06	1.05	0.87	ppb
Sulfur	34-1	42.40	68.29	70.32	60.34	25.80	ppb
Terbium	159-1				102		%
Terbium	159-2				101		%
Thallium	203-1	0.97	0.98	1.03	0.99	3.32	ppb
Thallium	205-1	1.01	1.01	1.02	1.01	0.54	ppb
Tin	118-1	5.21	5.32	5.30	5.28	1.16	ppb
Titanium	47-1	5.54	5.45	5.64	5.54	1.72	ppb
Uranium	238-1	1.00	0.99	1.00	1.00	0.48	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.64	5.58	5.56	5.59	0.71	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	5.38	5.57	5.43	5.46	1.84	ppb
Zirconium	90-1	1.03	1.05	1.02	1.04	1.56	ppb
Zirconium	91-1	0.99	1.04	1.05	1.03	3.48	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1030.44	1004.78	1010.85	1015.36	1.32	ppb
Antimony	121-1	48.34	48.46	48.91	48.57	0.62	ppb
Arsenic	75-2	49.33	51.63	50.15	50.37	2.31	ppb
Barium	135-1	236.78	238.21	241.64	238.88	1.04	ppb
Barium	137-1	250.79	251.01	257.34	253.05	1.47	ppb
Beryllium	9-1	52.67	53.87	53.02	53.19	1.16	ppb
Bismuth	209-1				102		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	52.18	50.70	51.67	51.52	1.46	ppb
Cadmium	106-1	52.65	51.98	51.65	52.09	0.98	ppb
Cadmium	111-1	49.93	50.29	50.82	50.35	0.89	ppb
Calcium	43-1	4873.19	4954.29	4959.23	4928.90	0.98	ppb
Calcium	44-1	4846.43	4882.48	4834.80	4854.57	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	49.19	49.18	49.62	49.33	0.51	ppb
Cobalt	59-2	50.42	50.45	50.43	50.43	0.03	ppb
Copper	63-2	531.75	532.41	530.37	531.51	0.20	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				102		%
Holmium	165-2				99		%
Indium	115-1				101		%
Indium	115-2				98		%
Iron	54-2	2554.33	2565.10	2556.62	2558.68	0.22	ppb
Iron	56-2	2528.24	2548.33	2553.40	2543.32	0.52	ppb
Iron	57-2	2517.01	2558.87	2531.60	2535.83	0.84	ppb
Krypton	83-1						cps
Lead	206-1	236.39	241.16	238.48	238.68	1.00	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	242.21	240.59	243.16	241.99	0.54	ppb
Lead	208-1	239.88	240.03	239.44	239.78	0.13	ppb
Lithium	6-1				101		%
Magnesium	24-2	5221.15	5238.17	5433.86	5297.73	2.23	ppb
Manganese	55-2	490.82	495.58	501.04	495.81	1.03	ppb
Molybdenum	94-1	481.98	485.35	484.33	483.89	0.36	ppb
Molybdenum	95-1	477.13	480.90	487.06	481.69	1.04	ppb
Molybdenum	96-1	480.72	491.19	494.50	488.80	1.47	ppb
Molybdenum	97-1	478.39	490.33	499.84	489.52	2.20	ppb
Molybdenum	98-1	480.20	481.83	497.77	486.60	1.99	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	50.81	50.65	50.41	50.62	0.39	ppb
Phosphorus	31-2	952.22	1017.15	959.17	976.18	3.65	ppb
Potassium	39-2	2439.31	2460.27	2468.65	2456.08	0.62	ppb
Rhodium	103-1				101		%
Rhodium	103-2				97		%
Scandium	45-1				101		%
Scandium	45-2				99		%
Selenium	82-1	49.88	50.04	50.57	50.16	0.72	ppb
Selenium	77-2	51.03	58.34	53.58	54.32	6.83	ppb
Selenium	78-2	44.82	54.26	53.24	50.77	10.21	ppb
Silicon	28-1	49.74	51.55	50.10	50.46	1.90	ppb
Silver	107-1	49.97	50.43	50.42	50.27	0.53	ppb
Silver	109-1	50.38	50.66	50.84	50.63	0.46	ppb
Sodium	23-2	5160.06	5150.56	5184.11	5164.91	0.33	ppb
Strontium	86-1	46.84	47.03	48.14	47.34	1.49	ppb
Strontium	88-1	48.35	48.28	48.83	48.49	0.62	ppb
Sulfur	34-1	1235.82	1424.98	1379.94	1346.91	7.34	ppb
Terbium	159-1				101		%
Terbium	159-2				100		%
Thallium	203-1	45.02	45.37	45.02	45.13	0.45	ppb
Thallium	205-1	47.22	47.93	47.54	47.56	0.75	ppb
Tin	118-1	47.98	48.39	48.33	48.23	0.46	ppb
Titanium	47-1	480.73	490.30	484.98	485.34	0.99	ppb
Uranium	238-1	46.57	46.71	46.50	46.59	0.23	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	49.18	48.60	48.97	48.92	0.60	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				96		%
Zinc	66-2	508.26	511.79	512.01	510.69	0.41	ppb
Zirconium	90-1	48.07	48.54	48.03	48.21	0.59	ppb
Zirconium	91-1	46.21	46.69	47.39	46.76	1.27	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2475.03	2500.75	2465.96	2480.58	0.73	ppb
Antimony	121-1	135.15	137.46	137.09	136.57	0.91	ppb
Arsenic	75-2	117.65	120.21	121.11	119.66	1.50	ppb
Barium	135-1	593.32	600.74	599.25	597.77	0.66	ppb
Barium	137-1	595.92	596.76	586.93	593.20	0.92	ppb
Beryllium	9-1	127.22	128.66	127.65	127.84	0.58	ppb
Bismuth	209-1				99		%
Bismuth	209-2				96		%
Bromine	81-1						cps
Cadmium	108-1	121.69	122.65	123.67	122.67	0.81	ppb
Cadmium	106-1	121.21	122.19	124.39	122.60	1.33	ppb
Cadmium	111-1	119.01	118.74	121.38	119.71	1.21	ppb
Calcium	43-1	11852.66	12025.39	12124.46	12000.83	1.15	ppb
Calcium	44-1	11761.77	11945.07	12144.99	11950.61	1.60	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	118.63	121.21	119.88	119.90	1.08	ppb
Cobalt	59-2	119.42	123.00	121.64	121.35	1.49	ppb
Copper	63-2	1250.09	1261.85	1260.87	1257.60	0.52	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				98		%
Indium	115-1				98		%
Indium	115-2				95		%
Iron	54-2	6201.09	6324.62	6257.69	6261.13	0.99	ppb
Iron	56-2	6176.27	6321.01	6294.14	6263.81	1.23	ppb
Iron	57-2	6066.74	6135.02	6145.29	6115.68	0.70	ppb
Krypton	83-1						cps
Lead	206-1	589.83	590.96	602.49	594.43	1.18	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	600.40	598.14	603.58	600.71	0.46	ppb
Lead	208-1	597.84	600.63	602.29	600.25	0.37	ppb
Lithium	6-1				99		%
Magnesium	24-2	12538.90	12806.30	12823.12	12722.77	1.25	ppb
Manganese	55-2	1235.21	1243.62	1225.95	1234.92	0.72	ppb
Molybdenum	94-1	1151.24	1169.52	1157.25	1159.34	0.80	ppb
Molybdenum	95-1	1166.83	1164.26	1151.05	1160.71	0.73	ppb
Molybdenum	96-1	1165.53	1175.53	1149.10	1163.39	1.15	ppb
Molybdenum	97-1	1151.99	1174.12	1138.16	1154.75	1.57	ppb
Molybdenum	98-1	1153.69	1193.50	1161.51	1169.57	1.80	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	122.91	127.22	126.12	125.42	1.79	ppb
Phosphorus	31-2	2526.24	2589.81	2423.16	2513.07	3.35	ppb
Potassium	39-2	6009.91	6100.94	6052.67	6054.51	0.75	ppb
Rhodium	103-1				97		%
Rhodium	103-2				95		%
Scandium	45-1				97		%
Scandium	45-2				97		%
Selenium	82-1	120.11	121.13	118.48	119.91	1.11	ppb
Selenium	77-2	129.43	126.75	129.85	128.68	1.31	ppb
Selenium	78-2	114.39	122.22	119.05	118.55	3.32	ppb
Silicon	28-1	123.35	125.14	122.08	123.52	1.24	ppb
Silver	107-1	125.15	122.62	128.07	125.28	2.17	ppb
Silver	109-1	125.64	125.48	126.93	126.02	0.63	ppb
Sodium	23-2	12323.95	12629.60	12540.86	12498.13	1.26	ppb
Strontium	86-1	112.76	115.31	113.00	113.69	1.24	ppb
Strontium	88-1	116.51	119.54	118.04	118.03	1.28	ppb
Sulfur	34-1	3166.01	3269.75	3271.80	3235.85	1.87	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	114.64	117.68	116.62	116.31	1.32	ppb
Thallium	205-1	114.87	115.56	117.44	115.96	1.15	ppb
Tin	118-1	121.33	120.28	122.31	121.30	0.84	ppb
Titanium	47-1	1186.51	1182.82	1200.18	1189.84	0.77	ppb
Uranium	238-1	113.02	114.31	113.38	113.57	0.58	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	119.16	120.95	119.45	119.86	0.80	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				98		%
Yttrium	89-2				95		%
Zinc	66-2	1392.02	1415.81	1420.15	1409.32	1.07	ppb
Zirconium	90-1	116.58	118.31	113.09	116.00	2.29	ppb
Zirconium	91-1	112.42	114.23	111.37	112.67	1.29	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	4979.81	5118.93	4895.05	4997.93	2.26	ppb
Antimony	121-1	241.66	245.66	246.60	244.64	1.07	ppb
Arsenic	75-2	241.09	248.12	242.37	243.86	1.53	ppb
Barium	135-1	1185.60	1229.43	1208.99	1208.01	1.82	ppb
Barium	137-1	1196.37	1210.73	1229.11	1212.07	1.35	ppb
Beryllium	9-1	249.44	239.59	243.75	244.26	2.03	ppb
Bismuth	209-1				98		%
Bismuth	209-2				94		%
Bromine	81-1						cps
Cadmium	108-1	244.00	252.76	249.59	248.78	1.78	ppb
Cadmium	106-1	246.65	249.21	249.68	248.52	0.66	ppb
Cadmium	111-1	239.53	242.79	240.22	240.85	0.71	ppb
Calcium	43-1	24375.70	24488.72	24029.12	24297.85	0.99	ppb
Calcium	44-1	24195.03	24167.81	23810.43	24057.76	0.89	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	239.41	245.44	238.67	241.17	1.54	ppb
Cobalt	59-2	251.78	256.44	251.47	253.23	1.10	ppb
Copper	63-2	2535.00	2612.28	2506.40	2551.23	2.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				97		%
Indium	115-2				91		%
Iron	54-2	12825.91	12973.84	12680.08	12826.61	1.15	ppb
Iron	56-2	12411.70	12681.47	12374.88	12489.35	1.34	ppb
Iron	57-2	12162.71	12489.84	12228.11	12293.55	1.41	ppb
Krypton	83-1						cps
Lead	206-1	1188.71	1175.81	1185.97	1183.50	0.57	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	1194.31	1175.70	1209.19	1193.06	1.41	ppb
Lead	208-1	1199.53	1180.21	1201.13	1193.63	0.98	ppb
Lithium	6-1				98		%
Magnesium	24-2	25457.03	26194.20	25261.26	25637.50	1.92	ppb
Manganese	55-2	2478.42	2509.88	2420.81	2469.70	1.83	ppb
Molybdenum	94-1	2376.34	2393.23	2354.00	2374.52	0.83	ppb
Molybdenum	95-1	2374.16	2383.41	2379.54	2379.04	0.20	ppb
Molybdenum	96-1	2391.49	2382.13	2431.82	2401.81	1.10	ppb
Molybdenum	97-1	2347.08	2379.49	2385.04	2370.54	0.86	ppb
Molybdenum	98-1	2368.66	2414.41	2391.76	2391.61	0.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	242.36	249.61	240.64	244.20	1.95	ppb
Phosphorus	31-2	4828.93	5015.33	5013.15	4952.47	2.16	ppb
Potassium	39-2	12080.83	12329.93	12014.54	12141.77	1.37	ppb
Rhodium	103-1				96		%
Rhodium	103-2				93		%
Scandium	45-1				98		%
Scandium	45-2				96		%
Selenium	82-1	244.20	244.79	244.44	244.47	0.12	ppb
Selenium	77-2	245.45	252.80	227.24	241.83	5.44	ppb
Selenium	78-2	239.17	244.89	247.38	243.81	1.73	ppb
Silicon	28-1	246.58	247.39	239.27	244.41	1.83	ppb
Silver	107-1	249.32	250.12	253.21	250.88	0.82	ppb
Silver	109-1	251.84	253.61	255.37	253.61	0.69	ppb
Sodium	23-2	25400.24	25946.13	24899.29	25415.22	2.06	ppb
Strontium	86-1	244.57	246.39	240.90	243.95	1.15	ppb
Strontium	88-1	239.39	238.54	241.94	239.96	0.74	ppb
Sulfur	34-1	6194.19	6089.51	6008.33	6097.34	1.53	ppb
Terbium	159-1				99		%
Terbium	159-2				98		%
Thallium	203-1	236.25	236.36	235.27	235.96	0.25	ppb
Thallium	205-1	237.70	235.21	233.64	235.52	0.87	ppb
Tin	118-1	243.42	242.06	247.26	244.24	1.11	ppb
Titanium	47-1	2354.78	2367.22	2355.03	2359.01	0.30	ppb
Uranium	238-1	231.70	230.85	235.79	232.78	1.13	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	238.66	247.00	236.92	240.86	2.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				97		%
Yttrium	89-2				94		%
Zinc	66-2	2592.76	2622.50	2561.13	2592.13	1.18	ppb
Zirconium	90-1	239.16	243.49	238.14	240.26	1.18	ppb
Zirconium	91-1	237.49	242.74	240.68	240.30	1.10	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	10108.54	9900.08	10187.11	10065.25	1.47	ppb
Antimony	121-1	480.50	505.25	502.85	496.20	2.75	ppb
Arsenic	75-2	492.41	497.52	483.69	491.21	1.42	ppb
Barium	135-1	2382.19	2499.68	2446.28	2442.72	2.41	ppb
Barium	137-1	2392.76	2520.56	2489.50	2467.61	2.70	ppb
Beryllium	9-1	489.45	500.12	493.58	494.38	1.09	ppb
Bismuth	209-1				95		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	488.77	511.44	510.28	503.50	2.54	ppb
Cadmium	106-1	484.98	514.05	498.77	499.27	2.91	ppb
Cadmium	111-1	499.43	517.40	506.00	507.61	1.79	ppb
Calcium	43-1	49472.81	50717.96	50525.63	50238.80	1.33	ppb
Calcium	44-1	49233.44	50395.75	49434.47	49687.89	1.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	512.51	503.35	507.60	507.82	0.90	ppb
Cobalt	59-2	501.08	501.10	510.23	504.14	1.05	ppb
Copper	63-2	5124.71	5026.56	4993.02	5048.10	1.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				99		%
Holmium	165-2				97		%
Indium	115-1				94		%
Indium	115-2				85		%
Iron	54-2	25824.92	25237.11	25503.23	25521.75	1.15	ppb
Iron	56-2	25221.06	25001.51	25497.93	25240.17	0.99	ppb
Iron	57-2	25528.97	25979.61	25706.28	25738.29	0.88	ppb
Krypton	83-1						cps
Lead	206-1	2404.69	2447.28	2456.62	2436.20	1.14	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2392.63	2450.79	2480.84	2441.42	1.84	ppb
Lead	208-1	2411.47	2452.19	2477.43	2447.03	1.36	ppb
Lithium	6-1				96		%
Magnesium	24-2	52249.15	51037.86	52076.59	51787.87	1.27	ppb
Manganese	55-2	5000.60	5002.08	4958.99	4987.22	0.49	ppb
Molybdenum	94-1	4834.41	4917.88	4880.18	4877.49	0.86	ppb
Molybdenum	95-1	4776.64	4927.11	4893.80	4865.85	1.62	ppb
Molybdenum	96-1	4816.52	4958.41	4986.93	4920.62	1.85	ppb
Molybdenum	97-1	4782.85	4971.41	4946.79	4900.35	2.09	ppb
Molybdenum	98-1	4780.91	4968.03	4899.34	4882.76	1.94	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	482.54	483.45	485.23	483.74	0.28	ppb
Phosphorus	31-2	10113.95	10100.95	9997.83	10070.91	0.63	ppb
Potassium	39-2	25331.51	24409.55	24657.08	24799.38	1.92	ppb
Rhodium	103-1				91		%
Rhodium	103-2				90		%
Scandium	45-1				95		%
Scandium	45-2				95		%
Selenium	82-1	481.73	501.76	506.83	496.77	2.67	ppb
Selenium	77-2	496.75	512.62	461.77	490.38	5.31	ppb
Selenium	78-2	491.03	490.06	491.75	490.95	0.17	ppb
Silicon	28-1	488.20	499.93	507.53	498.55	1.95	ppb
Silver	107-1	490.33	516.40	510.31	505.68	2.70	ppb
Silver	109-1	495.09	516.52	514.46	508.69	2.32	ppb
Sodium	23-2	52330.16	50952.56	51979.32	51754.01	1.38	ppb
Strontium	86-1	487.04	494.59	497.06	492.90	1.06	ppb
Strontium	88-1	485.66	491.68	500.19	492.51	1.48	ppb
Sulfur	34-1	9535.61	9977.87	9804.93	9772.80	2.28	ppb
Terbium	159-1				98		%
Terbium	159-2				96		%
Thallium	203-1	476.97	487.78	486.87	483.87	1.24	ppb
Thallium	205-1	482.58	491.54	498.50	490.87	1.63	ppb
Tin	118-1	479.37	501.87	493.92	491.72	2.32	ppb
Titanium	47-1	4874.45	4984.63	4913.23	4924.10	1.14	ppb
Uranium	238-1	475.31	484.77	492.82	484.30	1.81	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	507.59	498.90	490.96	499.15	1.67	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				96		%
Yttrium	89-2				92		%
Zinc	66-2	5157.87	5039.63	5116.36	5104.62	1.18	ppb
Zirconium	90-1	478.55	495.81	490.79	488.38	1.82	ppb
Zirconium	91-1	476.96	498.72	497.69	491.12	2.50	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20252.93	20749.16	20402.67	20468.25	1.24	ppb
Antimony	121-1	993.43	1005.22	1006.94	1001.86	0.73	ppb
Arsenic	75-2	992.30	1030.16	997.27	1006.58	2.04	ppb
Barium	135-1	4954.03	5076.26	5099.00	5043.10	1.55	ppb
Barium	137-1	4976.83	5015.80	5095.87	5029.50	1.21	ppb
Beryllium	9-1	981.85	1013.64	1015.70	1003.73	1.89	ppb
Bismuth	209-1				92		%
Bismuth	209-2				88		%
Bromine	81-1						cps
Cadmium	108-1	984.92	1003.06	1008.34	998.77	1.23	ppb
Cadmium	106-1	994.32	998.64	1009.84	1000.93	0.80	ppb
Cadmium	111-1	982.61	995.15	1019.62	999.13	1.88	ppb
Calcium	43-1	100441.86	101642.35	100997.08	101027.10	0.59	ppb
Calcium	44-1	100434.38	103291.24	101219.31	101648.31	1.45	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	1005.79	990.26	1000.85	998.97	0.79	ppb
Cobalt	59-2	1005.72	995.75	991.21	997.56	0.74	ppb
Copper	63-2	9930.30	10068.91	9882.65	9960.62	0.97	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				97		%
Holmium	165-2				94		%
Indium	115-1				90		%
Indium	115-2				80		%
Iron	54-2	51373.29	51182.03	51408.82	51321.38	0.24	ppb
Iron	56-2	50174.25	50579.10	50424.14	50392.50	0.41	ppb
Iron	57-2	50660.70	51198.23	49713.79	50524.24	1.49	ppb
Krypton	83-1						cps
Lead	206-1	5028.85	4981.67	5148.22	5052.92	1.70	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5031.60	4963.75	5145.53	5046.96	1.82	ppb
Lead	208-1	5042.48	4997.18	5092.89	5044.18	0.95	ppb
Lithium	6-1				91		%
Magnesium	24-2	103570.09	105105.98	104521.85	104399.31	0.74	ppb
Manganese	55-2	10054.25	10049.27	9944.64	10016.06	0.62	ppb
Molybdenum	94-1	9970.07	10073.57	10270.64	10104.76	1.51	ppb
Molybdenum	95-1	10026.50	10025.79	10275.89	10109.39	1.43	ppb
Molybdenum	96-1	9933.07	10026.88	10266.92	10075.62	1.71	ppb
Molybdenum	97-1	9926.10	10118.76	10239.00	10094.62	1.56	ppb
Molybdenum	98-1	9922.00	10019.87	10347.45	10096.44	2.21	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1013.26	1021.91	993.32	1009.50	1.45	ppb
Phosphorus	31-2	20090.41	20086.37	19751.18	19975.99	0.97	ppb
Potassium	39-2	49564.55	48909.00	49336.17	49269.91	0.68	ppb
Rhodium	103-1				88		%
Rhodium	103-2				87		%
Scandium	45-1				92		%
Scandium	45-2				95		%
Selenium	82-1	986.70	1002.31	1021.85	1003.62	1.75	ppb
Selenium	77-2	1015.41	1010.37	992.71	1006.17	1.19	ppb
Selenium	78-2	996.49	1037.64	986.39	1006.84	2.70	ppb
Silicon	28-1	1001.99	1014.96	990.16	1002.37	1.24	ppb
Silver	107-1	991.45	1001.28	997.94	996.89	0.50	ppb
Silver	109-1	988.29	992.11	1003.37	994.59	0.79	ppb
Sodium	23-2	103619.67	105221.70	104255.06	104365.48	0.77	ppb
Strontium	86-1	998.92	1006.62	1014.28	1006.61	0.76	ppb
Strontium	88-1	994.68	1006.85	1020.08	1007.20	1.26	ppb
Sulfur	34-1	19555.21	19925.31	19709.29	19729.94	0.94	ppb
Terbium	159-1				97		%
Terbium	159-2				94		%
Thallium	203-1	1012.78	995.33	1030.60	1012.90	1.74	ppb
Thallium	205-1	1010.19	997.41	1020.72	1009.44	1.16	ppb
Tin	118-1	1000.90	1002.24	1015.24	1006.13	0.79	ppb
Titanium	47-1	9995.20	10177.50	10071.65	10081.45	0.91	ppb
Uranium	238-1	1005.10	1011.93	1024.23	1013.75	0.96	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	1007.52	999.42	1003.27	1003.40	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				93		%
Yttrium	89-2				90		%
Zinc	66-2	9832.81	10019.51	9860.30	9904.21	1.02	ppb
Zirconium	90-1	992.93	1006.77	1028.67	1009.46	1.79	ppb
Zirconium	91-1	998.03	1008.07	1019.59	1008.57	1.07	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	99570.51	100322.88	99807.40	99900.26	0.39	ppb
Antimony	121-1	0.77	0.75	0.74	0.75	1.94	ppb
Arsenic	75-2	0.48	0.52	0.45	0.48	6.92	ppb
Barium	135-1	1.98	2.05	2.01	2.01	1.86	ppb
Barium	137-1	2.01	2.07	2.08	2.05	1.85	ppb
Beryllium	9-1	0.12	0.11	0.10	0.11	9.21	ppb
Bismuth	209-1				81		%
Bismuth	209-2				80		%
Bromine	81-1						cps
Cadmium	108-1	0.50	0.47	0.37	0.45	15.83	ppb
Cadmium	106-1	0.39	-0.31	0.16	0.08	444.14	ppb
Cadmium	111-1	0.17	0.12	0.14	0.14	17.10	ppb
Calcium	43-1	498380.19	499092.74	501983.90	499818.94	0.38	ppb
Calcium	44-1	494945.53	500336.43	504009.45	499763.80	0.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	9.18	8.98	8.91	9.02	1.57	ppb
Cobalt	59-2	2.10	2.15	2.13	2.13	1.14	ppb
Copper	63-2	2.58	2.66	2.60	2.61	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				92		%
Holmium	165-2				90		%
Indium	115-1				85		%
Indium	115-2				79		%
Iron	54-2	252434.70	248607.89	247956.47	249666.35	0.97	ppb
Iron	56-2	251537.01	248830.18	249324.52	249897.24	0.58	ppb
Iron	57-2	251102.33	250304.33	248097.28	249834.64	0.62	ppb
Krypton	83-1						cps
Lead	206-1	5.79	5.89	5.82	5.83	0.90	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	5.90	6.03	5.88	5.94	1.44	ppb
Lead	208-1	5.83	5.96	5.87	5.89	1.16	ppb
Lithium	6-1				83		%
Magnesium	24-2	501828.42	506593.09	488281.02	498900.84	1.90	ppb
Manganese	55-2	5.86	5.86	5.94	5.89	0.75	ppb
Molybdenum	94-1	2.17	2.03	2.03	2.07	3.87	ppb
Molybdenum	95-1	1.43	1.37	1.34	1.38	3.52	ppb
Molybdenum	96-1	2.39	2.39	2.28	2.35	2.49	ppb
Molybdenum	97-1	1.41	1.33	1.26	1.33	5.48	ppb
Molybdenum	98-1	1.38	1.34	1.26	1.33	4.46	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	4.80	4.95	4.92	4.89	1.58	ppb
Phosphorus	31-2	-3.58	-8.87	-0.70	-4.38		ppb
Potassium	39-2	250411.85	249333.90	250822.00	250189.25	0.31	ppb
Rhodium	103-1				79		%
Rhodium	103-2				79		%
Scandium	45-1				87		%
Scandium	45-2				88		%
Selenium	82-1	0.60	0.61	0.95	0.72	27.11	ppb
Selenium	77-2	0.61	0.00	1.87	0.83	115.05	ppb
Selenium	78-2	1.39	0.53	0.52	0.81	61.97	ppb
Silicon	28-1	2.84	2.51	2.32	2.56	10.21	ppb
Silver	107-1	0.11	0.10	0.08	0.10	12.26	ppb
Silver	109-1	0.09	0.09	0.08	0.09	5.78	ppb
Sodium	23-2	499295.06	499738.44	497753.68	498929.06	0.21	ppb
Strontium	86-1	3.26	3.25	3.28	3.26	0.47	ppb
Strontium	88-1	3.24	3.29	3.22	3.25	1.05	ppb
Sulfur	34-1	-162.36	-123.43	-130.94	-138.91		ppb
Terbium	159-1				91		%
Terbium	159-2				90		%
Thallium	203-1	0.10	0.09	0.08	0.09	12.41	ppb
Thallium	205-1	0.10	0.10	0.08	0.09	12.37	ppb
Tin	118-1	0.18	0.16	0.16	0.17	7.71	ppb
Titanium	47-1	0.90	0.89	0.98	0.92	5.34	ppb
Uranium	238-1	0.05	0.05	0.04	0.05	7.73	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.26	0.27	0.29	0.27	5.22	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				89		%
Yttrium	89-2				89		%
Zinc	66-2	60.01	61.95	59.54	60.50	2.11	ppb
Zirconium	90-1	0.48	0.47	0.47	0.47	1.10	ppb
Zirconium	91-1	0.47	0.49	0.46	0.48	3.08	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	497.11	491.86	489.82	492.93	0.76	ppb
Antimony	121-1	198.35	202.18	202.33	200.95	1.12	ppb
Arsenic	75-2	201.19	200.29	202.51	201.33	0.55	ppb
Barium	135-1	97.84	98.75	101.31	99.30	1.81	ppb
Barium	137-1	99.55	100.25	100.98	100.26	0.71	ppb
Beryllium	9-1	108.01	108.26	109.77	108.68	0.88	ppb
Bismuth	209-1				105		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	87.24	88.65	88.73	88.21	0.95	ppb
Cadmium	106-1	83.49	84.85	85.02	84.45	1.00	ppb
Cadmium	111-1	101.52	101.94	104.87	102.77	1.78	ppb
Calcium	43-1	1931.36	1955.55	1953.17	1946.69	0.68	ppb
Calcium	44-1	1947.82	1975.56	1969.85	1964.41	0.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	103.50	103.68	103.15	103.45	0.26	ppb
Cobalt	59-2	106.57	106.40	107.32	106.76	0.46	ppb
Copper	63-2	109.32	108.85	108.17	108.78	0.53	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				103		%
Indium	115-1				104		%
Indium	115-2				103		%
Iron	54-2	2140.48	2111.64	2128.14	2126.75	0.68	ppb
Iron	56-2	2092.65	2119.08	2088.05	2099.92	0.80	ppb
Iron	57-2	2033.34	2064.67	2058.78	2052.27	0.81	ppb
Krypton	83-1						cps
Lead	206-1	203.55	200.53	198.86	200.98	1.18	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	196.50	196.34	191.43	194.76	1.48	ppb
Lead	208-1	197.66	197.91	195.52	197.03	0.67	ppb
Lithium	6-1				102		%
Magnesium	24-2	1221.52	1220.95	1207.16	1216.55	0.67	ppb
Manganese	55-2	103.45	101.98	102.69	102.71	0.72	ppb
Molybdenum	94-1	0.05	0.07	0.08	0.07	24.48	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	13.53	ppb
Molybdenum	96-1	0.04	0.05	0.05	0.05	10.21	ppb
Molybdenum	97-1	0.02	0.03	0.03	0.03	6.12	ppb
Molybdenum	98-1	0.03	0.02	0.03	0.03	12.37	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	107.99	106.97	108.67	107.88	0.80	ppb
Phosphorus	31-2	-19.47	-11.40	-14.93	-15.27		ppb
Potassium	39-2	1942.91	1948.19	1952.35	1947.82	0.24	ppb
Rhodium	103-1				105		%
Rhodium	103-2				103		%
Scandium	45-1				105		%
Scandium	45-2				103		%
Selenium	82-1	214.76	213.77	213.78	214.10	0.26	ppb
Selenium	77-2	198.27	218.78	218.18	211.74	5.51	ppb
Selenium	78-2	203.42	203.30	208.77	205.17	1.52	ppb
Silicon	28-1	-0.33	-0.16	-0.33	-0.27		ppb
Silver	107-1	44.12	45.09	46.08	45.10	2.17	ppb
Silver	109-1	44.48	45.17	46.27	45.31	1.98	ppb
Sodium	23-2	2026.78	2080.45	2064.39	2057.21	1.34	ppb
Strontium	86-1	0.23	0.23	0.24	0.23	1.48	ppb
Strontium	88-1	0.24	0.24	0.24	0.24	0.59	ppb
Sulfur	34-1	-168.29	-163.74	-268.29	-200.11		ppb
Terbium	159-1				104		%
Terbium	159-2				104		%
Thallium	203-1	193.78	196.37	195.56	195.24	0.68	ppb
Thallium	205-1	195.30	195.45	195.67	195.47	0.09	ppb
Tin	118-1	0.01	0.00	0.01	0.01	113.75	ppb
Titanium	47-1	-0.04	-0.06	-0.04	-0.05		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	101.09	100.95	101.86	101.30	0.48	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				103		%
Yttrium	89-2				102		%
Zinc	66-2	206.84	206.93	208.29	207.35	0.39	ppb
Zirconium	90-1	0.02	0.02	0.02	0.02	2.35	ppb
Zirconium	91-1	0.09	0.09	0.11	0.10	11.40	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.28	20.38	20.63	20.43	0.87	ppb
Antimony	121-1	1.84	1.84	1.81	1.83	0.98	ppb
Arsenic	75-2	0.93	0.91	1.03	0.95	6.84	ppb
Barium	135-1	9.25	9.32	9.15	9.24	0.95	ppb
Barium	137-1	9.20	9.35	9.17	9.24	1.07	ppb
Beryllium	9-1	1.01	1.07	1.05	1.04	3.32	ppb
Bismuth	209-1				105		%
Bismuth	209-2				104		%
Bromine	81-1						cps
Cadmium	108-1	0.70	1.04	1.01	0.92	20.89	ppb
Cadmium	106-1	0.83	1.31	0.39	0.84	54.19	ppb
Cadmium	111-1	1.03	1.01	0.96	1.00	3.64	ppb
Calcium	43-1	468.58	479.72	470.80	473.03	1.25	ppb
Calcium	44-1	472.78	482.49	467.28	474.18	1.62	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.01	1.90	2.00	1.97	2.93	ppb
Cobalt	59-2	1.00	1.00	1.03	1.01	1.52	ppb
Copper	63-2	2.08	2.09	2.03	2.07	1.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				105		%
Iron	54-2	51.17	50.90	49.55	50.54	1.72	ppb
Iron	56-2	48.86	49.23	48.66	48.92	0.59	ppb
Iron	57-2	48.44	49.37	47.37	48.39	2.07	ppb
Krypton	83-1						cps
Lead	206-1	0.88	0.88	0.85	0.87	1.78	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.90	0.92	0.92	0.91	1.39	ppb
Lead	208-1	0.91	0.90	0.90	0.90	0.72	ppb
Lithium	6-1				103		%
Magnesium	24-2	494.16	513.21	503.42	503.59	1.89	ppb
Manganese	55-2	0.93	1.14	1.03	1.03	9.96	ppb
Molybdenum	94-1	5.25	5.46	5.34	5.35	1.93	ppb
Molybdenum	95-1	4.37	4.44	4.53	4.44	1.81	ppb
Molybdenum	96-1	4.49	4.51	4.52	4.50	0.33	ppb
Molybdenum	97-1	4.48	4.49	4.48	4.48	0.16	ppb
Molybdenum	98-1	4.41	4.47	4.46	4.45	0.74	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.95	0.98	1.05	0.99	5.31	ppb
Phosphorus	31-2	10.22	1.63	25.76	12.54	97.57	ppb
Potassium	39-2	468.42	467.23	471.47	469.04	0.47	ppb
Rhodium	103-1				106		%
Rhodium	103-2				105		%
Scandium	45-1				106		%
Scandium	45-2				105		%
Selenium	82-1	4.33	4.68	5.08	4.70	8.00	ppb
Selenium	77-2	3.72	4.73	5.86	4.77	22.46	ppb
Selenium	78-2	4.50	7.18	4.36	5.34	29.74	ppb
Silicon	28-1	0.39	0.52	0.59	0.50	20.79	ppb
Silver	107-1	0.94	0.96	0.96	0.96	1.05	ppb
Silver	109-1	0.95	0.98	0.96	0.96	1.57	ppb
Sodium	23-2	499.48	504.54	510.18	504.73	1.06	ppb
Strontium	86-1	0.88	0.94	0.93	0.92	3.41	ppb
Strontium	88-1	0.90	0.91	0.92	0.91	1.13	ppb
Sulfur	34-1	-54.06	-3.00	-70.84	-42.64		ppb
Terbium	159-1				105		%
Terbium	159-2				105		%
Thallium	203-1	0.87	0.85	0.89	0.87	1.96	ppb
Thallium	205-1	0.89	0.89	0.88	0.88	0.30	ppb
Tin	118-1	4.64	4.74	4.55	4.64	2.09	ppb
Titanium	47-1	4.71	4.78	4.70	4.73	0.89	ppb
Uranium	238-1	0.86	0.86	0.85	0.85	0.78	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	4.76	4.83	4.76	4.78	0.85	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				104		%
Zinc	66-2	4.99	4.82	4.84	4.88	1.87	ppb
Zirconium	90-1	0.87	0.91	0.90	0.89	1.95	ppb
Zirconium	91-1	0.89	0.90	0.90	0.90	0.60	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	-0.55	-0.17	-0.56	-0.43		ppb
Antimony	121-1	0.00	0.01	0.00	0.00	33.02	ppb
Arsenic	75-2	0.00	0.00	0.01	0.00	98.93	ppb
Barium	135-1	0.00	-0.01	-0.01	-0.01		ppb
Barium	137-1	0.00	-0.01	-0.01	-0.01		ppb
Beryllium	9-1	-0.01	-0.01	-0.01	-0.01		ppb
Bismuth	209-1				107		%
Bismuth	209-2				105		%
Bromine	81-1						cps
Cadmium	108-1	-0.04	0.02	-0.05	-0.02		ppb
Cadmium	106-1	-0.03	-0.50	-0.06	-0.20		ppb
Cadmium	111-1	0.00	-0.04	0.00	-0.02		ppb
Calcium	43-1	-3.02	-3.62	-3.33	-3.32		ppb
Calcium	44-1	-0.23	-0.20	-0.40	-0.28		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	-0.02		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	-0.03	-0.03	-0.03	-0.03		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				105		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				106		%
Iron	54-2	0.02	-0.44	1.81	0.46	255.84	ppb
Iron	56-2	-0.64	-0.70	-0.62	-0.66		ppb
Iron	57-2	-0.53	0.19	-0.33	-0.22		ppb
Krypton	83-1						cps
Lead	206-1	0.02	0.02	0.01	0.02	15.20	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.01	0.02	0.01	0.02	8.34	ppb
Lead	208-1	0.02	0.02	0.02	0.02	7.90	ppb
Lithium	6-1				104		%
Magnesium	24-2	-1.34	-1.51	-1.84	-1.56		ppb
Manganese	55-2	-0.10	-0.07	-0.04	-0.07		ppb
Molybdenum	94-1	-0.01	0.01	-0.01	0.00		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00		ppb
Molybdenum	96-1	-0.01	0.00	-0.01	0.00		ppb
Molybdenum	97-1	0.00	0.00	-0.01	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	-0.03	-0.02	-0.02	-0.02		ppb
Phosphorus	31-2	-15.53	-19.30	-16.65	-17.16		ppb
Potassium	39-2	-0.21	1.41	-0.11	0.36	250.38	ppb
Rhodium	103-1				107		%
Rhodium	103-2				106		%
Scandium	45-1				105		%
Scandium	45-2				105		%
Selenium	82-1	0.06	-0.02	-0.03	0.00	2780.13	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.29	-0.14	-0.60	-0.34		ppb
Silicon	28-1	0.10	-0.27	-0.47	-0.21		ppb
Silver	107-1	0.00	0.00	0.00	0.00	15.70	ppb
Silver	109-1	0.00	0.00	0.00	0.00	23.70	ppb
Sodium	23-2	3.96	2.88	4.29	3.71	19.85	ppb
Strontium	86-1	-0.01	-0.01	0.00	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	0.02	84.52	-17.96	22.19	246.55	ppb
Terbium	159-1				106		%
Terbium	159-2				105		%
Thallium	203-1	0.01	0.00	0.00	0.00	24.72	ppb
Thallium	205-1	0.00	0.00	0.00	0.00	33.82	ppb
Tin	118-1	-0.01	-0.01	0.00	-0.01		ppb
Titanium	47-1	0.04	0.08	0.05	0.06	36.13	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	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				105		%
Zinc	66-2	-0.11	-0.10	-0.11	-0.11		ppb
Zirconium	90-1	0.00	0.00	0.00	0.00	150.71	ppb
Zirconium	91-1	0.00	0.00	0.00	0.00	780.96	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	92828.42	94281.15	94546.70	93885.42	0.99	ppb
Antimony	121-1	1.08	1.07	1.07	1.07	0.40	ppb
Arsenic	75-2	0.31	0.22	0.33	0.29	19.83	ppb
Barium	135-1	1.40	1.49	1.40	1.43	3.67	ppb
Barium	137-1	1.44	1.45	1.41	1.43	1.64	ppb
Beryllium	9-1	0.29	0.30	0.29	0.29	1.38	ppb
Bismuth	209-1				96		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	14.67	14.41	13.28	14.12	5.25	ppb
Cadmium	106-1	-0.44	-0.82	-0.35	-0.54		ppb
Cadmium	111-1	0.47	0.45	0.54	0.49	9.44	ppb
Calcium	43-1	98386.96	100548.92	98927.00	99287.63	1.13	ppb
Calcium	44-1	98856.80	98601.13	100322.13	99260.02	0.94	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	20.04	19.86	20.32	20.07	1.15	ppb
Cobalt	59-2	1.18	1.15	1.15	1.16	1.25	ppb
Copper	63-2	7.57	7.71	7.89	7.72	2.03	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				102		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	54-2	102145.96	102530.54	104067.00	102914.50	0.99	ppb
Iron	56-2	102057.77	103283.71	104628.74	103323.41	1.24	ppb
Iron	57-2	101495.08	103548.74	103399.90	102814.57	1.11	ppb
Krypton	83-1						cps
Lead	206-1	4.51	4.53	4.39	4.48	1.71	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	4.21	4.14	4.00	4.12	2.66	ppb
Lead	208-1	4.31	4.27	4.18	4.25	1.59	ppb
Lithium	6-1				97		%
Magnesium	24-2	98916.28	98421.10	100998.95	99445.44	1.38	ppb
Manganese	55-2	7.69	7.50	7.52	7.57	1.32	ppb
Molybdenum	94-1	1558.80	1630.24	1577.63	1588.89	2.33	ppb
Molybdenum	95-1	1923.10	1983.38	1921.99	1942.82	1.81	ppb
Molybdenum	96-1	1906.37	1947.14	1925.24	1926.25	1.06	ppb
Molybdenum	97-1	1929.99	1990.86	1981.54	1967.47	1.67	ppb
Molybdenum	98-1	1891.50	2006.75	1959.74	1952.66	2.97	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	5.31	5.54	5.56	5.47	2.59	ppb
Phosphorus	31-2	104358.28	105481.41	105013.46	104951.05	0.54	ppb
Potassium	39-2	100116.06	99981.89	99717.11	99938.35	0.20	ppb
Rhodium	103-1				96		%
Rhodium	103-2				95		%
Scandium	45-1				103		%
Scandium	45-2				101		%
Selenium	82-1	-0.02	-0.08	0.08	-0.01		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.53	0.04	0.22	0.26	93.20	ppb
Silicon	28-1	2.57	2.63	2.56	2.59	1.51	ppb
Silver	107-1	0.04	0.04	0.04	0.04	5.94	ppb
Silver	109-1	0.05	0.04	0.04	0.04	7.89	ppb
Sodium	23-2	106129.67	105037.56	105251.75	105472.99	0.55	ppb
Strontium	86-1	31.90	33.42	32.75	32.69	2.32	ppb
Strontium	88-1	34.02	35.86	34.21	34.70	2.91	ppb
Sulfur	34-1	97410.59	95796.61	96194.92	96467.37	0.87	ppb
Terbium	159-1				104		%
Terbium	159-2				100		%
Thallium	203-1	0.05	0.08	0.09	0.07	28.75	ppb
Thallium	205-1	0.05	0.07	0.09	0.07	29.37	ppb
Tin	118-1	0.31	0.28	0.23	0.27	15.00	ppb
Titanium	47-1	1998.63	2021.15	2026.19	2015.32	0.73	ppb
Uranium	238-1	0.01	0.01	0.01	0.01	2.10	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.15	0.16	0.15	0.15	5.37	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	12.25	11.93	12.02	12.06	1.39	ppb
Zirconium	90-1	0.02	0.02	0.03	0.02	28.26	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	15.79	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	87982.32	88589.08	90618.25	89063.22	1.55	ppb
Antimony	121-1	19.76	19.98	20.07	19.94	0.80	ppb
Arsenic	75-2	18.93	19.58	19.75	19.42	2.21	ppb
Barium	135-1	20.43	20.26	20.36	20.35	0.42	ppb
Barium	137-1	20.32	20.43	20.76	20.50	1.12	ppb
Beryllium	9-1	21.32	22.07	21.08	21.49	2.40	ppb
Bismuth	209-1				96		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	28.53	28.99	29.42	28.98	1.53	ppb
Cadmium	106-1	13.78	15.09	14.71	14.52	4.63	ppb
Cadmium	111-1	18.96	19.30	19.15	19.14	0.90	ppb
Calcium	43-1	94781.12	96264.27	97065.10	96036.83	1.21	ppb
Calcium	44-1	94406.72	96031.89	96855.32	95764.64	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	38.36	38.07	38.65	38.36	0.76	ppb
Cobalt	59-2	20.59	20.77	20.76	20.71	0.50	ppb
Copper	63-2	26.78	26.55	26.90	26.74	0.67	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				105		%
Holmium	165-2				101		%
Indium	115-1				104		%
Indium	115-2				98		%
Iron	54-2	97767.86	97191.38	98070.49	97676.58	0.46	ppb
Iron	56-2	97475.47	98381.15	98064.87	97973.83	0.47	ppb
Iron	57-2	97133.66	99800.08	99485.13	98806.29	1.47	ppb
Krypton	83-1						cps
Lead	206-1	22.89	23.18	22.91	22.99	0.70	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	22.63	22.29	22.85	22.59	1.26	ppb
Lead	208-1	22.52	22.61	22.77	22.63	0.55	ppb
Lithium	6-1				94		%
Magnesium	24-2	93604.60	93934.83	96490.75	94676.73	1.67	ppb
Manganese	55-2	26.13	26.22	25.94	26.10	0.56	ppb
Molybdenum	94-1	1530.07	1515.29	1512.07	1519.14	0.63	ppb
Molybdenum	95-1	1867.42	1867.21	1846.73	1860.45	0.64	ppb
Molybdenum	96-1	1838.92	1851.86	1813.17	1834.65	1.07	ppb
Molybdenum	97-1	1862.01	1892.86	1859.67	1871.51	0.99	ppb
Molybdenum	98-1	1871.74	1875.73	1863.45	1870.31	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	23.71	24.33	24.04	24.03	1.28	ppb
Phosphorus	31-2	97578.67	99033.20	99197.00	98602.96	0.90	ppb
Potassium	39-2	93291.59	94307.46	94890.20	94163.08	0.86	ppb
Rhodium	103-1				99		%
Rhodium	103-2				97		%
Scandium	45-1				107		%
Scandium	45-2				103		%
Selenium	82-1	19.59	19.74	19.76	19.70	0.48	ppb
Selenium	77-2	22.42	15.87	20.95	19.75	17.42	ppb
Selenium	78-2	19.54	19.41	20.76	19.90	3.74	ppb
Silicon	28-1	2.59	2.69	2.62	2.64	1.96	ppb
Silver	107-1	17.87	18.28	18.20	18.12	1.19	ppb
Silver	109-1	18.01	18.19	18.51	18.24	1.38	ppb
Sodium	23-2	99442.48	100788.84	102637.91	100956.41	1.59	ppb
Strontium	86-1	31.45	31.52	31.37	31.44	0.24	ppb
Strontium	88-1	33.44	33.11	33.00	33.18	0.70	ppb
Sulfur	34-1	91473.06	92139.33	93415.39	92342.60	1.07	ppb
Terbium	159-1				105		%
Terbium	159-2				100		%
Thallium	203-1	19.19	18.83	19.54	19.19	1.85	ppb
Thallium	205-1	19.39	19.19	19.71	19.43	1.34	ppb
Tin	118-1	0.19	0.18	0.18	0.18	2.79	ppb
Titanium	47-1	1949.91	1932.65	1925.44	1936.00	0.65	ppb
Uranium	238-1	0.02	0.02	0.03	0.02	9.17	ppb

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.43	19.43	19.42	19.43	0.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				102		%
Zinc	66-2	29.99	29.51	29.83	29.78	0.83	ppb
Zirconium	90-1	0.01	0.01	0.02	0.01	10.50	ppb
Zirconium	91-1	0.02	0.03	0.03	0.03	11.18	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	49685.59	50888.34	49141.02	49904.98	1.79	ppb
Antimony	121-1	496.21	503.57	503.80	501.19	0.86	ppb
Arsenic	75-2	505.07	488.21	514.46	502.58	2.65	ppb
Barium	135-1	2476.51	2508.99	2515.96	2500.49	0.84	ppb
Barium	137-1	2473.31	2515.85	2504.83	2498.00	0.88	ppb
Beryllium	9-1	500.71	515.53	511.79	509.34	1.51	ppb
Bismuth	209-1				90		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	477.94	501.09	491.72	490.25	2.38	ppb
Cadmium	106-1	481.33	497.88	491.69	490.30	1.71	ppb
Cadmium	111-1	493.95	508.51	501.56	501.34	1.45	ppb
Calcium	43-1	251001.49	250723.31	248576.82	250100.54	0.53	ppb
Calcium	44-1	252709.40	251702.71	252479.97	252297.36	0.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	520.83	512.60	514.76	516.06	0.83	ppb
Cobalt	59-2	501.59	498.08	495.47	498.38	0.62	ppb
Copper	63-2	4933.62	4833.87	4779.65	4849.05	1.61	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				98		%
Holmium	165-2				97		%
Indium	115-1				94		%
Indium	115-2				85		%
Iron	54-2	127389.93	125393.12	124836.07	125873.04	1.07	ppb
Iron	56-2	128353.93	124942.48	126306.85	126534.42	1.36	ppb
Iron	57-2	127030.92	123980.06	126347.09	125786.02	1.27	ppb
Krypton	83-1						cps
Lead	206-1	2471.22	2551.66	2480.29	2501.06	1.76	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2482.45	2536.66	2475.39	2498.17	1.34	ppb
Lead	208-1	2489.92	2536.58	2512.95	2513.15	0.93	ppb
Lithium	6-1				89		%
Magnesium	24-2	260476.64	253343.54	252204.70	255341.63	1.76	ppb
Manganese	55-2	5109.13	5044.78	5108.08	5087.33	0.72	ppb
Molybdenum	94-1	4853.29	4897.95	5081.61	4944.28	2.45	ppb
Molybdenum	95-1	4892.57	4905.65	5029.19	4942.47	1.53	ppb
Molybdenum	96-1	4911.66	4952.29	5060.27	4974.74	1.54	ppb
Molybdenum	97-1	4970.27	4955.65	5071.88	4999.27	1.27	ppb
Molybdenum	98-1	4956.48	4931.21	5011.93	4966.54	0.83	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	469.93	462.50	462.91	465.11	0.90	ppb
Phosphorus	31-2	10324.00	10003.64	9837.96	10055.20	2.46	ppb
Potassium	39-2	125202.56	125613.59	123883.10	124899.75	0.72	ppb
Rhodium	103-1				90		%
Rhodium	103-2				90		%
Scandium	45-1				100		%
Scandium	45-2				99		%
Selenium	82-1	489.74	488.65	486.40	488.26	0.35	ppb
Selenium	77-2	499.07	475.20	489.15	487.81	2.46	ppb
Selenium	78-2	502.56	470.02	492.74	488.44	3.42	ppb
Silicon	28-1	490.40	484.09	485.04	486.51	0.70	ppb
Silver	107-1	482.15	495.26	484.32	487.24	1.44	ppb
Silver	109-1	489.09	490.11	489.77	489.66	0.11	ppb
Sodium	23-2	261417.58	254861.65	252888.17	256389.13	1.74	ppb
Strontium	86-1	509.16	505.30	501.52	505.33	0.76	ppb
Strontium	88-1	496.30	503.81	511.60	503.90	1.52	ppb
Sulfur	34-1	9996.25	9559.55	9478.30	9678.04	2.88	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	494.03	508.10	494.79	498.97	1.59	ppb
Thallium	205-1	505.99	510.09	507.00	507.69	0.42	ppb
Tin	118-1	496.01	502.18	505.27	501.15	0.94	ppb
Titanium	47-1	4895.65	4984.80	4904.95	4928.47	0.99	ppb
Uranium	238-1	498.56	510.23	511.18	506.66	1.39	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	522.20	506.91	522.54	517.22	1.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				99		%
Yttrium	89-2				95		%
Zinc	66-2	4964.59	4897.41	4933.87	4931.96	0.68	ppb
Zirconium	90-1	494.02	497.41	505.54	498.99	1.19	ppb
Zirconium	91-1	497.08	505.33	503.10	501.83	0.85	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	5.31	6.24	6.71	6.09	11.65	ppb
Antimony	121-1	0.03	0.02	0.02	0.02	11.25	ppb
Arsenic	75-2	0.00	0.00	0.00	0.00		ppb
Barium	135-1	0.00	0.00	0.00	0.00		ppb
Barium	137-1	0.00	0.01	0.00	0.00	89.49	ppb
Beryllium	9-1	0.00	0.00	0.00	0.00		ppb
Bismuth	209-1				107		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.02	-0.03	0.00	762.73	ppb
Cadmium	106-1	0.82	0.03	-0.97	-0.04		ppb
Cadmium	111-1	0.07	0.00	-0.07	0.00		ppb
Calcium	43-1	-1.31	-2.24	-3.52	-2.36		ppb
Calcium	44-1	0.38	0.97	0.58	0.65	46.12	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	0.01	0.00	3516.63	ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.02	0.01	0.02	0.01	34.10	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				106		%
Holmium	165-2				103		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	54-2	-0.17	0.03	0.22	0.02	783.60	ppb
Iron	56-2	-0.05	-0.10	-0.09	-0.08		ppb
Iron	57-2	0.02	0.71	0.56	0.43	84.36	ppb
Krypton	83-1						cps
Lead	206-1	0.04	0.04	0.04	0.04	2.21	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.05	0.04	0.04	0.05	10.65	ppb
Lead	208-1	0.05	0.05	0.04	0.05	4.76	ppb
Lithium	6-1				101		%
Magnesium	24-2	-0.34	-0.61	-0.90	-0.61		ppb
Manganese	55-2	0.00	-0.02	-0.02	-0.02		ppb
Molybdenum	94-1	0.05	0.04	0.04	0.04	16.51	ppb
Molybdenum	95-1	0.02	0.02	0.02	0.02	5.40	ppb
Molybdenum	96-1	0.03	0.03	0.02	0.03	22.34	ppb
Molybdenum	97-1	0.03	0.02	0.02	0.02	20.65	ppb
Molybdenum	98-1	0.03	0.02	0.02	0.02	21.08	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.03	-0.03	-0.02		ppb
Phosphorus	31-2	-20.88	-22.73	-15.33	-19.64		ppb
Potassium	39-2	12.38	12.23	15.29	13.30	12.99	ppb
Rhodium	103-1				108		%
Rhodium	103-2				105		%
Scandium	45-1				110		%
Scandium	45-2				105		%
Selenium	82-1	-0.10	0.03	-0.02	-0.03		ppb
Selenium	77-2	0.00	0.00	0.54	0.18	173.21	ppb
Selenium	78-2	-0.28	-0.28	0.50	-0.02		ppb
Silicon	28-1	-0.60	-0.57	-0.63	-0.60		ppb
Silver	107-1	0.01	0.01	0.01	0.01	13.95	ppb
Silver	109-1	0.01	0.01	0.01	0.01	15.83	ppb
Sodium	23-2	22.19	21.97	21.95	22.04	0.61	ppb
Strontium	86-1	0.00	0.00	-0.01	0.00		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-340.62	-315.81	-344.70	-333.71		ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	0.02	0.02	0.02	0.02	0.65	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	4.93	ppb
Tin	118-1	0.02	0.00	0.01	0.01	88.21	ppb
Titanium	47-1	-0.01	0.00	-0.04	-0.01		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.00	0.00	0.00	0.00	89.17	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				102		%
Zinc	66-2	-0.01	0.01	-0.05	-0.02		ppb
Zirconium	90-1	0.02	0.01	0.02	0.01	7.05	ppb
Zirconium	91-1	0.02	0.02	0.01	0.02	13.86	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	20.50	21.84	21.71	21.35	3.45	ppb
Antimony	121-1	2.08	2.15	2.13	2.12	1.63	ppb
Arsenic	75-2	1.11	1.07	1.17	1.12	4.65	ppb
Barium	135-1	10.51	10.62	10.80	10.64	1.35	ppb
Barium	137-1	10.53	10.69	11.03	10.75	2.37	ppb
Beryllium	9-1	1.11	1.22	1.15	1.16	4.69	ppb
Bismuth	209-1				106		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	1.06	1.09	1.23	1.13	7.84	ppb
Cadmium	106-1	1.66	0.74	1.64	1.35	38.83	ppb
Cadmium	111-1	1.21	1.12	1.23	1.18	4.99	ppb
Calcium	43-1	529.20	547.11	550.96	542.42	2.14	ppb
Calcium	44-1	527.69	558.31	552.14	546.05	2.97	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.14	2.18	2.20	2.17	1.35	ppb
Cobalt	59-2	1.18	1.18	1.14	1.17	2.20	ppb
Copper	63-2	2.35	2.39	2.36	2.36	0.78	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				104		%
Holmium	165-2				104		%
Indium	115-1				107		%
Indium	115-2				104		%
Iron	54-2	56.84	58.63	58.97	58.15	1.96	ppb
Iron	56-2	55.49	56.22	55.27	55.66	0.89	ppb
Iron	57-2	54.95	55.37	54.11	54.81	1.17	ppb
Krypton	83-1						cps
Lead	206-1	0.95	1.00	1.02	0.99	3.65	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.97	1.04	1.04	1.02	3.76	ppb
Lead	208-1	0.99	1.02	1.03	1.01	2.10	ppb
Lithium	6-1				100		%
Magnesium	24-2	579.33	574.91	579.52	577.92	0.45	ppb
Manganese	55-2	1.01	1.10	1.04	1.05	4.34	ppb
Molybdenum	94-1	5.85	6.23	5.98	6.02	3.20	ppb
Molybdenum	95-1	4.96	5.18	5.05	5.06	2.28	ppb
Molybdenum	96-1	5.10	5.41	5.14	5.21	3.22	ppb
Molybdenum	97-1	5.07	5.18	5.14	5.13	1.10	ppb
Molybdenum	98-1	5.00	5.27	5.08	5.12	2.71	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.17	1.07	1.17	1.13	5.09	ppb
Phosphorus	31-2	14.46	20.93	10.03	15.14	36.20	ppb
Potassium	39-2	532.62	545.43	533.44	537.16	1.33	ppb
Rhodium	103-1				107		%
Rhodium	103-2				105		%
Scandium	45-1				108		%
Scandium	45-2				105		%
Selenium	82-1	5.54	5.69	5.90	5.71	3.14	ppb
Selenium	77-2	9.64	6.34	5.35	7.11	31.56	ppb
Selenium	78-2	5.47	3.24	5.93	4.88	29.53	ppb
Silicon	28-1	0.30	0.42	0.43	0.38	18.96	ppb
Silver	107-1	1.07	1.10	1.12	1.10	2.18	ppb
Silver	109-1	1.07	1.12	1.13	1.11	2.89	ppb
Sodium	23-2	580.26	586.91	584.59	583.92	0.58	ppb
Strontium	86-1	1.03	1.09	1.03	1.05	2.97	ppb
Strontium	88-1	1.01	1.09	1.05	1.05	3.76	ppb
Sulfur	34-1	-219.86	65.54	15.50	-46.27		ppb
Terbium	159-1				105		%
Terbium	159-2				103		%
Thallium	203-1	0.97	1.01	1.02	1.00	2.74	ppb
Thallium	205-1	0.98	1.00	1.01	0.99	1.35	ppb
Tin	118-1	5.27	5.44	5.36	5.35	1.60	ppb
Titanium	47-1	5.03	5.39	5.39	5.27	3.97	ppb
Uranium	238-1	0.96	0.98	0.99	0.97	1.54	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	5.57	5.49	5.49	5.51	0.81	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				106		%
Yttrium	89-2				104		%
Zinc	66-2	5.43	6.15	5.70	5.76	6.35	ppb
Zirconium	90-1	1.01	1.06	1.05	1.04	2.67	ppb
Zirconium	91-1	1.00	1.10	1.03	1.04	4.95	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	19.83	18.92	20.00	19.58	2.97	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	11.35	ppb
Arsenic	75-2	0.03	0.01	0.01	0.01	77.30	ppb
Barium	135-1	0.46	0.45	0.48	0.46	3.28	ppb
Barium	137-1	0.46	0.47	0.44	0.46	3.69	ppb
Beryllium	9-1	-0.01	-0.01	-0.01	-0.01		ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.02	0.03	0.01	0.02	61.60	ppb
Cadmium	106-1	-0.96	0.23	-0.31	-0.34		ppb
Cadmium	111-1	-0.07	0.02	-0.03	-0.03		ppb
Calcium	43-1	2.55	4.22	4.32	3.70	26.83	ppb
Calcium	44-1	7.29	7.20	7.85	7.44	4.75	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.11	0.10	0.10	0.10	6.86	ppb
Cobalt	59-2	0.00	-0.01	0.00	0.00		ppb
Copper	63-2	0.10	0.09	0.11	0.10	8.17	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				107		%
Holmium	165-2				104		%
Indium	115-1				112		%
Indium	115-2				105		%
Iron	54-2	18.16	17.34	18.13	17.88	2.59	ppb
Iron	56-2	17.57	17.89	17.60	17.69	1.00	ppb
Iron	57-2	19.08	17.67	17.33	18.03	5.16	ppb
Krypton	83-1						cps
Lead	206-1	0.16	0.15	0.15	0.15	3.93	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.15	0.15	0.16	0.15	3.78	ppb
Lead	208-1	0.16	0.15	0.16	0.16	1.82	ppb
Lithium	6-1				104		%
Magnesium	24-2	3.11	3.11	3.68	3.30	9.94	ppb
Manganese	55-2	0.33	0.28	0.39	0.33	15.61	ppb
Molybdenum	94-1	-0.01	0.00	0.01	0.00		ppb
Molybdenum	95-1	0.00	0.00	0.00	0.00	593.74	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	0.00	0.00	0.00	93.57	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.77	0.68	0.73	0.73	6.51	ppb
Phosphorus	31-2	-23.11	-22.07	-18.42	-21.20		ppb
Potassium	39-2	14.20	17.44	18.44	16.69	13.29	ppb
Rhodium	103-1				111		%
Rhodium	103-2				107		%
Scandium	45-1				111		%
Scandium	45-2				106		%
Selenium	82-1	0.07	-0.17	0.03	-0.03		ppb
Selenium	77-2	0.00	0.53	0.53	0.35	86.60	ppb
Selenium	78-2	-0.29	-0.14	0.63	0.07	736.23	ppb
Silicon	28-1	2.42	2.40	2.54	2.46	2.95	ppb
Silver	107-1	0.05	0.06	0.05	0.05	4.36	ppb
Silver	109-1	0.05	0.05	0.05	0.05	2.56	ppb
Sodium	23-2	22.48	23.54	23.70	23.24	2.86	ppb
Strontium	86-1	0.04	0.07	0.07	0.06	22.97	ppb
Strontium	88-1	0.06	0.05	0.06	0.06	6.14	ppb
Sulfur	34-1	-382.55	-367.13	-322.18	-357.29		ppb
Terbium	159-1				109		%
Terbium	159-2				104		%
Thallium	203-1	0.02	0.01	0.01	0.01	27.44	ppb
Thallium	205-1	0.02	0.01	0.01	0.01	28.41	ppb
Tin	118-1	0.00	0.01	0.00	0.00	149.56	ppb
Titanium	47-1	0.29	0.30	0.29	0.29	2.39	ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.09	0.08	0.09	0.09	4.69	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				105		%
Zinc	66-2	19.83	19.65	19.76	19.75	0.46	ppb
Zirconium	90-1	0.00	0.00	0.00	0.00		ppb
Zirconium	91-1	0.01	0.00	0.00	0.00	48.48	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	64120.35	63488.84	64349.30	63986.16	0.70	ppb
Antimony	121-1	0.29	0.29	0.28	0.29	1.80	ppb
Arsenic	75-2	40.43	40.93	40.42	40.59	0.71	ppb
Barium	135-1	428.09	433.23	431.72	431.01	0.61	ppb
Barium	137-1	431.63	426.17	430.79	429.53	0.68	ppb
Beryllium	9-1	3.72	3.78	3.83	3.78	1.37	ppb
Bismuth	209-1				93		%
Bismuth	209-2				92		%
Bromine	81-1						cps
Cadmium	108-1	8.88	9.02	9.00	8.97	0.83	ppb
Cadmium	106-1	33.94	32.51	33.24	33.23	2.15	ppb
Cadmium	111-1	5.91	5.85	5.83	5.86	0.71	ppb
Calcium	43-1	169115.78	169418.69	169657.15	169397.21	0.16	ppb
Calcium	44-1	170605.69	171867.50	170303.54	170925.57	0.49	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.97	2.91	2.81	2.90	2.84	ppb
Cobalt	59-2	230.14	230.17	234.30	231.54	1.03	ppb
Copper	63-2	6465.53	6336.34	6309.87	6370.58	1.31	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				111		%
Holmium	165-2				111		%
Indium	115-1				101		%
Indium	115-2				99		%
Iron	54-2	588986.66	590566.91	593766.28	591106.62	0.41	ppb
Iron	56-2	586574.52	589716.02	585484.49	587258.35	0.37	ppb
Iron	57-2	587376.58	586117.30	595768.56	589754.15	0.89	ppb
Krypton	83-1						cps
Lead	206-1	549.63	554.88	568.55	557.68	1.75	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	543.69	544.58	552.52	546.93	0.89	ppb
Lead	208-1	554.44	558.12	559.77	557.44	0.49	ppb
Lithium	6-1				95		%
Magnesium	24-2	30913.88	31143.48	31179.18	31078.85	0.46	ppb
Manganese	55-2	6033.20	6136.31	6185.82	6118.44	1.27	ppb
Molybdenum	94-1	27.48	27.73	27.12	27.44	1.13	ppb
Molybdenum	95-1	1.94	1.95	1.91	1.93	1.08	ppb
Molybdenum	96-1	5.62	5.72	5.54	5.62	1.66	ppb
Molybdenum	97-1	1.96	1.96	1.95	1.96	0.41	ppb
Molybdenum	98-1	1.90	1.93	1.89	1.91	1.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.65	14.67	14.71	14.68	0.19	ppb
Phosphorus	31-2	59062.17	58917.70	58886.18	58955.35	0.16	ppb
Potassium	39-2	30550.26	30388.20	30063.55	30334.00	0.82	ppb
Rhodium	103-1				96		%
Rhodium	103-2				96		%
Scandium	45-1				119		%
Scandium	45-2				113		%
Selenium	82-1	6.61	6.26	6.45	6.44	2.70	ppb
Selenium	77-2	328.65	360.49	338.93	342.69	4.74	ppb
Selenium	78-2	64.03	60.03	64.39	62.82	3.85	ppb
Silicon	28-1	2475.62	2436.46	2444.02	2452.03	0.85	ppb
Silver	107-1	1.45	1.46	1.45	1.46	0.45	ppb
Silver	109-1	1.40	1.43	1.44	1.43	1.48	ppb
Sodium	23-2	2248.48	2282.66	2288.86	2273.34	0.96	ppb
Strontium	86-1	44.66	44.67	43.84	44.39	1.07	ppb
Strontium	88-1	46.15	46.68	46.00	46.28	0.77	ppb
Sulfur	34-1	3248.96	3281.10	3193.28	3241.11	1.37	ppb
Terbium	159-1				111		%
Terbium	159-2				110		%
Thallium	203-1	1.67	1.69	1.66	1.67	1.02	ppb
Thallium	205-1	1.69	1.71	1.71	1.70	0.83	ppb
Tin	118-1	5.20	5.21	5.17	5.19	0.34	ppb
Titanium	47-1	4307.48	4325.61	4254.09	4295.73	0.87	ppb
Uranium	238-1	6.35	6.61	6.58	6.51	2.21	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	57.17	57.08	57.01	57.09	0.14	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				271		%
Yttrium	89-2				264		%
Zinc	66-2	1650.25	1630.88	1641.96	1641.03	0.59	ppb
Zirconium	90-1	14.98	15.05	14.89	14.97	0.54	ppb
Zirconium	91-1	14.20	14.33	14.10	14.21	0.80	ppb

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On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	65904.62	65285.99	66538.60	65909.74	0.95	ppb
Antimony	121-1	0.28	0.29	0.28	0.29	1.88	ppb
Arsenic	75-2	41.23	41.38	41.65	41.42	0.52	ppb
Barium	135-1	444.48	452.28	427.51	441.42	2.87	ppb
Barium	137-1	434.53	439.37	433.13	435.68	0.75	ppb
Beryllium	9-1	3.75	3.84	3.74	3.78	1.39	ppb
Bismuth	209-1				94		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	8.88	9.09	9.14	9.03	1.53	ppb
Cadmium	106-1	32.23	33.87	32.51	32.87	2.67	ppb
Cadmium	111-1	5.86	6.00	5.68	5.85	2.76	ppb
Calcium	43-1	171216.78	175421.91	173745.64	173461.44	1.22	ppb
Calcium	44-1	170230.82	176319.31	173277.73	173275.95	1.76	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	2.85	2.76	2.99	2.87	3.91	ppb
Cobalt	59-2	240.61	235.15	235.36	237.04	1.30	ppb
Copper	63-2	6355.49	6377.85	6400.39	6377.91	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				112		%
Holmium	165-2				110		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	602211.52	602787.07	604423.76	603140.79	0.19	ppb
Iron	56-2	609342.04	609814.96	605084.78	608080.59	0.43	ppb
Iron	57-2	604158.27	603868.46	603085.72	603704.15	0.09	ppb
Krypton	83-1						cps
Lead	206-1	563.99	573.33	580.25	572.52	1.43	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	557.76	559.51	573.43	563.57	1.52	ppb
Lead	208-1	566.40	568.68	576.55	570.54	0.93	ppb
Lithium	6-1				97		%
Magnesium	24-2	31964.47	32433.23	32262.91	32220.21	0.74	ppb
Manganese	55-2	6283.36	6233.78	6214.42	6243.85	0.57	ppb
Molybdenum	94-1	27.58	28.08	27.79	27.82	0.90	ppb
Molybdenum	95-1	1.92	1.96	1.94	1.94	1.16	ppb
Molybdenum	96-1	5.55	5.70	5.65	5.63	1.33	ppb
Molybdenum	97-1	1.94	1.94	1.96	1.95	0.50	ppb
Molybdenum	98-1	1.88	1.94	1.89	1.90	1.79	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	14.67	14.95	14.78	14.80	0.93	ppb
Phosphorus	31-2	59304.36	59228.48	59419.00	59317.28	0.16	ppb
Potassium	39-2	30054.67	31040.68	30277.83	30457.73	1.70	ppb
Rhodium	103-1				95		%
Rhodium	103-2				94		%
Scandium	45-1				118		%
Scandium	45-2				113		%
Selenium	82-1	6.19	6.69	6.17	6.35	4.67	ppb
Selenium	77-2	344.97	362.68	349.05	352.23	2.63	ppb
Selenium	78-2	62.61	61.68	62.38	62.22	0.78	ppb
Silicon	28-1	2514.18	2547.93	2577.72	2546.61	1.25	ppb
Silver	107-1	1.42	1.45	1.48	1.45	2.09	ppb
Silver	109-1	1.39	1.43	1.43	1.42	1.92	ppb
Sodium	23-2	2336.78	2358.04	2325.97	2340.26	0.70	ppb
Strontium	86-1	43.97	44.93	44.44	44.44	1.08	ppb
Strontium	88-1	46.15	46.52	46.50	46.39	0.45	ppb
Sulfur	34-1	3085.43	3243.09	3230.18	3186.23	2.75	ppb
Terbium	159-1				113		%
Terbium	159-2				109		%
Thallium	203-1	1.69	1.70	1.72	1.70	1.06	ppb
Thallium	205-1	1.69	1.71	1.76	1.72	2.03	ppb
Tin	118-1	5.07	5.44	5.09	5.20	3.95	ppb
Titanium	47-1	4398.04	4470.82	4403.10	4423.99	0.92	ppb
Uranium	238-1	6.59	6.71	6.69	6.67	0.95	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	58.34	58.75	58.74	58.61	0.40	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				275		%
Yttrium	89-2				265		%
Zinc	66-2	1658.96	1651.58	1667.60	1659.38	0.48	ppb
Zirconium	90-1	15.12	15.14	15.16	15.14	0.11	ppb
Zirconium	91-1	14.05	14.34	14.37	14.25	1.24	ppb

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On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14322.47	14268.49	14300.80	14297.26	0.19	ppb
Antimony	121-1	0.10	0.10	0.11	0.10	5.49	ppb
Arsenic	75-2	16.16	15.70	16.16	16.01	1.64	ppb
Barium	135-1	87.00	87.29	86.35	86.88	0.55	ppb
Barium	137-1	87.66	88.25	87.17	87.69	0.62	ppb
Beryllium	9-1	0.77	0.74	0.76	0.76	1.74	ppb
Bismuth	209-1				103		%
Bismuth	209-2				98		%
Bromine	81-1						cps
Cadmium	108-1	1.74	2.02	1.90	1.88	7.25	ppb
Cadmium	106-1	6.32	6.31	6.99	6.54	5.94	ppb
Cadmium	111-1	1.18	1.18	1.26	1.21	3.68	ppb
Calcium	43-1	37799.32	37921.27	37736.99	37819.19	0.25	ppb
Calcium	44-1	37842.41	37820.24	37993.73	37885.46	0.25	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.64	0.62	0.63	0.63	0.99	ppb
Cobalt	59-2	48.21	48.79	49.12	48.71	0.94	ppb
Copper	63-2	1435.63	1447.58	1442.09	1441.77	0.41	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				104		%
Indium	115-1				106		%
Indium	115-2				100		%
Iron	54-2	129124.78	131495.45	130603.39	130407.87	0.92	ppb
Iron	56-2	129065.53	130647.10	131995.47	130569.36	1.12	ppb
Iron	57-2	131393.05	131408.56	131511.37	131437.66	0.05	ppb
Krypton	83-1						cps
Lead	206-1	108.59	111.61	112.36	110.85	1.80	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	107.37	109.57	107.76	108.23	1.08	ppb
Lead	208-1	109.09	110.94	110.62	110.22	0.90	ppb
Lithium	6-1				100		%
Magnesium	24-2	7202.88	7268.35	7256.06	7242.43	0.48	ppb
Manganese	55-2	1346.04	1373.56	1343.83	1354.48	1.22	ppb
Molybdenum	94-1	10.41	10.63	10.45	10.50	1.11	ppb
Molybdenum	95-1	0.76	0.73	0.73	0.74	1.74	ppb
Molybdenum	96-1	2.13	2.17	2.13	2.14	1.13	ppb
Molybdenum	97-1	0.74	0.77	0.75	0.75	2.27	ppb
Molybdenum	98-1	0.71	0.74	0.71	0.72	2.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.30	3.35	3.34	3.33	0.76	ppb
Phosphorus	31-2	13092.01	13002.92	13180.80	13091.91	0.68	ppb
Potassium	39-2	6401.72	6414.18	6474.33	6430.08	0.60	ppb
Rhodium	103-1				102		%
Rhodium	103-2				99		%
Scandium	45-1				110		%
Scandium	45-2				104		%
Selenium	82-1	2.74	2.27	2.70	2.57	10.12	ppb
Selenium	77-2	143.08	140.00	150.33	144.47	3.67	ppb
Selenium	78-2	25.67	25.65	26.51	25.94	1.90	ppb
Silicon	28-1	549.29	542.28	554.15	548.57	1.09	ppb
Silver	107-1	0.32	0.33	0.33	0.33	2.80	ppb
Silver	109-1	0.33	0.32	0.33	0.32	0.95	ppb
Sodium	23-2	515.44	515.44	522.20	517.69	0.75	ppb
Strontium	86-1	17.30	17.67	17.30	17.42	1.24	ppb
Strontium	88-1	18.39	18.47	18.17	18.35	0.84	ppb
Sulfur	34-1	234.79	290.62	318.95	281.45	15.21	ppb
Terbium	159-1				107		%
Terbium	159-2				102		%
Thallium	203-1	0.33	0.32	0.33	0.33	1.06	ppb
Thallium	205-1	0.33	0.34	0.34	0.34	2.48	ppb
Tin	118-1	1.12	1.16	1.08	1.12	3.94	ppb
Titanium	47-1	940.41	947.09	930.51	939.34	0.89	ppb
Uranium	238-1	1.23	1.27	1.27	1.26	1.67	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.24	12.01	12.22	12.16	1.07	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				141		%
Yttrium	89-2				133		%
Zinc	66-2	366.21	369.31	372.24	369.25	0.82	ppb
Zirconium	90-1	5.43	5.51	5.41	5.45	0.93	ppb
Zirconium	91-1	5.41	5.49	5.41	5.44	0.81	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	33726.98	33235.45	33222.25	33394.89	0.86	ppb
Antimony	121-1	449.08	453.64	451.52	451.41	0.51	ppb
Arsenic	75-2	25.00	25.19	24.50	24.90	1.45	ppb
Barium	135-1	2208.78	2273.55	2301.51	2261.28	2.10	ppb
Barium	137-1	2266.05	2262.88	2270.91	2266.61	0.18	ppb
Beryllium	9-1	489.03	479.96	498.73	489.24	1.92	ppb
Bismuth	209-1				97		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	425.06	439.40	433.46	432.64	1.66	ppb
Cadmium	106-1	463.01	472.25	470.05	468.44	1.03	ppb
Cadmium	111-1	453.98	457.29	458.33	456.53	0.50	ppb
Calcium	43-1	139568.83	145164.59	145271.12	143334.85	2.28	ppb
Calcium	44-1	140045.38	143929.03	145879.57	143284.66	2.07	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	480.64	453.17	470.22	468.01	2.96	ppb
Cobalt	59-2	578.81	561.10	573.50	571.13	1.59	ppb
Copper	63-2	8370.38	8212.33	8225.59	8269.43	1.06	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				110		%
Holmium	165-2				105		%
Indium	115-1				101		%
Indium	115-2				94		%
Iron	54-2	256585.39	248528.61	250502.64	251872.21	1.67	ppb
Iron	56-2	252030.10	247327.95	248199.36	249185.80	1.00	ppb
Iron	57-2	255938.60	246067.89	249488.93	250498.47	2.00	ppb
Krypton	83-1						cps
Lead	206-1	2635.91	2739.87	2714.95	2696.91	2.01	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2742.93	2758.59	2783.99	2761.84	0.75	ppb
Lead	208-1	2712.28	2750.56	2780.94	2747.93	1.25	ppb
Lithium	6-1				95		%
Magnesium	24-2	62312.54	61347.09	61126.53	61595.39	1.02	ppb
Manganese	55-2	7596.81	7135.74	7331.10	7354.55	3.15	ppb
Molybdenum	94-1	1125.97	1173.88	1179.74	1159.86	2.54	ppb
Molybdenum	95-1	848.36	887.48	880.16	872.00	2.39	ppb
Molybdenum	96-1	886.40	931.08	926.31	914.60	2.68	ppb
Molybdenum	97-1	861.54	896.33	892.41	883.43	2.16	ppb
Molybdenum	98-1	861.72	888.71	890.95	880.46	1.85	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	450.97	442.71	443.90	445.86	1.00	ppb
Phosphorus	31-2	40054.95	39067.29	38386.08	39169.44	2.14	ppb
Potassium	39-2	37271.24	36254.55	36664.94	36730.25	1.39	ppb
Rhodium	103-1				99		%
Rhodium	103-2				94		%
Scandium	45-1				110		%
Scandium	45-2				105		%
Selenium	82-1	245.41	256.65	249.72	250.59	2.26	ppb
Selenium	77-2	533.80	512.95	520.36	522.37	2.02	ppb
Selenium	78-2	288.58	286.90	298.58	291.36	2.17	ppb
Silicon	28-1	1183.70	1222.69	1224.30	1210.23	1.90	ppb
Silver	107-1	77.90	79.93	78.97	78.94	1.29	ppb
Silver	109-1	77.53	80.26	78.17	78.65	1.81	ppb
Sodium	23-2	50966.10	49325.70	49939.86	50077.22	1.66	ppb
Strontium	86-1	325.58	335.06	331.18	330.61	1.44	ppb
Strontium	88-1	323.84	332.81	331.28	329.31	1.46	ppb
Sulfur	34-1	1778.89	1984.12	1980.21	1914.40	6.13	ppb
Terbium	159-1				110		%
Terbium	159-2				104		%
Thallium	203-1	452.52	476.23	470.93	466.56	2.67	ppb
Thallium	205-1	461.10	473.09	479.50	471.23	1.98	ppb
Tin	118-1	404.08	402.81	404.33	403.74	0.20	ppb
Titanium	47-1	1671.47	1727.31	1711.66	1703.48	1.69	ppb
Uranium	238-1	467.44	478.92	480.37	475.57	1.49	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	519.61	503.84	511.30	511.58	1.54	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				200		%
Yttrium	89-2				190		%
Zinc	66-2	5715.87	5570.68	5587.95	5624.83	1.41	ppb
Zirconium	90-1	245.31	253.32	253.07	250.56	1.82	ppb
Zirconium	91-1	241.37	254.37	250.00	248.58	2.66	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	41379.50	41294.20	40885.49	41186.40	0.64	ppb
Antimony	121-1	461.17	466.79	458.58	462.18	0.91	ppb
Arsenic	75-2	30.10	30.10	30.31	30.17	0.41	ppb
Barium	135-1	2366.53	2380.73	2360.53	2369.27	0.44	ppb
Barium	137-1	2393.87	2347.03	2379.02	2373.31	1.01	ppb
Beryllium	9-1	477.77	475.47	477.34	476.86	0.26	ppb
Bismuth	209-1				97		%
Bismuth	209-2				91		%
Bromine	81-1						cps
Cadmium	108-1	446.14	437.15	438.54	440.61	1.10	ppb
Cadmium	106-1	474.41	475.19	473.83	474.48	0.14	ppb
Cadmium	111-1	468.59	478.52	462.46	469.86	1.72	ppb
Calcium	43-1	147815.68	148827.46	148137.90	148260.35	0.35	ppb
Calcium	44-1	148843.87	149003.39	147621.36	148489.54	0.51	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	479.61	470.28	479.64	476.51	1.13	ppb
Cobalt	59-2	593.57	588.95	590.93	591.15	0.39	ppb
Copper	63-2	8540.65	8658.85	8769.07	8656.19	1.32	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				105		%
Indium	115-1				101		%
Indium	115-2				95		%
Iron	54-2	279439.78	269936.93	278551.90	275976.20	1.90	ppb
Iron	56-2	279571.88	272061.44	278877.36	276836.89	1.50	ppb
Iron	57-2	277190.67	280105.17	276838.54	278044.79	0.64	ppb
Krypton	83-1						cps
Lead	206-1	2663.73	2648.62	2661.54	2657.96	0.31	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2717.75	2663.38	2630.44	2670.52	1.65	ppb
Lead	208-1	2723.20	2670.63	2658.91	2684.25	1.28	ppb
Lithium	6-1				99		%
Magnesium	24-2	63651.87	63359.95	63817.98	63609.93	0.36	ppb
Manganese	55-2	7434.65	7256.61	7395.28	7362.18	1.27	ppb
Molybdenum	94-1	1168.70	1213.37	1208.74	1196.94	2.05	ppb
Molybdenum	95-1	869.71	907.92	904.80	894.15	2.37	ppb
Molybdenum	96-1	922.49	958.14	955.83	945.49	2.11	ppb
Molybdenum	97-1	892.57	906.35	922.45	907.12	1.65	ppb
Molybdenum	98-1	889.20	905.94	913.76	902.96	1.39	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	456.43	456.21	458.17	456.93	0.23	ppb
Phosphorus	31-2	37636.18	37836.20	38056.65	37843.01	0.56	ppb
Potassium	39-2	42483.62	42787.56	43642.75	42971.31	1.40	ppb
Rhodium	103-1				98		%
Rhodium	103-2				96		%
Scandium	45-1				110		%
Scandium	45-2				104		%
Selenium	82-1	250.77	256.67	259.89	255.78	1.81	ppb
Selenium	77-2	520.84	513.15	526.05	520.01	1.25	ppb
Selenium	78-2	293.40	298.25	303.74	298.47	1.73	ppb
Silicon	28-1	957.26	960.60	960.67	959.51	0.20	ppb
Silver	107-1	79.78	81.48	80.34	80.53	1.07	ppb
Silver	109-1	80.09	80.78	80.22	80.36	0.46	ppb
Sodium	23-2	50792.55	51044.01	50322.13	50719.56	0.72	ppb
Strontium	86-1	365.09	371.79	368.47	368.45	0.91	ppb
Strontium	88-1	361.17	370.07	367.23	366.15	1.24	ppb
Sulfur	34-1	2747.82	2869.18	2827.69	2814.90	2.19	ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	467.07	473.18	461.72	467.32	1.23	ppb
Thallium	205-1	469.91	471.28	478.08	473.09	0.93	ppb
Tin	118-1	428.13	417.66	413.51	419.77	1.80	ppb
Titanium	47-1	2299.95	2380.37	2388.19	2356.17	2.07	ppb
Uranium	238-1	481.68	465.61	464.98	470.76	2.01	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	531.25	511.07	528.97	523.76	2.11	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				196		%
Yttrium	89-2				186		%
Zinc	66-2	5658.99	5680.65	5763.73	5701.12	0.97	ppb
Zirconium	90-1	254.86	262.29	262.74	259.96	1.70	ppb
Zirconium	91-1	255.20	262.71	259.63	259.18	1.46	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	39587.40	39387.71	39911.59	39628.90	0.67	ppb
Antimony	121-1	461.50	457.05	466.18	461.57	0.99	ppb
Arsenic	75-2	29.75	30.81	30.89	30.48	2.10	ppb
Barium	135-1	2308.74	2363.90	2367.52	2346.72	1.40	ppb
Barium	137-1	2332.92	2349.37	2366.99	2349.76	0.73	ppb
Beryllium	9-1	478.64	481.76	473.39	477.93	0.88	ppb
Bismuth	209-1				98		%
Bismuth	209-2				93		%
Bromine	81-1						cps
Cadmium	108-1	439.96	440.13	448.86	442.98	1.15	ppb
Cadmium	106-1	476.40	470.87	480.45	475.91	1.01	ppb
Cadmium	111-1	452.69	464.20	463.97	460.28	1.43	ppb
Calcium	43-1	147535.76	150143.64	149257.13	148978.84	0.89	ppb
Calcium	44-1	150590.29	152021.44	149294.36	150635.36	0.91	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	470.14	465.88	464.76	466.93	0.61	ppb
Cobalt	59-2	575.76	572.21	570.20	572.73	0.49	ppb
Copper	63-2	8594.63	8581.86	8569.49	8581.99	0.15	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				111		%
Holmium	165-2				107		%
Indium	115-1				101		%
Indium	115-2				97		%
Iron	54-2	272829.80	269904.03	271312.84	271348.89	0.54	ppb
Iron	56-2	273091.40	270517.63	272595.73	272068.25	0.50	ppb
Iron	57-2	269832.17	270120.38	272106.99	270686.51	0.46	ppb
Krypton	83-1						cps
Lead	206-1	2647.22	2678.41	2697.48	2674.37	0.95	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2723.32	2687.69	2737.97	2716.33	0.95	ppb
Lead	208-1	2692.52	2693.79	2712.09	2699.47	0.41	ppb
Lithium	6-1				98		%
Magnesium	24-2	60985.36	61540.86	62203.97	61576.73	0.99	ppb
Manganese	55-2	7284.92	7212.35	7189.18	7228.82	0.69	ppb
Molybdenum	94-1	1199.80	1225.41	1205.67	1210.29	1.11	ppb
Molybdenum	95-1	882.70	918.60	895.57	898.95	2.02	ppb
Molybdenum	96-1	934.24	948.64	946.91	943.27	0.83	ppb
Molybdenum	97-1	907.07	914.29	909.70	910.35	0.40	ppb
Molybdenum	98-1	901.91	926.13	903.94	910.66	1.48	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	446.25	446.17	449.18	447.20	0.38	ppb
Phosphorus	31-2	36643.34	36880.66	37011.77	36845.26	0.51	ppb
Potassium	39-2	42150.65	42028.12	41985.15	42054.64	0.20	ppb
Rhodium	103-1				99		%
Rhodium	103-2				98		%
Scandium	45-1				112		%
Scandium	45-2				107		%
Selenium	82-1	255.52	257.60	254.61	255.91	0.60	ppb
Selenium	77-2	525.23	519.04	538.81	527.70	1.92	ppb
Selenium	78-2	297.50	307.62	304.14	303.09	1.70	ppb
Silicon	28-1	943.12	981.44	947.04	957.20	2.20	ppb
Silver	107-1	80.46	80.33	81.33	80.71	0.67	ppb
Silver	109-1	79.61	79.88	80.05	79.85	0.28	ppb
Sodium	23-2	49790.56	49356.48	49483.62	49543.55	0.45	ppb
Strontium	86-1	365.99	364.73	363.21	364.64	0.38	ppb
Strontium	88-1	367.39	360.86	365.79	364.68	0.93	ppb
Sulfur	34-1	2672.96	2987.79	2747.33	2802.69	5.87	ppb
Terbium	159-1				110		%
Terbium	159-2				107		%
Thallium	203-1	462.85	465.87	476.30	468.34	1.51	ppb
Thallium	205-1	465.02	474.75	471.47	470.41	1.05	ppb
Tin	118-1	416.92	410.34	414.66	413.98	0.81	ppb
Titanium	47-1	2312.95	2392.98	2374.76	2360.23	1.78	ppb
Uranium	238-1	461.17	466.87	472.05	466.70	1.17	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	514.26	509.08	509.05	510.80	0.59	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				198		%
Yttrium	89-2				185		%
Zinc	66-2	5638.43	5611.98	5630.40	5626.94	0.24	ppb
Zirconium	90-1	254.21	263.60	260.55	259.46	1.85	ppb
Zirconium	91-1	255.47	263.08	262.75	260.43	1.65	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	13896.85	13730.82	13200.70	13609.46	2.67	ppb
Antimony	121-1	0.08	0.07	0.08	0.08	3.04	ppb
Arsenic	75-2	14.54	15.33	15.73	15.20	3.99	ppb
Barium	135-1	84.60	85.29	84.89	84.93	0.41	ppb
Barium	137-1	85.19	85.67	85.99	85.62	0.47	ppb
Beryllium	9-1	0.79	0.79	0.81	0.80	1.83	ppb
Bismuth	209-1				103		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	1.74	1.88	2.19	1.94	11.81	ppb
Cadmium	106-1	6.60	6.17	6.32	6.36	3.48	ppb
Cadmium	111-1	1.23	1.15	1.18	1.19	3.68	ppb
Calcium	43-1	36613.09	37209.76	37135.49	36986.11	0.88	ppb
Calcium	44-1	36230.42	36807.49	37185.24	36741.05	1.31	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.60	0.60	0.55	0.58	5.36	ppb
Cobalt	59-2	47.79	47.47	46.07	47.11	1.95	ppb
Copper	63-2	1409.11	1391.87	1334.61	1378.53	2.83	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				109		%
Holmium	165-2				108		%
Indium	115-1				107		%
Indium	115-2				103		%
Iron	54-2	126518.21	124931.58	121253.81	124234.53	2.17	ppb
Iron	56-2	126043.78	126848.76	121907.92	124933.49	2.12	ppb
Iron	57-2	126423.89	127374.95	120837.49	124878.78	2.83	ppb
Krypton	83-1						cps
Lead	206-1	109.29	107.37	109.49	108.72	1.07	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	100.16	99.02	100.57	99.92	0.80	ppb
Lead	208-1	107.38	105.19	107.12	106.56	1.13	ppb
Lithium	6-1				99		%
Magnesium	24-2	7097.97	6796.00	6535.31	6809.76	4.13	ppb
Manganese	55-2	1294.38	1297.51	1257.30	1283.06	1.74	ppb
Molybdenum	94-1	10.75	10.80	10.60	10.72	0.99	ppb
Molybdenum	95-1	0.78	0.78	0.75	0.77	2.47	ppb
Molybdenum	96-1	2.13	2.15	2.13	2.14	0.61	ppb
Molybdenum	97-1	0.79	0.77	0.74	0.77	3.27	ppb
Molybdenum	98-1	0.74	0.74	0.71	0.73	2.73	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.18	3.19	2.91	3.09	5.20	ppb
Phosphorus	31-2	12723.13	12683.83	12243.52	12550.16	2.12	ppb
Potassium	39-2	6235.79	6236.38	5959.58	6143.92	2.60	ppb
Rhodium	103-1				105		%
Rhodium	103-2				105		%
Scandium	45-1				111		%
Scandium	45-2				109		%
Selenium	82-1	2.58	2.20	2.21	2.33	9.40	ppb
Selenium	77-2	141.52	156.25	132.23	143.33	8.45	ppb
Selenium	78-2	22.27	23.15	24.79	23.40	5.47	ppb
Silicon	28-1	527.04	585.66	531.55	548.08	5.95	ppb
Silver	107-1	0.31	0.32	0.33	0.32	1.94	ppb
Silver	109-1	0.30	0.32	0.32	0.31	2.96	ppb
Sodium	23-2	509.44	500.66	479.44	496.51	3.11	ppb
Strontium	86-1	16.97	17.22	17.21	17.13	0.84	ppb
Strontium	88-1	18.10	18.28	18.12	18.16	0.55	ppb
Sulfur	34-1	534.68	540.53	431.00	502.07	12.27	ppb
Terbium	159-1				108		%
Terbium	159-2				106		%
Thallium	203-1	0.44	0.42	0.40	0.42	5.07	ppb
Thallium	205-1	0.45	0.42	0.41	0.43	4.27	ppb
Tin	118-1	1.04	1.08	1.08	1.07	2.39	ppb
Titanium	47-1	927.76	921.01	926.97	925.25	0.40	ppb
Uranium	238-1	1.25	1.23	1.22	1.23	1.34	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	11.93	11.84	11.54	11.77	1.73	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				142		%
Yttrium	89-2				138		%
Zinc	66-2	359.38	356.14	338.73	351.42	3.16	ppb
Zirconium	90-1	5.50	5.59	5.45	5.51	1.37	ppb
Zirconium	91-1	5.44	5.55	5.35	5.45	1.87	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	51219.10	49997.05	50290.10	50502.08	1.26	ppb
Antimony	121-1	506.77	497.99	497.86	500.87	1.02	ppb
Arsenic	75-2	481.72	484.46	484.08	483.42	0.31	ppb
Barium	135-1	2534.81	2513.74	2478.71	2509.09	1.13	ppb
Barium	137-1	2532.58	2505.59	2477.85	2505.34	1.09	ppb
Beryllium	9-1	511.86	503.69	514.46	510.00	1.10	ppb
Bismuth	209-1				91		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	491.80	497.81	490.65	493.42	0.78	ppb
Cadmium	106-1	493.59	493.88	486.89	491.45	0.80	ppb
Cadmium	111-1	493.13	489.79	487.99	490.30	0.53	ppb
Calcium	43-1	248165.18	252198.00	242776.97	247713.38	1.91	ppb
Calcium	44-1	250356.63	251689.04	241598.86	247881.51	2.21	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	525.50	516.52	512.94	518.32	1.25	ppb
Cobalt	59-2	500.27	490.28	499.81	496.79	1.14	ppb
Copper	63-2	4810.70	4768.30	4777.37	4785.46	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				100		%
Holmium	165-2				95		%
Indium	115-1				95		%
Indium	115-2				82		%
Iron	54-2	126004.09	124569.70	126104.88	125559.56	0.68	ppb
Iron	56-2	126972.26	125467.97	123047.34	125162.52	1.58	ppb
Iron	57-2	127302.62	125942.59	123380.37	125541.86	1.59	ppb
Krypton	83-1						cps
Lead	206-1	2466.59	2508.86	2516.54	2497.33	1.08	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2491.14	2494.79	2499.78	2495.24	0.17	ppb
Lead	208-1	2491.96	2495.48	2517.12	2501.52	0.54	ppb
Lithium	6-1				91		%
Magnesium	24-2	264366.72	263245.04	259139.92	262250.56	1.05	ppb
Manganese	55-2	5065.22	5007.41	4980.18	5017.60	0.87	ppb
Molybdenum	94-1	4828.81	4915.63	4845.27	4863.24	0.95	ppb
Molybdenum	95-1	4814.39	4935.90	4910.42	4886.90	1.31	ppb
Molybdenum	96-1	4805.99	4946.54	4920.76	4891.10	1.53	ppb
Molybdenum	97-1	4783.17	4971.16	4896.44	4883.59	1.94	ppb
Molybdenum	98-1	4775.97	4926.20	4900.98	4867.72	1.65	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	466.01	457.54	456.59	460.05	1.13	ppb
Phosphorus	31-2	9982.48	9785.50	9837.27	9868.42	1.03	ppb
Potassium	39-2	125675.71	126257.43	127968.04	126633.73	0.94	ppb
Rhodium	103-1				91		%
Rhodium	103-2				88		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	469.64	482.82	478.82	477.09	1.42	ppb
Selenium	77-2	466.24	504.23	463.36	477.95	4.77	ppb
Selenium	78-2	445.22	465.69	467.57	459.49	2.70	ppb
Silicon	28-1	498.27	493.28	475.33	488.96	2.47	ppb
Silver	107-1	487.67	483.83	483.19	484.90	0.50	ppb
Silver	109-1	483.46	485.51	481.87	483.61	0.38	ppb
Sodium	23-2	262143.55	269296.50	261820.17	264420.07	1.60	ppb
Strontium	86-1	495.38	505.59	490.92	497.30	1.51	ppb
Strontium	88-1	489.23	496.35	497.35	494.31	0.90	ppb
Sulfur	34-1	10192.61	10019.77	9387.16	9866.51	4.30	ppb
Terbium	159-1				100		%
Terbium	159-2				95		%
Thallium	203-1	494.67	504.06	502.32	500.35	1.00	ppb
Thallium	205-1	498.50	508.35	513.35	506.73	1.49	ppb
Tin	118-1	499.55	492.81	490.79	494.39	0.93	ppb
Titanium	47-1	4825.85	4882.62	4808.55	4839.01	0.80	ppb
Uranium	238-1	502.63	501.26	508.75	504.21	0.79	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	516.05	506.91	518.42	513.79	1.18	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				100		%
Yttrium	89-2				95		%
Zinc	66-2	4928.91	4844.32	4851.64	4874.96	0.96	ppb
Zirconium	90-1	489.16	493.89	486.97	490.01	0.72	ppb
Zirconium	91-1	488.67	492.70	493.42	491.60	0.52	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	27.57	25.26	27.14	26.66	4.61	ppb
Antimony	121-1	0.12	0.11	0.09	0.11	15.08	ppb
Arsenic	75-2	0.00	0.01	0.01	0.01	61.36	ppb
Barium	135-1	0.04	0.03	0.02	0.03	26.76	ppb
Barium	137-1	0.04	0.02	0.03	0.03	32.27	ppb
Beryllium	9-1	0.06	0.06	0.04	0.05	20.77	ppb
Bismuth	209-1				108		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.02	0.05	0.04	44.30	ppb
Cadmium	106-1	-0.16	0.09	0.13	0.02	876.81	ppb
Cadmium	111-1	0.01	0.03	0.03	0.02	44.82	ppb
Calcium	43-1	1.63	0.10	-0.32	0.47	218.21	ppb
Calcium	44-1	4.60	2.60	2.71	3.30	34.09	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.01	0.01	-0.01	0.01	154.81	ppb
Cobalt	59-2	0.00	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.08	0.07	0.05	0.07	23.70	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				101		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	2.36	2.36	1.28	2.00	31.20	ppb
Iron	56-2	2.12	1.80	1.58	1.84	14.73	ppb
Iron	57-2	2.79	2.00	2.55	2.44	16.56	ppb
Krypton	83-1						cps
Lead	206-1	0.20	0.19	0.18	0.19	6.58	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.21	0.18	0.18	0.19	11.05	ppb
Lead	208-1	0.20	0.18	0.17	0.19	9.15	ppb
Lithium	6-1				104		%
Magnesium	24-2	0.86	-0.14	-0.13	0.19	298.77	ppb
Manganese	55-2	0.16	0.06	0.05	0.09	66.85	ppb
Molybdenum	94-1	0.29	0.22	0.19	0.23	20.62	ppb
Molybdenum	95-1	0.16	0.11	0.09	0.12	29.32	ppb
Molybdenum	96-1	0.19	0.13	0.11	0.14	29.32	ppb
Molybdenum	97-1	0.16	0.12	0.09	0.12	29.54	ppb
Molybdenum	98-1	0.17	0.11	0.10	0.13	28.54	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.03	-0.05	-0.02	-0.03		ppb
Phosphorus	31-2	-22.35	-23.45	-19.90	-21.90		ppb
Potassium	39-2	15.13	11.05	11.40	12.53	18.02	ppb
Rhodium	103-1				108		%
Rhodium	103-2				105		%
Scandium	45-1				109		%
Scandium	45-2				104		%
Selenium	82-1	-0.02	0.19	-0.17	0.00		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.50	-0.43	-0.12	-0.02		ppb
Silicon	28-1	-0.22	-0.28	-0.15	-0.22		ppb
Silver	107-1	0.04	0.04	0.03	0.04	14.46	ppb
Silver	109-1	0.04	0.03	0.03	0.03	20.43	ppb
Sodium	23-2	29.69	27.64	26.09	27.81	6.51	ppb
Strontium	86-1	0.01	-0.01	0.00	0.00	1222.24	ppb
Strontium	88-1	0.01	0.00	0.00	0.00	35.28	ppb
Sulfur	34-1	-205.46	-273.34	-141.97	-206.92		ppb
Terbium	159-1				107		%
Terbium	159-2				103		%
Thallium	203-1	0.06	0.06	0.05	0.06	8.69	ppb
Thallium	205-1	0.07	0.06	0.05	0.06	12.31	ppb
Tin	118-1	0.04	0.02	0.02	0.03	34.13	ppb
Titanium	47-1	0.05	0.02	-0.01	0.02	172.14	ppb
Uranium	238-1	0.00	0.00	0.00	0.00	70.34	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	25.65	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				110		%
Yttrium	89-2				102		%
Zinc	66-2	0.37	0.32	0.38	0.36	8.60	ppb
Zirconium	90-1	0.07	0.06	0.06	0.07	6.81	ppb
Zirconium	91-1	0.08	0.07	0.06	0.07	12.89	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	14838.80	14586.18	14813.59	14746.19	0.94	ppb
Antimony	121-1	0.10	0.09	0.09	0.09	0.87	ppb
Arsenic	75-2	15.88	16.32	15.93	16.04	1.52	ppb
Barium	135-1	89.28	89.79	89.24	89.44	0.35	ppb
Barium	137-1	90.01	90.56	90.43	90.33	0.32	ppb
Beryllium	9-1	0.81	0.79	0.80	0.80	0.90	ppb
Bismuth	209-1				104		%
Bismuth	209-2				99		%
Bromine	81-1						cps
Cadmium	108-1	1.97	2.34	1.98	2.10	10.06	ppb
Cadmium	106-1	7.49	7.20	6.70	7.13	5.62	ppb
Cadmium	111-1	1.33	1.31	1.24	1.30	3.57	ppb
Calcium	43-1	38384.64	37587.05	37803.46	37925.05	1.09	ppb
Calcium	44-1	37798.75	37762.18	36937.35	37499.43	1.30	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.58	0.60	0.63	0.61	4.31	ppb
Cobalt	59-2	50.04	50.32	50.44	50.27	0.41	ppb
Copper	63-2	1475.85	1465.12	1459.81	1466.93	0.56	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				105		%
Indium	115-1				107		%
Indium	115-2				102		%
Iron	54-2	135076.68	133148.84	135134.77	134453.43	0.84	ppb
Iron	56-2	137109.24	132958.63	135844.87	135304.25	1.57	ppb
Iron	57-2	136508.83	136646.38	134306.04	135820.42	0.97	ppb
Krypton	83-1						cps
Lead	206-1	113.19	114.53	110.04	112.59	2.05	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	110.01	111.39	109.33	110.25	0.95	ppb
Lead	208-1	111.70	113.49	110.19	111.79	1.48	ppb
Lithium	6-1				101		%
Magnesium	24-2	7551.34	7470.79	7567.42	7529.85	0.69	ppb
Manganese	55-2	1417.81	1390.01	1388.34	1398.72	1.18	ppb
Molybdenum	94-1	10.95	11.05	10.98	10.99	0.48	ppb
Molybdenum	95-1	0.79	0.77	0.81	0.79	2.41	ppb
Molybdenum	96-1	2.23	2.25	2.26	2.25	0.60	ppb
Molybdenum	97-1	0.79	0.78	0.80	0.79	1.53	ppb
Molybdenum	98-1	0.78	0.78	0.78	0.78	0.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	3.32	3.35	3.37	3.35	0.74	ppb
Phosphorus	31-2	13083.96	13030.59	13186.55	13100.37	0.61	ppb
Potassium	39-2	6518.48	6452.85	6558.10	6509.81	0.82	ppb
Rhodium	103-1				105		%
Rhodium	103-2				102		%
Scandium	45-1				113		%
Scandium	45-2				106		%
Selenium	82-1	2.47	2.48	2.63	2.53	3.44	ppb
Selenium	77-2	155.39	138.19	138.26	143.95	6.89	ppb
Selenium	78-2	24.05	23.98	26.18	24.74	5.06	ppb
Silicon	28-1	555.65	562.22	561.89	559.92	0.66	ppb
Silver	107-1	0.31	0.32	0.32	0.32	2.00	ppb
Silver	109-1	0.31	0.32	0.33	0.32	3.88	ppb
Sodium	23-2	530.34	524.93	533.85	529.71	0.85	ppb
Strontium	86-1	17.42	17.44	17.73	17.53	0.98	ppb
Strontium	88-1	18.66	18.90	18.99	18.85	0.89	ppb
Sulfur	34-1	554.01	613.26	469.51	545.59	13.24	ppb
Terbium	159-1				107		%
Terbium	159-2				105		%
Thallium	203-1	0.33	0.36	0.35	0.35	3.91	ppb
Thallium	205-1	0.37	0.37	0.34	0.36	3.63	ppb
Tin	118-1	1.14	1.10	1.06	1.10	3.70	ppb
Titanium	47-1	977.35	969.96	963.40	970.24	0.72	ppb
Uranium	238-1	1.24	1.26	1.24	1.25	0.76	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	12.63	12.63	12.72	12.66	0.43	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				141		%
Yttrium	89-2				137		%
Zinc	66-2	372.55	370.22	377.37	373.38	0.98	ppb
Zirconium	90-1	5.75	5.67	5.73	5.72	0.76	ppb
Zirconium	91-1	5.72	5.63	5.63	5.66	0.84	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2891.46	2846.03	2878.17	2871.89	0.81	ppb
Antimony	121-1	0.04	0.04	0.05	0.04	5.64	ppb
Arsenic	75-2	3.96	4.07	4.03	4.02	1.40	ppb
Barium	135-1	16.78	17.22	17.30	17.10	1.63	ppb
Barium	137-1	16.77	17.06	17.12	16.98	1.08	ppb
Beryllium	9-1	0.15	0.15	0.17	0.16	6.15	ppb
Bismuth	209-1				107		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.39	0.40	0.35	0.38	6.64	ppb
Cadmium	106-1	1.14	0.43	0.90	0.83	43.54	ppb
Cadmium	111-1	0.23	0.18	0.23	0.21	15.11	ppb
Calcium	43-1	7311.16	7333.59	7272.69	7305.81	0.42	ppb
Calcium	44-1	7459.88	7404.66	7263.10	7375.88	1.38	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.17	0.18	0.17	0.17	3.43	ppb
Cobalt	59-2	9.90	9.88	10.18	9.98	1.68	ppb
Copper	63-2	293.06	304.70	304.43	300.73	2.21	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				107		%
Holmium	165-2				103		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	25977.33	26080.56	26160.56	26072.82	0.35	ppb
Iron	56-2	26367.63	26557.73	26673.97	26533.11	0.58	ppb
Iron	57-2	26913.10	26977.04	27350.62	27080.25	0.87	ppb
Krypton	83-1						cps
Lead	206-1	19.52	19.35	20.00	19.62	1.71	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.51	19.31	19.74	19.52	1.10	ppb
Lead	208-1	19.55	19.41	19.91	19.62	1.32	ppb
Lithium	6-1				100		%
Magnesium	24-2	1395.76	1412.74	1425.36	1411.29	1.05	ppb
Manganese	55-2	258.63	253.38	260.02	257.34	1.36	ppb
Molybdenum	94-1	2.55	2.62	2.55	2.58	1.65	ppb
Molybdenum	95-1	0.17	0.19	0.18	0.18	3.67	ppb
Molybdenum	96-1	0.55	0.55	0.53	0.54	2.54	ppb
Molybdenum	97-1	0.17	0.18	0.19	0.18	4.96	ppb
Molybdenum	98-1	0.18	0.18	0.18	0.18	1.06	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	1.07	1.13	1.10	1.10	2.83	ppb
Phosphorus	31-2	2734.01	2540.08	2687.38	2653.83	3.81	ppb
Potassium	39-2	1307.99	1295.84	1322.93	1308.92	1.04	ppb
Rhodium	103-1				108		%
Rhodium	103-2				104		%
Scandium	45-1				111		%
Scandium	45-2				104		%
Selenium	82-1	0.55	0.92	0.56	0.68	31.16	ppb
Selenium	77-2	38.15	31.54	28.62	32.77	14.90	ppb
Selenium	78-2	4.49	6.22	5.33	5.35	16.16	ppb
Silicon	28-1	108.40	108.27	106.69	107.79	0.88	ppb
Silver	107-1	0.07	0.07	0.07	0.07	2.75	ppb
Silver	109-1	0.06	0.07	0.07	0.07	8.36	ppb
Sodium	23-2	115.63	116.94	117.93	116.84	0.99	ppb
Strontium	86-1	4.05	4.24	4.12	4.14	2.25	ppb
Strontium	88-1	4.13	4.22	4.17	4.17	1.08	ppb
Sulfur	34-1	-67.11	-236.75	-307.15	-203.67		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.08	0.09	0.08	0.09	8.13	ppb
Thallium	205-1	0.09	0.08	0.09	0.09	3.94	ppb
Tin	118-1	0.15	0.18	0.17	0.16	8.18	ppb
Titanium	47-1	179.78	180.00	176.55	178.78	1.08	ppb
Uranium	238-1	0.24	0.23	0.23	0.23	2.53	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.43	2.40	2.55	2.46	3.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				109		%
Zinc	66-2	81.44	82.17	83.03	82.21	0.97	ppb
Zirconium	90-1	1.30	1.34	1.35	1.33	1.93	ppb
Zirconium	91-1	1.29	1.37	1.31	1.33	3.12	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	6503.52	6715.96	6530.19	6583.22	1.76	ppb
Antimony	121-1	95.72	95.62	94.71	95.35	0.58	ppb
Arsenic	75-2	7.56	8.04	8.12	7.90	3.85	ppb
Barium	135-1	468.69	472.68	460.30	467.22	1.35	ppb
Barium	137-1	465.60	468.73	465.02	466.45	0.43	ppb
Beryllium	9-1	96.25	96.50	98.97	97.24	1.54	ppb
Bismuth	209-1				104		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	91.27	91.89	91.78	91.65	0.36	ppb
Cadmium	106-1	98.28	98.92	99.10	98.77	0.44	ppb
Cadmium	111-1	91.15	93.13	93.27	92.52	1.28	ppb
Calcium	43-1	29312.84	29310.13	28726.41	29116.46	1.16	ppb
Calcium	44-1	28416.95	29317.05	28459.54	28731.18	1.77	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	87.89	90.72	88.64	89.09	1.65	ppb
Cobalt	59-2	111.92	114.99	111.45	112.78	1.70	ppb
Copper	63-2	1737.02	1751.92	1722.47	1737.14	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				108		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				103		%
Iron	54-2	50011.29	51362.16	50893.94	50755.80	1.35	ppb
Iron	56-2	51456.47	52465.21	51274.45	51732.04	1.24	ppb
Iron	57-2	50529.41	51594.36	50767.66	50963.81	1.10	ppb
Krypton	83-1						cps
Lead	206-1	515.11	509.56	537.39	520.68	2.83	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	516.61	520.30	535.16	524.02	1.87	ppb
Lead	208-1	516.96	519.54	532.52	523.01	1.59	ppb
Lithium	6-1				100		%
Magnesium	24-2	12433.68	12598.83	12385.07	12472.52	0.90	ppb
Manganese	55-2	1475.15	1511.68	1495.79	1494.21	1.23	ppb
Molybdenum	94-1	372.53	373.13	371.20	372.29	0.27	ppb
Molybdenum	95-1	280.11	283.30	275.27	279.56	1.45	ppb
Molybdenum	96-1	289.12	292.54	285.73	289.13	1.18	ppb
Molybdenum	97-1	278.36	284.72	279.51	280.86	1.21	ppb
Molybdenum	98-1	274.75	283.59	276.65	278.33	1.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	92.96	94.12	92.97	93.35	0.71	ppb
Phosphorus	31-2	7715.66	7833.52	7759.77	7769.65	0.77	ppb
Potassium	39-2	7462.04	7418.42	7240.65	7373.70	1.59	ppb
Rhodium	103-1				106		%
Rhodium	103-2				104		%
Scandium	45-1				111		%
Scandium	45-2				107		%
Selenium	82-1	80.62	81.93	81.12	81.22	0.81	ppb
Selenium	77-2	154.63	162.50	176.37	164.50	6.69	ppb
Selenium	78-2	97.87	83.66	85.49	89.00	8.69	ppb
Silicon	28-1	245.08	245.30	242.53	244.31	0.63	ppb
Silver	107-1	15.57	15.90	15.93	15.80	1.27	ppb
Silver	109-1	15.55	16.05	15.88	15.82	1.62	ppb
Sodium	23-2	10054.60	10377.76	10025.12	10152.49	1.93	ppb
Strontium	86-1	98.61	99.60	98.51	98.91	0.61	ppb
Strontium	88-1	102.16	104.61	103.37	103.38	1.19	ppb
Sulfur	34-1	163.30	155.60	118.52	145.81	16.42	ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	89.36	89.05	94.19	90.87	3.17	ppb
Thallium	205-1	89.18	90.99	93.34	91.17	2.29	ppb
Tin	118-1	85.66	86.47	87.34	86.49	0.97	ppb
Titanium	47-1	353.34	347.83	346.28	349.15	1.06	ppb
Uranium	238-1	87.02	87.89	87.30	87.40	0.51	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	97.21	99.00	96.80	97.67	1.20	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				128		%
Yttrium	89-2				123		%
Zinc	66-2	1117.38	1127.64	1101.02	1115.35	1.20	ppb
Zirconium	90-1	78.51	79.57	79.24	79.11	0.69	ppb
Zirconium	91-1	73.96	75.78	75.63	75.12	1.35	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8103.57	8104.83	8041.41	8083.27	0.45	ppb
Antimony	121-1	94.49	97.13	95.86	95.83	1.38	ppb
Arsenic	75-2	9.16	9.61	9.71	9.49	3.09	ppb
Barium	135-1	473.86	480.86	480.61	478.44	0.83	ppb
Barium	137-1	476.01	475.53	480.54	477.36	0.58	ppb
Beryllium	9-1	97.19	99.44	98.79	98.47	1.17	ppb
Bismuth	209-1				105		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	90.45	93.82	92.55	92.27	1.84	ppb
Cadmium	106-1	97.11	98.95	98.32	98.13	0.95	ppb
Cadmium	111-1	91.62	92.22	93.17	92.34	0.85	ppb
Calcium	43-1	29283.31	29702.30	29993.70	29659.77	1.20	ppb
Calcium	44-1	29537.87	29863.60	29623.75	29675.07	0.57	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90.33	90.55	88.66	89.85	1.15	ppb
Cobalt	59-2	115.60	115.33	114.88	115.27	0.31	ppb
Copper	63-2	1819.49	1814.27	1798.46	1810.74	0.60	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				101		%
Iron	54-2	56175.01	56618.96	56528.65	56440.87	0.42	ppb
Iron	56-2	56569.68	55851.53	55686.44	56035.88	0.84	ppb
Iron	57-2	55693.37	55606.44	55276.02	55525.27	0.40	ppb
Krypton	83-1						cps
Lead	206-1	510.33	515.35	505.43	510.37	0.97	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	513.15	522.89	503.71	513.25	1.87	ppb
Lead	208-1	513.11	523.91	511.51	516.18	1.31	ppb
Lithium	6-1				99		%
Magnesium	24-2	12809.08	12803.69	13091.96	12901.58	1.28	ppb
Manganese	55-2	1490.83	1506.30	1502.77	1499.97	0.54	ppb
Molybdenum	94-1	370.95	372.71	389.48	377.71	2.71	ppb
Molybdenum	95-1	281.02	281.88	283.62	282.17	0.47	ppb
Molybdenum	96-1	291.59	290.08	295.38	292.35	0.93	ppb
Molybdenum	97-1	285.11	275.99	288.25	283.12	2.25	ppb
Molybdenum	98-1	282.60	277.61	287.02	282.41	1.67	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	95.48	94.73	95.51	95.24	0.47	ppb
Phosphorus	31-2	7723.39	7763.30	7640.49	7709.06	0.81	ppb
Potassium	39-2	8738.17	8733.58	8676.31	8716.02	0.40	ppb
Rhodium	103-1				106		%
Rhodium	103-2				103		%
Scandium	45-1				113		%
Scandium	45-2				107		%
Selenium	82-1	80.77	81.67	84.65	82.36	2.47	ppb
Selenium	77-2	156.18	166.63	168.03	163.61	3.96	ppb
Selenium	78-2	97.33	98.50	91.00	95.61	4.22	ppb
Silicon	28-1	188.92	195.70	192.81	192.48	1.77	ppb
Silver	107-1	15.40	15.81	15.86	15.69	1.60	ppb
Silver	109-1	15.49	15.81	15.94	15.75	1.47	ppb
Sodium	23-2	10299.08	10149.81	10094.02	10180.97	1.04	ppb
Strontium	86-1	108.56	108.25	110.66	109.15	1.20	ppb
Strontium	88-1	114.02	113.60	115.70	114.44	0.97	ppb
Sulfur	34-1	190.53	316.92	337.19	281.54	28.23	ppb
Terbium	159-1				109		%
Terbium	159-2				105		%
Thallium	203-1	90.08	90.62	88.14	89.61	1.46	ppb
Thallium	205-1	90.63	90.68	91.19	90.84	0.34	ppb
Tin	118-1	85.09	86.94	86.67	86.23	1.16	ppb
Titanium	47-1	460.62	477.12	472.23	469.99	1.80	ppb
Uranium	238-1	87.44	89.04	88.59	88.36	0.93	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	98.92	99.27	98.55	98.91	0.37	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				127		%
Yttrium	89-2				121		%
Zinc	66-2	1128.69	1136.45	1133.16	1132.77	0.34	ppb
Zirconium	90-1	81.59	80.92	81.58	81.36	0.47	ppb
Zirconium	91-1	75.84	76.42	78.26	76.84	1.64	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	8251.88	8180.12	8125.98	8186.00	0.77	ppb
Antimony	121-1	97.29	95.62	97.46	96.79	1.05	ppb
Arsenic	75-2	9.79	9.59	9.41	9.59	1.99	ppb
Barium	135-1	499.40	488.51	482.50	490.13	1.75	ppb
Barium	137-1	494.21	476.91	487.51	486.21	1.79	ppb
Beryllium	9-1	98.67	99.38	100.38	99.48	0.86	ppb
Bismuth	209-1				104		%
Bismuth	209-2				100		%
Bromine	81-1						cps
Cadmium	108-1	93.92	92.44	94.41	93.59	1.10	ppb
Cadmium	106-1	100.14	97.86	100.41	99.47	1.41	ppb
Cadmium	111-1	92.69	91.59	93.21	92.49	0.89	ppb
Calcium	43-1	30136.74	31001.13	30631.99	30589.96	1.42	ppb
Calcium	44-1	29564.47	30782.19	30176.69	30174.45	2.02	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	90.84	91.11	91.63	91.19	0.44	ppb
Cobalt	59-2	117.14	117.79	116.46	117.13	0.57	ppb
Copper	63-2	1837.44	1833.87	1859.75	1843.68	0.76	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				103		%
Iron	54-2	57421.72	56954.11	56196.23	56857.35	1.09	ppb
Iron	56-2	58062.55	57059.87	56634.07	57252.16	1.28	ppb
Iron	57-2	56836.64	57224.10	56299.20	56786.65	0.82	ppb
Krypton	83-1						cps
Lead	206-1	526.68	516.52	515.04	519.41	1.22	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	532.72	524.32	526.13	527.72	0.84	ppb
Lead	208-1	528.03	524.04	524.30	525.46	0.43	ppb
Lithium	6-1				99		%
Magnesium	24-2	13244.85	12990.62	13092.90	13109.46	0.98	ppb
Manganese	55-2	1543.28	1525.56	1507.08	1525.31	1.19	ppb
Molybdenum	94-1	377.87	381.95	375.19	378.34	0.90	ppb
Molybdenum	95-1	283.69	285.91	281.07	283.56	0.85	ppb
Molybdenum	96-1	294.99	298.52	296.00	296.50	0.61	ppb
Molybdenum	97-1	291.11	287.65	290.65	289.80	0.65	ppb
Molybdenum	98-1	282.92	288.69	285.42	285.68	1.01	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	97.34	97.42	96.85	97.21	0.32	ppb
Phosphorus	31-2	7653.63	7768.94	7496.01	7639.53	1.79	ppb
Potassium	39-2	8788.40	8729.48	8946.98	8821.62	1.28	ppb
Rhodium	103-1				107		%
Rhodium	103-2				104		%
Scandium	45-1				112		%
Scandium	45-2				106		%
Selenium	82-1	81.28	82.84	81.75	81.96	0.97	ppb
Selenium	77-2	171.85	173.43	146.25	163.84	9.31	ppb
Selenium	78-2	97.78	89.74	96.75	94.75	4.62	ppb
Silicon	28-1	192.43	194.45	197.89	194.92	1.42	ppb
Silver	107-1	15.94	15.75	16.01	15.90	0.85	ppb
Silver	109-1	15.96	15.98	15.92	15.95	0.20	ppb
Sodium	23-2	10394.16	10336.25	10285.88	10338.77	0.52	ppb
Strontium	86-1	108.76	110.62	109.83	109.73	0.85	ppb
Strontium	88-1	115.18	116.65	115.61	115.81	0.66	ppb
Sulfur	34-1	181.78	342.91	372.19	298.96	34.30	ppb
Terbium	159-1				109		%
Terbium	159-2				104		%
Thallium	203-1	93.53	92.50	91.78	92.61	0.95	ppb
Thallium	205-1	92.15	91.99	91.61	91.92	0.30	ppb
Tin	118-1	87.36	85.24	84.98	85.86	1.52	ppb
Titanium	47-1	468.16	486.64	488.31	481.04	2.33	ppb
Uranium	238-1	90.04	89.31	88.93	89.43	0.63	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	102.36	99.73	100.51	100.87	1.34	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				128		%
Yttrium	89-2				121		%
Zinc	66-2	1146.40	1150.83	1148.36	1148.53	0.19	ppb
Zirconium	90-1	81.43	82.71	81.51	81.88	0.87	ppb
Zirconium	91-1	76.78	77.55	77.30	77.21	0.51	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2729.22	2754.91	2759.52	2747.88	0.59	ppb
Antimony	121-1	0.03	0.03	0.02	0.03	6.38	ppb
Arsenic	75-2	3.70	3.79	3.77	3.75	1.29	ppb
Barium	135-1	16.54	16.69	16.53	16.59	0.55	ppb
Barium	137-1	16.69	16.76	16.65	16.70	0.31	ppb
Beryllium	9-1	0.16	0.16	0.16	0.16	1.84	ppb
Bismuth	209-1				106		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.41	0.35	0.31	0.36	13.33	ppb
Cadmium	106-1	0.96	0.62	0.74	0.77	22.40	ppb
Cadmium	111-1	0.23	0.20	0.21	0.21	7.67	ppb
Calcium	43-1	7121.34	7061.15	7122.05	7101.51	0.49	ppb
Calcium	44-1	7283.60	7057.44	7156.73	7165.92	1.58	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.09	0.09	0.09	5.60	ppb
Cobalt	59-2	9.66	9.61	9.74	9.67	0.67	ppb
Copper	63-2	295.37	297.99	290.77	294.71	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				109		%
Holmium	165-2				104		%
Indium	115-1				110		%
Indium	115-2				104		%
Iron	54-2	25422.87	25116.66	24994.18	25177.90	0.88	ppb
Iron	56-2	26106.25	25406.85	25619.95	25711.02	1.39	ppb
Iron	57-2	26597.38	25971.00	26272.02	26280.13	1.19	ppb
Krypton	83-1						cps
Lead	206-1	19.37	19.40	19.45	19.41	0.23	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.09	19.24	19.26	19.20	0.47	ppb
Lead	208-1	19.29	19.37	19.42	19.36	0.33	ppb
Lithium	6-1				100		%
Magnesium	24-2	1376.74	1359.21	1389.46	1375.14	1.10	ppb
Manganese	55-2	249.67	246.76	248.84	248.42	0.60	ppb
Molybdenum	94-1	2.55	2.62	2.57	2.58	1.34	ppb
Molybdenum	95-1	0.20	0.19	0.18	0.19	5.87	ppb
Molybdenum	96-1	0.54	0.53	0.51	0.53	2.56	ppb
Molybdenum	97-1	0.21	0.18	0.19	0.20	8.73	ppb
Molybdenum	98-1	0.19	0.18	0.18	0.19	3.70	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.66	0.59	0.59	0.61	6.43	ppb
Phosphorus	31-2	2451.92	2519.67	2512.95	2494.85	1.50	ppb
Potassium	39-2	1245.47	1244.24	1263.15	1250.95	0.85	ppb
Rhodium	103-1				109		%
Rhodium	103-2				107		%
Scandium	45-1				112		%
Scandium	45-2				106		%
Selenium	82-1	0.84	0.46	0.66	0.66	29.23	ppb
Selenium	77-2	24.07	36.21	41.89	34.06	26.73	ppb
Selenium	78-2	7.11	5.44	5.04	5.86	18.71	ppb
Silicon	28-1	103.64	99.97	104.04	102.55	2.19	ppb
Silver	107-1	0.08	0.07	0.07	0.07	2.55	ppb
Silver	109-1	0.08	0.08	0.07	0.08	4.05	ppb
Sodium	23-2	109.93	107.19	108.24	108.45	1.27	ppb
Strontium	86-1	3.98	4.11	4.12	4.07	1.89	ppb
Strontium	88-1	4.04	4.15	4.06	4.08	1.43	ppb
Sulfur	34-1	-142.54	-191.84	-188.74	-174.37		ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.14	0.12	0.12	0.13	9.43	ppb
Thallium	205-1	0.14	0.12	0.12	0.13	7.51	ppb
Tin	118-1	0.15	0.16	0.16	0.16	3.33	ppb
Titanium	47-1	175.74	176.97	175.77	176.16	0.40	ppb
Uranium	238-1	0.23	0.23	0.22	0.23	0.88	ppb

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.43	2.27	2.35	2.35	3.46	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				116		%
Yttrium	89-2				111		%
Zinc	66-2	71.68	71.56	70.96	71.40	0.54	ppb
Zirconium	90-1	1.34	1.37	1.37	1.36	1.31	ppb
Zirconium	91-1	1.32	1.37	1.34	1.35	1.80	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2977.11	2986.86	2962.54	2975.50	0.41	ppb
Antimony	121-1	0.02	0.02	0.02	0.02	6.52	ppb
Arsenic	75-2	3.97	3.85	4.04	3.95	2.45	ppb
Barium	135-1	17.22	17.53	17.97	17.57	2.13	ppb
Barium	137-1	17.46	17.74	18.24	17.81	2.23	ppb
Beryllium	9-1	0.15	0.16	0.15	0.15	5.92	ppb
Bismuth	209-1				106		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.44	0.40	0.40	0.41	6.46	ppb
Cadmium	106-1	0.49	0.86	1.47	0.94	52.47	ppb
Cadmium	111-1	0.17	0.20	0.26	0.21	23.51	ppb
Calcium	43-1	7373.26	7477.82	7261.97	7371.02	1.46	ppb
Calcium	44-1	7517.07	7672.02	7394.65	7527.91	1.85	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.10	0.11	0.09	0.10	10.83	ppb
Cobalt	59-2	10.12	10.13	10.21	10.15	0.48	ppb
Copper	63-2	305.67	301.77	297.26	301.57	1.40	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				109		%
Holmium	165-2				105		%
Indium	115-1				111		%
Indium	115-2				105		%
Iron	54-2	27004.16	27547.11	27133.37	27228.22	1.04	ppb
Iron	56-2	26873.08	27501.73	28049.32	27474.71	2.14	ppb
Iron	57-2	27502.12	27642.82	28383.34	27842.76	1.70	ppb
Krypton	83-1						cps
Lead	206-1	19.85	20.23	20.70	20.26	2.10	ppb

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	19.79	20.08	20.38	20.08	1.46	ppb
Lead	208-1	19.87	20.27	20.47	20.20	1.52	ppb
Lithium	6-1				99		%
Magnesium	24-2	1468.12	1450.44	1441.94	1453.50	0.92	ppb
Manganese	55-2	264.31	267.29	266.51	266.04	0.58	ppb
Molybdenum	94-1	2.64	2.65	2.64	2.64	0.14	ppb
Molybdenum	95-1	0.19	0.18	0.19	0.19	3.20	ppb
Molybdenum	96-1	0.54	0.52	0.55	0.54	3.46	ppb
Molybdenum	97-1	0.16	0.18	0.18	0.17	5.76	ppb
Molybdenum	98-1	0.18	0.19	0.18	0.18	3.20	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.70	0.69	0.69	0.69	1.24	ppb
Phosphorus	31-2	2485.57	2635.30	2625.28	2582.05	3.24	ppb
Potassium	39-2	1288.77	1313.54	1305.38	1302.57	0.97	ppb
Rhodium	103-1				110		%
Rhodium	103-2				106		%
Scandium	45-1				113		%
Scandium	45-2				105		%
Selenium	82-1	0.54	0.66	0.51	0.57	14.29	ppb
Selenium	77-2	37.69	29.38	34.47	33.84	12.38	ppb
Selenium	78-2	4.43	7.36	5.68	5.82	25.20	ppb
Silicon	28-1	110.33	110.73	108.08	109.71	1.30	ppb
Silver	107-1	0.07	0.07	0.07	0.07	5.55	ppb
Silver	109-1	0.06	0.06	0.07	0.06	3.97	ppb
Sodium	23-2	112.23	114.30	112.28	112.94	1.04	ppb
Strontium	86-1	4.17	4.20	4.25	4.20	1.00	ppb
Strontium	88-1	4.17	4.17	4.27	4.21	1.40	ppb
Sulfur	34-1	-205.15	-221.60	-349.76	-258.84		ppb
Terbium	159-1				108		%
Terbium	159-2				105		%
Thallium	203-1	0.10	0.10	0.10	0.10	2.30	ppb
Thallium	205-1	0.10	0.09	0.10	0.10	2.59	ppb
Tin	118-1	0.19	0.17	0.17	0.17	5.74	ppb
Titanium	47-1	188.01	189.66	186.37	188.01	0.87	ppb
Uranium	238-1	0.23	0.24	0.24	0.24	1.41	ppb

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	2.57	2.55	2.43	2.52	2.92	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				118		%
Yttrium	89-2				113		%
Zinc	66-2	75.40	76.50	75.56	75.82	0.78	ppb
Zirconium	90-1	1.35	1.40	1.40	1.38	1.95	ppb
Zirconium	91-1	1.31	1.38	1.38	1.36	3.09	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	551.40	546.38	545.51	547.76	0.58	ppb
Antimony	121-1	0.01	0.01	0.01	0.01	8.10	ppb
Arsenic	75-2	0.81	0.78	0.73	0.77	5.45	ppb
Barium	135-1	3.17	3.27	3.34	3.26	2.67	ppb
Barium	137-1	3.27	3.33	3.39	3.33	1.67	ppb
Beryllium	9-1	0.03	0.03	0.03	0.03	11.15	ppb
Bismuth	209-1				108		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	0.08	0.13	0.02	0.08	70.81	ppb
Cadmium	106-1	-0.71	-0.53	-0.67	-0.64		ppb
Cadmium	111-1	-0.02	-0.03	-0.02	-0.02		ppb
Calcium	43-1	1379.74	1388.49	1410.20	1392.81	1.13	ppb
Calcium	44-1	1457.18	1435.40	1438.26	1443.61	0.82	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	0.02	41.79	ppb
Cobalt	59-2	1.87	1.96	1.88	1.91	2.63	ppb
Copper	63-2	55.79	55.65	54.03	55.16	1.77	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				102		%
Indium	115-1				111		%
Indium	115-2				103		%
Iron	54-2	5009.84	4980.27	4884.58	4958.23	1.32	ppb
Iron	56-2	5266.43	5164.51	5172.06	5201.00	1.09	ppb
Iron	57-2	4969.47	4942.60	4880.11	4930.73	0.93	ppb
Krypton	83-1						cps
Lead	206-1	3.75	3.85	3.85	3.82	1.53	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	3.72	3.78	3.79	3.77	1.01	ppb
Lead	208-1	3.77	3.79	3.79	3.78	0.37	ppb
Lithium	6-1				99		%
Magnesium	24-2	279.17	276.17	262.00	272.45	3.37	ppb
Manganese	55-2	51.04	49.88	49.14	50.02	1.91	ppb
Molybdenum	94-1	0.52	0.55	0.57	0.55	4.13	ppb
Molybdenum	95-1	0.04	0.03	0.03	0.03	16.26	ppb
Molybdenum	96-1	0.11	0.10	0.10	0.10	5.59	ppb
Molybdenum	97-1	0.03	0.03	0.03	0.03	2.40	ppb
Molybdenum	98-1	0.03	0.03	0.03	0.03	0.35	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	0.08	0.13	0.09	0.10	26.08	ppb
Phosphorus	31-2	491.92	484.19	474.93	483.68	1.76	ppb
Potassium	39-2	262.38	257.73	252.94	257.68	1.83	ppb
Rhodium	103-1				110		%
Rhodium	103-2				106		%
Scandium	45-1				113		%
Scandium	45-2				105		%
Selenium	82-1	0.24	0.12	0.14	0.17	40.16	ppb
Selenium	77-2	9.53	7.82	6.20	7.85	21.17	ppb
Selenium	78-2	0.94	0.92	1.05	0.97	7.42	ppb
Silicon	28-1	19.62	19.82	20.19	19.88	1.44	ppb
Silver	107-1	0.02	0.01	0.02	0.02	11.00	ppb
Silver	109-1	0.02	0.01	0.02	0.02	14.61	ppb
Sodium	23-2	29.79	30.74	26.96	29.17	6.74	ppb
Strontium	86-1	0.84	0.81	0.86	0.84	2.73	ppb
Strontium	88-1	0.85	0.83	0.84	0.84	1.01	ppb
Sulfur	34-1	-563.34	-533.77	-442.59	-513.23		ppb
Terbium	159-1				109		%
Terbium	159-2				102		%
Thallium	203-1	0.04	0.03	0.03	0.03	7.43	ppb
Thallium	205-1	0.03	0.03	0.03	0.03	8.28	ppb
Tin	118-1	-0.01	-0.02	-0.02	-0.02		ppb
Titanium	47-1	34.40	34.19	34.67	34.42	0.69	ppb
Uranium	238-1	0.04	0.04	0.04	0.04	4.75	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.48	0.46	0.46	0.47	2.98	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				106		%
Zinc	66-2	16.09	15.98	15.58	15.89	1.69	ppb
Zirconium	90-1	0.28	0.28	0.28	0.28	0.38	ppb
Zirconium	91-1	0.27	0.29	0.29	0.28	3.80	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50707.25	49946.46	50855.36	50503.02	0.97	ppb
Antimony	121-1	504.05	496.74	507.48	502.76	1.09	ppb
Arsenic	75-2	473.48	489.82	491.54	484.95	2.05	ppb
Barium	135-1	2514.04	2532.10	2518.90	2521.68	0.37	ppb
Barium	137-1	2531.39	2514.68	2518.68	2521.58	0.35	ppb
Beryllium	9-1	521.47	515.83	507.59	514.96	1.36	ppb
Bismuth	209-1				91		%
Bismuth	209-2				87		%
Bromine	81-1						cps
Cadmium	108-1	499.13	500.94	498.83	499.63	0.23	ppb
Cadmium	106-1	497.99	499.69	491.96	496.54	0.82	ppb
Cadmium	111-1	507.16	505.02	505.20	505.79	0.23	ppb
Calcium	43-1	254149.08	245479.17	252688.46	250772.24	1.85	ppb
Calcium	44-1	256202.87	246374.26	251490.73	251355.95	1.96	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	520.81	522.34	523.50	522.22	0.26	ppb
Cobalt	59-2	493.19	499.26	496.36	496.27	0.61	ppb
Copper	63-2	4916.83	4898.89	4922.22	4912.65	0.25	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				100		%
Holmium	165-2				97		%
Indium	115-1				96		%
Indium	115-2				83		%
Iron	54-2	125537.81	126186.26	128008.97	126577.68	1.01	ppb
Iron	56-2	127815.20	124959.55	127287.74	126687.49	1.20	ppb
Iron	57-2	123899.82	122987.67	125381.51	124089.67	0.97	ppb
Krypton	83-1						cps
Lead	206-1	2477.27	2534.89	2495.59	2502.58	1.18	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2486.53	2561.44	2484.57	2510.85	1.75	ppb
Lead	208-1	2496.90	2547.66	2492.29	2512.28	1.22	ppb
Lithium	6-1				88		%
Magnesium	24-2	263566.32	254949.13	262503.99	260339.81	1.80	ppb
Manganese	55-2	5037.81	5062.97	5043.13	5047.97	0.26	ppb
Molybdenum	94-1	4831.68	4878.04	4877.77	4862.50	0.55	ppb
Molybdenum	95-1	4794.71	4873.58	4834.68	4834.32	0.82	ppb
Molybdenum	96-1	4789.73	4899.43	4787.77	4825.64	1.32	ppb
Molybdenum	97-1	4795.31	4861.37	4809.56	4822.08	0.72	ppb
Molybdenum	98-1	4832.73	4845.29	4877.07	4851.70	0.47	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	460.96	462.26	461.91	461.71	0.15	ppb
Phosphorus	31-2	9754.44	9908.42	9773.41	9812.09	0.86	ppb
Potassium	39-2	126336.89	128894.20	125129.80	126786.97	1.52	ppb
Rhodium	103-1				91		%
Rhodium	103-2				89		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	462.65	477.48	472.31	470.81	1.60	ppb
Selenium	77-2	452.84	474.87	491.95	473.22	4.14	ppb
Selenium	78-2	465.70	458.21	465.66	463.19	0.93	ppb
Silicon	28-1	497.83	499.62	496.83	498.09	0.28	ppb
Silver	107-1	486.54	497.29	490.66	491.50	1.10	ppb
Silver	109-1	492.43	492.30	493.92	492.88	0.18	ppb
Sodium	23-2	263874.73	260960.03	268087.79	264307.52	1.36	ppb
Strontium	86-1	485.29	493.59	493.55	490.81	0.97	ppb
Strontium	88-1	485.68	494.45	492.37	490.84	0.93	ppb
Sulfur	34-1	10360.14	10051.22	9972.64	10128.00	2.02	ppb
Terbium	159-1				99		%
Terbium	159-2				96		%
Thallium	203-1	498.34	512.92	498.34	503.20	1.67	ppb
Thallium	205-1	502.70	518.89	502.49	508.03	1.85	ppb
Tin	118-1	502.55	497.85	503.80	501.40	0.63	ppb
Titanium	47-1	4982.13	4976.62	4934.72	4964.49	0.52	ppb
Uranium	238-1	499.86	512.00	513.85	508.57	1.49	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	516.66	523.48	530.68	523.61	1.34	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				102		%
Yttrium	89-2				96		%
Zinc	66-2	4958.24	4872.41	4957.32	4929.32	1.00	ppb
Zirconium	90-1	487.90	492.18	490.35	490.15	0.44	ppb
Zirconium	91-1	482.29	491.05	489.68	487.67	0.97	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	26.91	26.13	27.54	26.86	2.63	ppb
Antimony	121-1	0.13	0.12	0.10	0.11	12.67	ppb
Arsenic	75-2	0.01	0.00	0.01	0.01	59.03	ppb
Barium	135-1	0.05	0.03	0.03	0.04	21.03	ppb
Barium	137-1	0.05	0.04	0.03	0.04	27.78	ppb
Beryllium	9-1	0.05	0.04	0.03	0.04	27.48	ppb
Bismuth	209-1				110		%
Bismuth	209-2				102		%
Bromine	81-1						cps
Cadmium	108-1	0.03	0.05	0.03	0.04	31.33	ppb
Cadmium	106-1	-0.23	-0.89	-0.87	-0.67		ppb
Cadmium	111-1	0.00	-0.05	-0.06	-0.04		ppb
Calcium	43-1	2.72	-0.09	-0.16	0.82	199.54	ppb
Calcium	44-1	4.71	2.92	2.68	3.43	32.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.01	0.00	0.00		ppb
Cobalt	59-2	-0.01	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.05	0.07	0.06	0.06	19.25	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				107		%
Holmium	165-2				103		%
Indium	115-1				110		%
Indium	115-2				102		%
Iron	54-2	1.78	1.97	2.11	1.96	8.51	ppb
Iron	56-2	1.77	1.40	1.47	1.55	12.81	ppb
Iron	57-2	1.68	1.38	2.67	1.91	35.18	ppb
Krypton	83-1						cps
Lead	206-1	0.18	0.16	0.14	0.16	11.50	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.16	0.16	0.14	0.16	8.38	ppb
Lead	208-1	0.17	0.16	0.14	0.16	9.28	ppb
Lithium	6-1				102		%
Magnesium	24-2	1.57	1.36	1.25	1.39	11.63	ppb
Manganese	55-2	0.25	0.20	0.15	0.20	25.18	ppb
Molybdenum	94-1	0.27	0.22	0.22	0.24	13.81	ppb
Molybdenum	95-1	0.17	0.13	0.11	0.14	22.85	ppb
Molybdenum	96-1	0.17	0.15	0.13	0.15	12.99	ppb
Molybdenum	97-1	0.16	0.14	0.10	0.13	20.36	ppb
Molybdenum	98-1	0.16	0.13	0.10	0.13	23.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.03	-0.01	-0.02		ppb
Phosphorus	31-2	-19.09	-15.26	-20.56	-18.30		ppb
Potassium	39-2	12.88	10.64	13.61	12.37	12.51	ppb
Rhodium	103-1				109		%
Rhodium	103-2				106		%
Scandium	45-1				110		%
Scandium	45-2				104		%
Selenium	82-1	0.09	-0.12	-0.03	-0.02		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.44	0.82	-0.43	-0.02		ppb
Silicon	28-1	-0.36	-0.50	-0.50	-0.45		ppb
Silver	107-1	0.05	0.03	0.03	0.04	28.19	ppb
Silver	109-1	0.04	0.03	0.03	0.03	22.72	ppb
Sodium	23-2	28.24	28.45	28.05	28.25	0.70	ppb
Strontium	86-1	0.01	0.00	0.00	0.00	163.70	ppb
Strontium	88-1	0.01	0.01	0.01	0.01	13.49	ppb
Sulfur	34-1	-213.08	-323.89	-232.89	-256.62		ppb
Terbium	159-1				109		%
Terbium	159-2				102		%
Thallium	203-1	0.04	0.04	0.03	0.04	13.96	ppb
Thallium	205-1	0.04	0.04	0.04	0.04	3.84	ppb
Tin	118-1	0.04	0.02	0.03	0.03	32.00	ppb
Titanium	47-1	0.04	0.02	0.00	0.02	109.35	ppb
Uranium	238-1	0.01	0.00	0.00	0.00	63.61	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.01	0.01	25.31	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				103		%
Zinc	66-2	0.27	0.32	0.36	0.32	14.58	ppb
Zirconium	90-1	0.07	0.06	0.06	0.06	8.77	ppb
Zirconium	91-1	0.08	0.07	0.05	0.07	18.50	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1322.52	1312.33	1299.13	1311.33	0.89	ppb
Antimony	121-1	17.61	17.92	17.67	17.73	0.92	ppb
Arsenic	75-2	1.62	1.89	1.98	1.83	10.09	ppb
Barium	135-1	86.26	87.73	86.91	86.97	0.85	ppb
Barium	137-1	86.45	88.91	86.81	87.39	1.52	ppb
Beryllium	9-1	18.82	18.63	18.88	18.78	0.70	ppb
Bismuth	209-1				107		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	17.85	17.36	18.14	17.78	2.22	ppb
Cadmium	106-1	19.19	19.28	18.71	19.06	1.60	ppb
Cadmium	111-1	18.36	18.68	18.35	18.46	1.02	ppb
Calcium	43-1	5528.06	5548.02	5505.96	5527.35	0.38	ppb
Calcium	44-1	5632.98	5722.87	5529.19	5628.35	1.72	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.97	17.59	17.55	17.70	1.31	ppb
Cobalt	59-2	22.53	22.41	22.60	22.51	0.43	ppb
Copper	63-2	352.68	349.21	356.31	352.73	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				107		%
Holmium	165-2				105		%
Indium	115-1				109		%
Indium	115-2				104		%
Iron	54-2	10560.25	10204.75	10277.59	10347.53	1.81	ppb
Iron	56-2	10188.16	10160.21	10227.53	10191.97	0.33	ppb
Iron	57-2	9651.45	9756.84	9753.96	9720.75	0.62	ppb
Krypton	83-1						cps
Lead	206-1	99.52	106.19	102.39	102.70	3.26	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	100.81	100.18	102.25	101.08	1.05	ppb
Lead	208-1	100.88	105.74	102.03	102.88	2.47	ppb
Lithium	6-1				101		%
Magnesium	24-2	2487.77	2493.25	2448.40	2476.47	0.99	ppb
Manganese	55-2	280.28	278.73	282.18	280.40	0.62	ppb
Molybdenum	94-1	77.51	79.73	78.85	78.70	1.42	ppb
Molybdenum	95-1	57.93	58.81	59.03	58.59	1.00	ppb
Molybdenum	96-1	60.06	61.35	60.60	60.67	1.06	ppb
Molybdenum	97-1	58.67	59.48	59.01	59.05	0.68	ppb
Molybdenum	98-1	58.06	58.75	61.79	59.53	3.33	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.66	18.80	18.91	18.79	0.67	ppb
Phosphorus	31-2	1465.53	1466.46	1465.16	1465.72	0.05	ppb
Potassium	39-2	1400.59	1421.36	1418.98	1413.64	0.80	ppb
Rhodium	103-1				108		%
Rhodium	103-2				106		%
Scandium	45-1				112		%
Scandium	45-2				106		%
Selenium	82-1	17.19	18.15	17.16	17.50	3.22	ppb
Selenium	77-2	41.75	45.81	39.93	42.50	7.07	ppb
Selenium	78-2	18.54	25.68	20.92	21.71	16.74	ppb
Silicon	28-1	46.78	46.39	47.66	46.94	1.38	ppb
Silver	107-1	3.08	3.15	3.13	3.12	1.20	ppb
Silver	109-1	3.12	3.17	3.06	3.12	1.81	ppb
Sodium	23-2	2088.32	2025.32	2021.78	2045.14	1.83	ppb
Strontium	86-1	21.72	22.12	22.11	21.98	1.03	ppb
Strontium	88-1	23.47	23.68	23.39	23.51	0.64	ppb
Sulfur	34-1	-138.11	-186.86	-240.00	-188.32		ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	16.23	17.03	16.44	16.56	2.52	ppb
Thallium	205-1	16.53	17.38	16.56	16.82	2.87	ppb
Tin	118-1	15.87	16.03	16.04	15.98	0.59	ppb
Titanium	47-1	66.32	66.15	65.77	66.08	0.43	ppb
Uranium	238-1	15.87	16.54	16.19	16.20	2.07	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.23	19.50	19.33	19.35	0.71	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				114		%
Yttrium	89-2				107		%
Zinc	66-2	224.45	221.02	224.77	223.41	0.93	ppb
Zirconium	90-1	16.34	16.81	16.98	16.71	1.97	ppb
Zirconium	91-1	16.42	16.97	16.67	16.69	1.67	ppb

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1611.26	1616.91	1601.28	1609.82	0.49	ppb
Antimony	121-1	19.96	19.63	19.47	19.69	1.27	ppb
Arsenic	75-2	1.91	1.94	2.11	1.99	5.53	ppb
Barium	135-1	90.65	89.38	89.45	89.83	0.79	ppb
Barium	137-1	91.25	89.85	90.38	90.49	0.78	ppb
Beryllium	9-1	19.46	19.32	19.30	19.36	0.46	ppb
Bismuth	209-1				108		%
Bismuth	209-2				101		%
Bromine	81-1						cps
Cadmium	108-1	18.89	18.01	18.35	18.42	2.43	ppb
Cadmium	106-1	19.54	19.63	18.79	19.32	2.41	ppb
Cadmium	111-1	18.51	18.40	18.22	18.38	0.77	ppb
Calcium	43-1	5705.51	5876.24	5742.07	5774.61	1.56	ppb
Calcium	44-1	5943.13	5875.78	5951.56	5923.49	0.70	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.86	17.75	17.60	17.74	0.74	ppb
Cobalt	59-2	23.27	23.11	22.91	23.09	0.78	ppb
Copper	63-2	369.01	371.69	370.51	370.40	0.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				109		%
Holmium	165-2				104		%
Indium	115-1				111		%
Indium	115-2				103		%
Iron	54-2	11233.70	11328.58	11158.30	11240.19	0.76	ppb
Iron	56-2	11089.88	11094.70	11158.55	11114.38	0.34	ppb
Iron	57-2	10732.90	10638.26	10674.65	10681.93	0.45	ppb
Krypton	83-1						cps
Lead	206-1	102.30	101.68	101.10	101.69	0.59	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	97.57	100.43	100.25	99.42	1.61	ppb
Lead	208-1	102.11	101.73	101.61	101.82	0.26	ppb
Lithium	6-1				99		%
Magnesium	24-2	2574.35	2558.67	2557.29	2563.44	0.37	ppb
Manganese	55-2	283.08	284.48	283.59	283.72	0.25	ppb
Molybdenum	94-1	79.06	79.06	78.14	78.75	0.67	ppb
Molybdenum	95-1	58.90	58.17	57.99	58.35	0.83	ppb
Molybdenum	96-1	60.65	60.84	60.15	60.55	0.59	ppb
Molybdenum	97-1	60.14	59.22	58.33	59.23	1.53	ppb
Molybdenum	98-1	59.08	61.77	61.12	60.66	2.31	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	19.24	19.06	19.02	19.11	0.59	ppb
Phosphorus	31-2	1546.68	1474.48	1443.53	1488.23	3.56	ppb
Potassium	39-2	1691.30	1694.19	1694.66	1693.38	0.11	ppb
Rhodium	103-1				109		%
Rhodium	103-2				106		%
Scandium	45-1				112		%
Scandium	45-2				107		%
Selenium	82-1	18.50	18.35	17.68	18.18	2.40	ppb
Selenium	77-2	42.50	33.98	30.90	35.79	16.78	ppb
Selenium	78-2	21.35	18.97	19.57	19.96	6.22	ppb
Silicon	28-1	37.08	37.22	37.69	37.33	0.85	ppb
Silver	107-1	3.15	3.11	3.11	3.12	0.73	ppb
Silver	109-1	3.14	3.12	3.15	3.14	0.55	ppb
Sodium	23-2	2073.88	2096.35	2024.50	2064.91	1.78	ppb
Strontium	86-1	24.23	23.95	23.82	24.00	0.87	ppb
Strontium	88-1	25.68	25.33	25.09	25.37	1.17	ppb
Sulfur	34-1	-164.06	-89.27	-226.58	-159.97		ppb
Terbium	159-1				109		%
Terbium	159-2				105		%
Thallium	203-1	16.73	16.51	16.57	16.60	0.69	ppb
Thallium	205-1	17.14	16.86	16.79	16.93	1.09	ppb
Tin	118-1	16.14	16.00	16.21	16.12	0.67	ppb
Titanium	47-1	90.44	92.57	91.09	91.37	1.20	ppb
Uranium	238-1	16.24	16.25	16.15	16.21	0.33	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	19.79	19.41	19.88	19.69	1.24	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				115		%
Yttrium	89-2				107		%
Zinc	66-2	227.23	225.61	224.59	225.81	0.59	ppb
Zirconium	90-1	16.77	16.92	16.73	16.80	0.59	ppb
Zirconium	91-1	16.70	16.87	16.68	16.75	0.62	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	1555.05	1538.44	1586.52	1560.00	1.57	ppb
Antimony	121-1	21.27	21.44	21.24	21.32	0.52	ppb
Arsenic	75-2	2.01	1.87	2.00	1.96	4.12	ppb
Barium	135-1	88.49	89.75	88.68	88.97	0.76	ppb
Barium	137-1	88.92	90.19	89.52	89.54	0.71	ppb
Beryllium	9-1	18.75	19.53	18.73	19.00	2.40	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	17.90	18.45	18.12	18.16	1.51	ppb
Cadmium	106-1	18.34	19.28	19.66	19.10	3.56	ppb
Cadmium	111-1	17.85	18.33	18.26	18.15	1.42	ppb
Calcium	43-1	5694.95	5684.16	5737.38	5705.50	0.49	ppb
Calcium	44-1	5807.37	5853.36	5830.81	5830.52	0.39	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	17.65	17.37	17.61	17.54	0.88	ppb
Cobalt	59-2	22.44	22.93	22.49	22.62	1.19	ppb
Copper	63-2	357.76	356.26	370.81	361.61	2.21	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				109		%
Holmium	165-2				106		%
Indium	115-1				111		%
Indium	115-2				104		%
Iron	54-2	11038.79	11104.82	11031.08	11058.23	0.37	ppb
Iron	56-2	10790.21	11049.31	11100.69	10980.07	1.52	ppb
Iron	57-2	10353.28	10565.14	10654.96	10524.46	1.47	ppb
Krypton	83-1						cps
Lead	206-1	98.18	98.89	101.18	99.42	1.58	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	93.37	96.75	95.81	95.31	1.83	ppb
Lead	208-1	98.51	99.92	99.68	99.37	0.76	ppb
Lithium	6-1				100		%
Magnesium	24-2	2474.79	2498.24	2530.14	2501.06	1.11	ppb
Manganese	55-2	274.91	278.31	280.23	277.82	0.97	ppb
Molybdenum	94-1	79.45	78.80	78.80	79.02	0.47	ppb
Molybdenum	95-1	59.25	57.59	59.08	58.64	1.56	ppb
Molybdenum	96-1	60.90	59.97	61.75	60.87	1.46	ppb
Molybdenum	97-1	59.73	59.08	58.96	59.25	0.70	ppb
Molybdenum	98-1	58.37	58.15	58.54	58.35	0.34	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	18.21	18.84	19.00	18.68	2.24	ppb
Phosphorus	31-2	1415.59	1483.30	1419.52	1439.47	2.64	ppb
Potassium	39-2	1655.77	1694.98	1694.99	1681.92	1.35	ppb
Rhodium	103-1				109		%
Rhodium	103-2				106		%
Scandium	45-1				113		%
Scandium	45-2				107		%
Selenium	82-1	17.73	18.64	17.42	17.93	3.53	ppb
Selenium	77-2	33.74	37.54	45.01	38.76	14.79	ppb
Selenium	78-2	23.50	19.84	20.82	21.39	8.86	ppb
Silicon	28-1	36.86	36.56	36.60	36.67	0.45	ppb
Silver	107-1	3.04	3.12	3.10	3.09	1.31	ppb
Silver	109-1	3.05	3.14	3.16	3.12	1.84	ppb
Sodium	23-2	1946.41	2069.91	2043.34	2019.89	3.22	ppb
Strontium	86-1	24.27	23.74	24.19	24.07	1.19	ppb
Strontium	88-1	25.20	25.25	25.63	25.36	0.93	ppb
Sulfur	34-1	-189.20	-295.66	-235.05	-239.97		ppb
Terbium	159-1				109		%
Terbium	159-2				105		%
Thallium	203-1	16.26	16.58	16.53	16.46	1.04	ppb
Thallium	205-1	16.42	16.94	16.65	16.67	1.58	ppb
Tin	118-1	15.81	16.10	15.98	15.96	0.90	ppb
Titanium	47-1	88.87	89.28	90.68	89.61	1.06	ppb
Uranium	238-1	15.65	16.17	16.14	15.98	1.84	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	18.81	19.15	19.58	19.18	2.01	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				113		%
Yttrium	89-2				109		%
Zinc	66-2	220.98	220.24	223.42	221.54	0.75	ppb
Zirconium	90-1	16.72	16.83	16.96	16.84	0.73	ppb
Zirconium	91-1	16.74	16.48	16.92	16.71	1.32	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	0.00	-0.04	0.04	0.00		ppb
Antimony	121-1	0.01	0.01	0.01	0.01	4.59	ppb
Arsenic	75-2	0.00	-0.01	0.00	0.00		ppb
Barium	135-1	0.00	-0.01	-0.01	-0.01		ppb
Barium	137-1	-0.01	-0.01	0.00	-0.01		ppb
Beryllium	9-1	0.00	0.00	0.00	0.00	301.20	ppb
Bismuth	209-1				108		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.01	0.03	-0.01	0.01	211.91	ppb
Cadmium	106-1	-0.27	-1.19	-0.80	-0.75		ppb
Cadmium	111-1	-0.02	-0.09	-0.06	-0.06		ppb
Calcium	43-1	-3.10	-4.16	-3.75	-3.67		ppb
Calcium	44-1	-1.02	-1.18	-1.46	-1.22		ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	-0.01	0.00	0.00	-0.01		ppb
Cobalt	59-2	-0.01	-0.02	-0.02	-0.02		ppb
Copper	63-2	-0.03	-0.02	-0.01	-0.02		ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				104		%
Indium	115-1				111		%
Indium	115-2				104		%
Iron	54-2	0.83	0.37	0.10	0.43	85.17	ppb
Iron	56-2	0.01	-0.06	0.20	0.05	269.83	ppb
Iron	57-2	-0.29	0.79	0.73	0.41	148.22	ppb
Krypton	83-1						cps
Lead	206-1	0.06	0.05	0.05	0.05	6.37	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.06	0.05	0.05	0.05	8.66	ppb
Lead	208-1	0.05	0.05	0.05	0.05	4.93	ppb
Lithium	6-1				101		%
Magnesium	24-2	-2.11	-1.65	-1.85	-1.87		ppb
Manganese	55-2	-0.02	-0.04	0.03	-0.01		ppb
Molybdenum	94-1	0.05	0.05	0.05	0.05	6.99	ppb
Molybdenum	95-1	0.00	0.00	0.01	0.00	108.20	ppb
Molybdenum	96-1	0.00	0.01	0.00	0.01	31.87	ppb
Molybdenum	97-1	0.00	0.00	0.00	0.00	2993.97	ppb
Molybdenum	98-1	0.00	0.00	0.00	0.00	114.16	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.01	-0.01	-0.02		ppb
Phosphorus	31-2	-25.48	-29.84	-22.01	-25.78		ppb
Potassium	39-2	3.79	5.84	3.86	4.50	25.95	ppb
Rhodium	103-1				110		%
Rhodium	103-2				107		%
Scandium	45-1				112		%
Scandium	45-2				106		%
Selenium	82-1	-0.06	-0.12	0.09	-0.03		ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	0.02	-0.14	0.33	0.07	326.81	ppb
Silicon	28-1	-0.66	-0.43	-0.69	-0.59		ppb
Silver	107-1	0.02	0.01	0.01	0.01	12.65	ppb
Silver	109-1	0.01	0.01	0.01	0.01	16.50	ppb
Sodium	23-2	12.20	12.64	10.38	11.74	10.21	ppb
Strontium	86-1	0.00	-0.01	-0.01	-0.01		ppb
Strontium	88-1	0.00	0.00	0.00	0.00		ppb
Sulfur	34-1	-300.53	-278.04	-377.36	-318.64		ppb
Terbium	159-1				108		%
Terbium	159-2				103		%
Thallium	203-1	0.03	0.02	0.02	0.02	5.22	ppb
Thallium	205-1	0.02	0.02	0.02	0.02	1.88	ppb
Tin	118-1	-0.01	0.00	-0.01	-0.01		ppb
Titanium	47-1	-0.08	-0.09	-0.09	-0.09		ppb
Uranium	238-1	0.00	0.00	0.00	0.00		ppb

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On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.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				109		%
Yttrium	89-2				104		%
Zinc	66-2	-0.05	-0.05	-0.07	-0.06		ppb
Zirconium	90-1	0.03	0.02	0.02	0.02	9.07	ppb
Zirconium	91-1	0.03	0.03	0.02	0.03	21.32	ppb

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	9822.11	9828.26	9867.18	9839.18	0.25	ppb
Antimony	121-1	487.77	496.49	516.04	500.10	2.90	ppb
Arsenic	75-2	483.53	487.45	478.21	483.06	0.96	ppb
Barium	135-1	2394.02	2454.07	2578.21	2475.43	3.79	ppb
Barium	137-1	2431.29	2438.34	2558.81	2476.15	2.89	ppb
Beryllium	9-1	476.49	504.87	490.00	490.45	2.89	ppb
Bismuth	209-1				103		%
Bismuth	209-2				97		%
Bromine	81-1						cps
Cadmium	108-1	496.09	502.67	510.84	503.20	1.47	ppb
Cadmium	106-1	491.18	500.78	506.47	499.48	1.55	ppb
Cadmium	111-1	503.61	511.42	526.79	513.94	2.30	ppb
Calcium	43-1	48555.91	49675.59	48752.13	48994.54	1.22	ppb
Calcium	44-1	47911.97	49735.78	49222.39	48956.71	1.92	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	504.98	524.62	519.07	516.22	1.96	ppb
Cobalt	59-2	503.02	517.67	508.58	509.75	1.45	ppb
Copper	63-2	5095.96	5030.05	5072.49	5066.17	0.66	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				107		%
Holmium	165-2				102		%
Indium	115-1				106		%
Indium	115-2				98		%
Iron	54-2	25681.96	26036.25	26474.53	26064.25	1.52	ppb
Iron	56-2	25030.85	25599.40	25532.58	25387.61	1.22	ppb
Iron	57-2	25904.94	25814.45	26052.30	25923.90	0.46	ppb
Krypton	83-1						cps
Lead	206-1	2395.41	2374.72	2385.08	2385.07	0.43	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2360.38	2388.42	2419.24	2389.34	1.23	ppb
Lead	208-1	2371.99	2401.98	2405.06	2393.01	0.76	ppb
Lithium	6-1				98		%
Magnesium	24-2	52805.74	51196.74	53781.03	52594.51	2.48	ppb
Manganese	55-2	4941.94	5078.56	5016.65	5012.38	1.36	ppb
Molybdenum	94-1	4656.08	4838.63	4890.29	4795.00	2.57	ppb
Molybdenum	95-1	4613.32	4796.42	4900.94	4770.23	3.05	ppb
Molybdenum	96-1	4661.60	4796.69	4846.64	4768.31	2.01	ppb
Molybdenum	97-1	4701.98	4648.52	4830.71	4727.07	1.98	ppb
Molybdenum	98-1	4679.66	4740.76	4863.21	4761.21	1.96	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	472.79	476.75	482.66	477.40	1.04	ppb
Phosphorus	31-2	9669.04	9582.75	9924.42	9725.40	1.83	ppb
Potassium	39-2	25264.57	24702.50	25187.39	25051.49	1.22	ppb
Rhodium	103-1				102		%
Rhodium	103-2				100		%
Scandium	45-1				109		%
Scandium	45-2				104		%
Selenium	82-1	466.67	479.98	489.89	478.85	2.43	ppb
Selenium	77-2	468.35	484.39	453.30	468.68	3.32	ppb
Selenium	78-2	473.95	472.02	458.99	468.32	1.74	ppb
Silicon	28-1	461.20	481.10	475.19	472.50	2.16	ppb
Silver	107-1	499.67	511.73	524.21	511.87	2.40	ppb
Silver	109-1	500.68	511.92	527.77	513.46	2.65	ppb
Sodium	23-2	53151.91	51747.86	54210.39	53036.72	2.33	ppb
Strontium	86-1	479.36	487.70	488.74	485.27	1.06	ppb
Strontium	88-1	474.89	479.23	482.17	478.76	0.76	ppb
Sulfur	34-1	9360.33	9829.85	9577.43	9589.20	2.45	ppb
Terbium	159-1				107		%
Terbium	159-2				101		%
Thallium	203-1	476.11	473.66	476.25	475.34	0.31	ppb
Thallium	205-1	479.87	484.77	477.96	480.87	0.73	ppb
Tin	118-1	489.10	486.11	503.54	492.92	1.89	ppb
Titanium	47-1	4708.61	4860.38	4783.85	4784.28	1.59	ppb
Uranium	238-1	452.51	472.12	471.31	465.31	2.39	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	511.99	507.07	516.68	511.91	0.94	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				108		%
Yttrium	89-2				102		%
Zinc	66-2	5066.35	5098.58	5096.20	5087.04	0.35	ppb
Zirconium	90-1	465.25	484.74	491.13	480.37	2.81	ppb
Zirconium	91-1	466.87	479.12	490.80	478.93	2.50	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	50878.69	51329.69	50409.00	50872.46	0.90	ppb
Antimony	121-1	494.25	499.48	504.10	499.28	0.99	ppb
Arsenic	75-2	504.47	494.61	501.69	500.26	1.02	ppb
Barium	135-1	2505.21	2514.80	2485.48	2501.83	0.60	ppb
Barium	137-1	2509.08	2531.87	2457.32	2499.42	1.53	ppb
Beryllium	9-1	506.88	515.24	505.51	509.21	1.03	ppb
Bismuth	209-1				93		%
Bismuth	209-2				85		%
Bromine	81-1						cps
Cadmium	108-1	487.90	491.65	490.19	489.91	0.39	ppb
Cadmium	106-1	494.61	493.14	490.62	492.79	0.41	ppb
Cadmium	111-1	498.75	495.78	485.00	493.18	1.47	ppb
Calcium	43-1	246850.30	247612.53	248880.16	247781.00	0.41	ppb
Calcium	44-1	249170.31	250280.18	250516.86	249989.11	0.29	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	521.77	527.73	531.58	527.03	0.94	ppb
Cobalt	59-2	500.05	506.49	496.00	500.85	1.06	ppb
Copper	63-2	4911.56	4814.60	4835.59	4853.92	1.05	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				101		%
Holmium	165-2				96		%
Indium	115-1				97		%
Indium	115-2				83		%
Iron	54-2	126760.25	126889.76	126835.74	126828.59	0.05	ppb
Iron	56-2	125791.42	127463.76	126154.49	126469.89	0.70	ppb
Iron	57-2	125343.25	128640.00	126856.41	126946.55	1.30	ppb
Krypton	83-1						cps
Lead	206-1	2496.82	2537.60	2521.81	2518.74	0.82	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	2483.63	2521.55	2482.32	2495.83	0.89	ppb
Lead	208-1	2494.15	2521.70	2495.79	2503.88	0.62	ppb
Lithium	6-1				89		%
Magnesium	24-2	259331.22	265636.82	255577.36	260181.80	1.95	ppb
Manganese	55-2	5055.58	5099.57	5120.83	5091.99	0.65	ppb
Molybdenum	94-1	4908.65	4880.90	4884.60	4891.38	0.31	ppb
Molybdenum	95-1	4877.59	4843.92	4845.40	4855.64	0.39	ppb
Molybdenum	96-1	4818.00	4853.75	4923.52	4865.09	1.10	ppb
Molybdenum	97-1	4877.34	4885.50	4908.60	4890.48	0.33	ppb
Molybdenum	98-1	4960.28	4851.34	4854.81	4888.81	1.27	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	462.00	464.41	462.85	463.09	0.26	ppb
Phosphorus	31-2	9992.37	10186.23	9874.34	10017.65	1.57	ppb
Potassium	39-2	125912.83	126135.33	127683.76	126577.31	0.76	ppb
Rhodium	103-1				92		%
Rhodium	103-2				88		%
Scandium	45-1				101		%
Scandium	45-2				97		%
Selenium	82-1	474.36	471.93	476.61	474.30	0.49	ppb
Selenium	77-2	489.70	466.85	506.91	487.82	4.12	ppb
Selenium	78-2	484.05	479.56	483.04	482.22	0.49	ppb
Silicon	28-1	498.22	494.70	497.69	496.87	0.38	ppb
Silver	107-1	478.03	483.34	487.75	483.04	1.01	ppb
Silver	109-1	487.81	477.61	483.79	483.07	1.06	ppb
Sodium	23-2	264641.81	267368.07	259879.00	263962.96	1.44	ppb
Strontium	86-1	501.62	493.25	496.27	497.05	0.85	ppb
Strontium	88-1	488.20	491.26	506.49	495.32	1.98	ppb
Sulfur	34-1	9803.68	9835.34	10065.22	9901.41	1.44	ppb
Terbium	159-1				101		%
Terbium	159-2				96		%
Thallium	203-1	493.99	504.76	497.70	498.81	1.10	ppb
Thallium	205-1	498.48	509.18	513.66	507.11	1.54	ppb
Tin	118-1	488.47	499.21	499.19	495.62	1.25	ppb
Titanium	47-1	4878.68	4987.24	4962.73	4942.88	1.15	ppb
Uranium	238-1	499.53	510.43	508.53	506.17	1.15	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	524.52	530.88	529.66	528.35	0.64	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				101		%
Yttrium	89-2				94		%
Zinc	66-2	4915.57	4934.91	4894.96	4915.15	0.41	ppb
Zirconium	90-1	491.69	491.67	488.62	490.66	0.36	ppb
Zirconium	91-1	488.90	487.90	495.00	490.60	0.78	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Aluminium	27-2	2.03	3.29	1.84	2.39	32.89	ppb
Antimony	121-1	0.14	0.12	0.10	0.12	14.68	ppb
Arsenic	75-2	0.04	0.02	0.00	0.02	91.46	ppb
Barium	135-1	0.05	0.04	0.03	0.04	28.56	ppb
Barium	137-1	0.04	0.04	0.03	0.04	13.43	ppb
Beryllium	9-1	0.05	0.05	0.04	0.05	13.20	ppb
Bismuth	209-1				110		%
Bismuth	209-2				103		%
Bromine	81-1						cps
Cadmium	108-1	0.05	0.03	0.04	0.04	26.88	ppb
Cadmium	106-1	-0.32	-0.24	-0.45	-0.34		ppb
Cadmium	111-1	0.00	0.01	-0.02	0.00		ppb
Calcium	43-1	-1.12	-3.14	-2.71	-2.32		ppb
Calcium	44-1	1.75	0.03	-0.03	0.58	173.40	ppb
Carbon	12-1						cps
Carbon	12-2						cps
Chlorine	35-1						cps
Chlorine	35-2						cps
Chromium	52-2	0.00	-0.03	-0.03	-0.02		ppb
Cobalt	59-2	0.00	-0.01	-0.01	-0.01		ppb
Copper	63-2	0.02	0.05	0.01	0.03	86.36	ppb
Dysprosium	156-1						cps
Dysprosium	156-2						cps
Erbium	164-1						cps
Erbium	164-2						cps
Gadolinium	160-1						cps
Gadolinium	160-2						cps
Holmium	165-1				108		%
Holmium	165-2				102		%
Indium	115-1				110		%
Indium	115-2				103		%
Iron	54-2	1.32	1.31	1.03	1.22	13.38	ppb
Iron	56-2	0.88	0.77	0.94	0.86	10.27	ppb
Iron	57-2	1.13	1.90	0.59	1.21	54.81	ppb
Krypton	83-1						cps
Lead	206-1	0.17	0.15	0.14	0.16	10.63	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Lead	207-1	0.17	0.16	0.14	0.16	8.33	ppb
Lead	208-1	0.17	0.15	0.14	0.16	8.78	ppb
Lithium	6-1				101		%
Magnesium	24-2	0.76	1.05	0.73	0.85	21.03	ppb
Manganese	55-2	-0.12	-0.07	-0.06	-0.09		ppb
Molybdenum	94-1	0.22	0.23	0.18	0.21	11.45	ppb
Molybdenum	95-1	0.15	0.13	0.12	0.13	9.90	ppb
Molybdenum	96-1	0.17	0.13	0.14	0.15	13.42	ppb
Molybdenum	97-1	0.15	0.13	0.12	0.13	14.41	ppb
Molybdenum	98-1	0.14	0.13	0.10	0.13	16.84	ppb
Neodymium	150-1						cps
Neodymium	150-2						cps
Nickel	60-2	-0.02	-0.02	-0.04	-0.03		ppb
Phosphorus	31-2	-27.82	-19.55	-25.89	-24.42		ppb
Potassium	39-2	13.43	16.27	15.96	15.22	10.25	ppb
Rhodium	103-1				109		%
Rhodium	103-2				105		%
Scandium	45-1				109		%
Scandium	45-2				103		%
Selenium	82-1	-0.02	-0.02	0.05	0.01	594.73	ppb
Selenium	77-2	0.00	0.00	0.00	0.00	N/A	ppb
Selenium	78-2	-0.27	-0.27	-0.44	-0.33		ppb
Silicon	28-1	0.03	-0.27	-0.18	-0.14		ppb
Silver	107-1	0.04	0.03	0.03	0.04	10.41	ppb
Silver	109-1	0.04	0.03	0.03	0.04	12.96	ppb
Sodium	23-2	37.41	37.42	38.66	37.83	1.90	ppb
Strontium	86-1	0.00	0.00	0.00	0.00	56.54	ppb
Strontium	88-1	0.01	0.00	0.00	0.00	25.95	ppb
Sulfur	34-1	-228.76	-402.60	-279.26	-303.54		ppb
Terbium	159-1				108		%
Terbium	159-2				104		%
Thallium	203-1	0.04	0.03	0.04	0.04	6.62	ppb
Thallium	205-1	0.04	0.03	0.03	0.04	6.33	ppb
Tin	118-1	-0.04	-0.04	-0.03	-0.04		ppb
Titanium	47-1	0.01	-0.01	-0.02	-0.01		ppb
Uranium	238-1	0.01	0.00	0.00	0.00	56.76	ppb

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	ConRep1	ConRep2	ConRep3	Avg. Conc.	ConcRSD	Units
Vanadium	51-2	0.01	0.01	0.00	0.01	53.75	ppb
Ytterbium	172-1						cps
Ytterbium	172-2						cps
Ytterbium	176-1						cps
Ytterbium	176-2						cps
Yttrium	89-1				109		%
Yttrium	89-2				102		%
Zinc	66-2	-0.07	0.12	0.11	0.05	213.72	ppb
Zirconium	90-1	0.06	0.05	0.05	0.05	9.43	ppb
Zirconium	91-1	0.06	0.06	0.06	0.06	0.06	ppb

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	127	130	103	120	12.11	cps
Antimony	121-1	53	70	70	64	14.93	cps
Arsenic	75-2	7	7	3	6	34.70	cps
Barium	135-1	163	153	217	178	19.15	cps
Barium	137-1	297	313	253	288	10.76	cps
Beryllium	9-1	172	142	155	157	9.62	cps
Bismuth	209-1	11450562	11500850	11664966	11538793	0.97	cps
Bismuth	209-2	5269524	5301949	5264951	5278808	0.38	cps
Bromine	81-1	27166	27687	27808	27554	1.24	cps
Cadmium	108-1	37	53	13	34	58.34	cps
Cadmium	106-1	9807	9844	10040	9897	1.27	cps
Cadmium	111-1	6872	6897	7069	6946	1.54	cps
Calcium	43-1	1013	1127	930	1023	9.65	cps
Calcium	44-1	23370	22872	23263	23168	1.13	cps
Carbon	12-1	3558010	3538287	3386627	3494308	2.68	cps
Carbon	12-2	23202	23248	23172	23207	0.17	cps
Chlorine	35-1	93600	93093	93301	93331	0.27	cps
Chlorine	35-2	287	287	347	307	11.30	cps
Chromium	52-2	1063	1067	1007	1046	3.23	cps
Cobalt	59-2	210	253	273	246	13.19	cps
Copper	63-2	1250	1340	1403	1331	5.79	cps
Dysprosium	156-1	117	193	117	142	31.12	cps
Dysprosium	156-2	3	10	23	12	83.33	cps
Erbium	164-1	113	87	143	114	24.77	cps
Erbium	164-2	53	53	63	57	10.19	cps
Gadolinium	160-1	160	110	197	156	27.97	cps
Gadolinium	160-2	30	33	30	31	6.18	cps
Holmium	165-1	18937271	19345034	18955783	19079363	1.21	cps
Holmium	165-2	7189519	7168998	7136598	7165039	0.37	cps
Indium	115-1	15948858	16403898	16321200	16224652	1.49	cps
Indium	115-2	1733119	1754808	1729413	1739113	0.79	cps
Iron	54-2	590	707	687	661	9.44	cps
Iron	56-2	8232	8980	9353	8855	6.44	cps
Iron	57-2	160	210	207	192	14.54	cps
Krypton	83-1	287	293	243	274	9.89	cps
Lead	206-1	530	583	500	538	7.85	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	460	397	477	444	9.50	cps
Lead	208-1	2113	2017	2027	2052	2.59	cps
Lithium	6-1	5477386	5589713	5597089	5554730	1.21	cps
Magnesium	24-2	630	950	983	854	22.83	cps
Manganese	55-2	1953	2017	1937	1969	2.14	cps
Molybdenum	94-1	517	513	637	556	12.65	cps
Molybdenum	95-1	197	203	187	196	4.29	cps
Molybdenum	96-1	357	373	357	362	2.66	cps
Molybdenum	97-1	143	140	127	137	6.45	cps
Molybdenum	98-1	273	383	283	313	19.41	cps
Neodymium	150-1	20	17	20	19	10.18	cps
Neodymium	150-2	3	0	0	1	173.21	cps
Nickel	60-2	227	340	300	289	19.90	cps
Phosphorus	31-2	100	147	90	112	26.95	cps
Potassium	39-2	10838	10727	10654	10740	0.86	cps
Rhodium	103-1	15111282	15417223	15310081	15279528	1.02	cps
Rhodium	103-2	6138164	6116828	6100725	6118572	0.31	cps
Scandium	45-1	10269128	10251290	10140640	10220352	0.68	cps
Scandium	45-2	182994	181277	183539	182603	0.65	cps
Selenium	82-1	-13	43	33	21	143.25	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	27	16	61.87	cps
Silicon	28-1	459483	466118	460312	461971	0.78	cps
Silver	107-1	223	170	157	183	19.24	cps
Silver	109-1	67	97	63	76	24.30	cps
Sodium	23-2	20504	19617	19967	20029	2.23	cps
Strontium	86-1	460	453	490	468	4.17	cps
Strontium	88-1	583	567	517	556	6.25	cps
Sulfur	34-1	506286	506805	509922	507671	0.39	cps
Terbium	159-1	19916919	19984281	19688631	19863277	0.78	cps
Terbium	159-2	6996499	7044420	6897300	6979406	1.08	cps
Thallium	203-1	173	193	197	188	6.72	cps
Thallium	205-1	483	540	427	483	11.72	cps
Tin	118-1	4157	3947	4047	4051	2.59	cps
Titanium	47-1	577	507	533	539	6.56	cps
Uranium	238-1	360	317	363	347	7.51	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S0	Instrumnet Name :	P8
Client Sample ID :	S0	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 14:58:49	DataFile Name :	004CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	20	20	19	10.18	cps
Ytterbium	172-1	120	120	137	126	7.67	cps
Ytterbium	172-2	67	83	60	70	17.17	cps
Ytterbium	176-1	2850	2600	2370	2607	9.21	cps
Ytterbium	176-2	940	1067	880	962	9.90	cps
Yttrium	89-1	29689810	29341936	29757010	29596252	0.75	cps
Yttrium	89-2	2184935	2145181	2164710	2164942	0.92	cps
Zinc	66-2	380	393	433	402	6.90	cps
Zirconium	90-1	1327	1520	1283	1377	9.16	cps
Zirconium	91-1	257	240	243	247	3.58	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1653	1703	1580	1646	3.77	cps
Antimony	121-1	52520	52199	52296	52338	0.31	cps
Arsenic	75-2	520	617	457	531	15.17	cps
Barium	135-1	61683	62195	62788	62222	0.89	cps
Barium	137-1	108490	110029	110328	109616	0.90	cps
Beryllium	9-1	6644	6867	6991	6834	2.57	cps
Bismuth	209-1	11554226	11758663	11807193	11706694	1.15	cps
Bismuth	209-2	5373442	5352726	5263571	5329913	1.10	cps
Bromine	81-1	27160	27096	26719	26992	0.88	cps
Cadmium	108-1	633	517	573	574	10.16	cps
Cadmium	106-1	11181	11061	11211	11151	0.71	cps
Cadmium	111-1	14415	14073	14208	14232	1.21	cps
Calcium	43-1	42035	42489	42489	42338	0.62	cps
Calcium	44-1	683607	690351	682815	685591	0.60	cps
Carbon	12-1	3585134	3557068	3534041	3558748	0.72	cps
Carbon	12-2	23422	24460	23916	23933	2.17	cps
Chlorine	35-1	98928	98425	97200	98184	0.91	cps
Chlorine	35-2	363	367	283	338	13.97	cps
Chromium	52-2	11278	11084	10828	11063	2.04	cps
Cobalt	59-2	10264	10541	10407	10404	1.33	cps
Copper	63-2	17644	17307	17648	17533	1.12	cps
Dysprosium	156-1	220	213	140	191	23.23	cps
Dysprosium	156-2	13	10	23	16	44.60	cps
Erbium	164-1	150	153	160	154	3.30	cps
Erbium	164-2	50	53	50	51	3.76	cps
Gadolinium	160-1	150	157	147	151	3.37	cps
Gadolinium	160-2	23	57	43	41	40.82	cps
Holmium	165-1	19338349	19406083	19352160	19365531	0.18	cps
Holmium	165-2	7306925	7227442	7191311	7241893	0.82	cps
Indium	115-1	16713897	16523774	16583932	16607201	0.59	cps
Indium	115-2	1761394	1760589	1735307	1752430	0.85	cps
Iron	54-2	11491	11301	11355	11382	0.86	cps
Iron	56-2	204795	200645	202040	202493	1.04	cps
Iron	57-2	5178	5184	4944	5102	2.68	cps
Krypton	83-1	290	263	283	279	4.98	cps
Lead	206-1	19067	18864	18901	18944	0.57	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16364	16247	16544	16385	0.91	cps
Lead	208-1	75379	75116	75894	75463	0.52	cps
Lithium	6-1	5535000	5620690	5677124	5610938	1.28	cps
Magnesium	24-2	150448	148879	149818	149715	0.53	cps
Manganese	55-2	4164	4097	4257	4173	1.93	cps
Molybdenum	94-1	55216	55276	55025	55172	0.24	cps
Molybdenum	95-1	66170	65778	67071	66339	1.00	cps
Molybdenum	96-1	72917	74197	74233	73782	1.02	cps
Molybdenum	97-1	41194	41686	40933	41271	0.93	cps
Molybdenum	98-1	105773	107250	106316	106446	0.70	cps
Neodymium	150-1	27	17	43	29	46.62	cps
Neodymium	150-2	0	3	0	1	173.21	cps
Nickel	60-2	3167	3244	3150	3187	1.56	cps
Phosphorus	31-2	200	223	207	210	5.72	cps
Potassium	39-2	99423	99675	101252	100116	0.99	cps
Rhodium	103-1	15568681	15707626	15801005	15692438	0.74	cps
Rhodium	103-2	6265934	6163753	6057633	6162440	1.69	cps
Scandium	45-1	10289576	10255697	10256174	10267149	0.19	cps
Scandium	45-2	186065	181831	184036	183977	1.15	cps
Selenium	82-1	2144	2144	2020	2102	3.39	cps
Selenium	77-2	30	57	47	44	30.31	cps
Selenium	78-2	100	127	117	114	11.77	cps
Silicon	28-1	585787	559322	561571	568894	2.58	cps
Silver	107-1	32542	33230	34403	33391	2.82	cps
Silver	109-1	31008	32582	31910	31833	2.48	cps
Sodium	23-2	313836	306941	315370	312049	1.44	cps
Strontium	86-1	8836	8769	8850	8818	0.49	cps
Strontium	88-1	75385	74343	75824	75184	1.01	cps
Sulfur	34-1	520589	521250	521460	521099	0.09	cps
Terbium	159-1	20542072	19861778	20213766	20205872	1.68	cps
Terbium	159-2	7007904	7031773	7097249	7045642	0.66	cps
Thallium	203-1	21972	22603	23869	22815	4.23	cps
Thallium	205-1	53717	54584	55357	54553	1.50	cps
Tin	118-1	110666	109299	110706	110223	0.73	cps
Titanium	47-1	19570	19200	19854	19541	1.68	cps
Uranium	238-1	70082	70655	71218	70652	0.80	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S2	Instrumnet Name :	P8
Client Sample ID :	S2	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:05:31	DataFile Name :	006CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	19984	19323	19500	19602	1.75	cps
Ytterbium	172-1	107	133	103	114	14.37	cps
Ytterbium	172-2	50	77	50	59	26.15	cps
Ytterbium	176-1	2777	2860	2707	2781	2.76	cps
Ytterbium	176-2	843	937	880	887	5.30	cps
Yttrium	89-1	29852684	29812405	29909720	29858269	0.16	cps
Yttrium	89-2	2187175	2163413	2123860	2158149	1.48	cps
Zinc	66-2	4521	4561	4504	4529	0.64	cps
Zirconium	90-1	46822	47815	46608	47081	1.37	cps
Zirconium	91-1	9937	10471	10611	10339	3.44	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	76456	73655	73930	74681	2.07	cps
Antimony	121-1	1186315	1198436	1204351	1196367	0.77	cps
Arsenic	75-2	23049	23443	23062	23185	0.96	cps
Barium	135-1	1383900	1402816	1416877	1401197	1.18	cps
Barium	137-1	2532618	2554022	2607204	2564615	1.50	cps
Beryllium	9-1	292359	296792	297300	295484	0.92	cps
Bismuth	209-1	11637291	11718460	11855174	11736975	0.94	cps
Bismuth	209-2	5225923	5194857	5167045	5195942	0.57	cps
Bromine	81-1	28486	26872	27206	27522	3.09	cps
Cadmium	108-1	24135	23630	23978	23914	1.08	cps
Cadmium	106-1	44562	44458	44047	44355	0.61	cps
Cadmium	111-1	305204	309657	311556	308806	1.06	cps
Calcium	43-1	368629	368213	369461	368768	0.17	cps
Calcium	44-1	5969668	5909049	5865581	5914766	0.88	cps
Carbon	12-1	3705804	3676202	3636945	3672984	0.94	cps
Carbon	12-2	24140	24801	23576	24172	2.54	cps
Chlorine	35-1	101438	102234	101372	101681	0.47	cps
Chlorine	35-2	313	347	330	330	5.05	cps
Chromium	52-2	226725	223919	225419	225355	0.62	cps
Cobalt	59-2	438729	433708	432529	434989	0.76	cps
Copper	63-2	3618810	3579524	3557735	3585357	0.86	cps
Dysprosium	156-1	163	210	270	214	24.94	cps
Dysprosium	156-2	17	7	20	14	48.02	cps
Erbium	164-1	140	187	163	163	14.29	cps
Erbium	164-2	77	53	60	63	18.98	cps
Gadolinium	160-1	137	167	173	159	12.29	cps
Gadolinium	160-2	60	50	40	50	20.00	cps
Holmium	165-1	19651160	19273829	19413007	19445999	0.98	cps
Holmium	165-2	7192419	7089791	7042153	7108121	1.08	cps
Indium	115-1	16335747	16289198	16564496	16396480	0.90	cps
Indium	115-2	1749220	1702123	1681948	1711097	2.02	cps
Iron	54-2	473000	469254	466640	469632	0.68	cps
Iron	56-2	8646614	8609969	8607421	8621335	0.25	cps
Iron	57-2	217819	218763	215941	217508	0.66	cps
Krypton	83-1	297	290	377	321	15.02	cps
Lead	206-1	4361980	4480941	4482829	4441916	1.56	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3806785	3807758	3893384	3835976	1.30	cps
Lead	208-1	17410647	17542892	17703939	17552493	0.84	cps
Lithium	6-1	5628578	5587230	5686327	5634045	0.88	cps
Magnesium	24-2	1323761	1312035	1357915	1331237	1.79	cps
Manganese	55-2	943542	941157	949336	944679	0.45	cps
Molybdenum	94-1	4227318	4259669	4196827	4227938	0.74	cps
Molybdenum	95-1	6040132	6091874	6091710	6074572	0.49	cps
Molybdenum	96-1	6588577	6736540	6695959	6673692	1.15	cps
Molybdenum	97-1	3715659	3810896	3835534	3787363	1.67	cps
Molybdenum	98-1	9727276	9766746	9961853	9818625	1.28	cps
Neodymium	150-1	123	143	143	137	8.45	cps
Neodymium	150-2	13	10	17	13	25.01	cps
Nickel	60-2	122919	121043	120216	121392	1.14	cps
Phosphorus	31-2	3574	3761	3547	3627	3.21	cps
Potassium	39-2	418054	416462	416891	417136	0.20	cps
Rhodium	103-1	15226627	15385019	15598886	15403511	1.21	cps
Rhodium	103-2	6058088	5908509	5837728	5934775	1.90	cps
Scandium	45-1	10403482	10222097	10246574	10290718	0.96	cps
Scandium	45-2	183266	181052	180640	181653	0.78	cps
Selenium	82-1	18055	18126	18086	18089	0.19	cps
Selenium	77-2	300	333	310	314	5.44	cps
Selenium	78-2	923	1083	1077	1028	8.81	cps
Silicon	28-1	6127941	6223801	6075975	6142572	1.22	cps
Silver	107-1	1500785	1526250	1519216	1515417	0.87	cps
Silver	109-1	1435439	1454524	1453318	1447760	0.74	cps
Sodium	23-2	2613721	2577438	2588180	2593113	0.72	cps
Strontium	86-1	375639	377417	381459	378172	0.79	cps
Strontium	88-1	3391796	3389376	3384537	3388569	0.11	cps
Sulfur	34-1	637392	643572	640986	640650	0.48	cps
Terbium	159-1	19896647	20047726	19961633	19968669	0.38	cps
Terbium	159-2	7043142	6963396	6899380	6968640	1.03	cps
Thallium	203-1	1020030	1035118	1039193	1031447	0.98	cps
Thallium	205-1	2512013	2567445	2576183	2551880	1.36	cps
Tin	118-1	954219	969638	964320	962726	0.81	cps
Titanium	47-1	1670833	1674373	1660181	1668463	0.44	cps
Uranium	238-1	3268602	3301900	3325225	3298575	0.86	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S3	Instrumnet Name :	P8
Client Sample ID :	S3	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:08:50	DataFile Name :	007CALB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	171631	167575	168445	169217	1.26	cps
Ytterbium	172-1	183	140	130	151	18.76	cps
Ytterbium	172-2	47	67	87	67	30.00	cps
Ytterbium	176-1	7509	7676	7686	7623	1.30	cps
Ytterbium	176-2	2447	2797	2590	2611	6.74	cps
Yttrium	89-1	29514695	29534136	29159686	29402839	0.72	cps
Yttrium	89-2	2108571	2049201	2075287	2077686	1.43	cps
Zinc	66-2	382771	380769	380060	381200	0.37	cps
Zirconium	90-1	2096515	2118723	2069772	2095003	1.17	cps
Zirconium	91-1	449551	454464	455440	453152	0.70	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	179314	178441	176193	177983	0.90	cps
Antimony	121-1	3269501	3374044	3342412	3328652	1.61	cps
Arsenic	75-2	54421	54773	54853	54682	0.42	cps
Barium	135-1	3418119	3511464	3479268	3469617	1.37	cps
Barium	137-1	5931894	6027156	5888074	5949041	1.20	cps
Beryllium	9-1	681982	693117	694957	690018	1.02	cps
Bismuth	209-1	11397772	11374397	11344864	11372344	0.23	cps
Bismuth	209-2	5136728	5055774	5073297	5088600	0.84	cps
Bromine	81-1	26736	27654	26849	27080	1.85	cps
Cadmium	108-1	55437	56692	56780	56303	1.33	cps
Cadmium	106-1	88404	90340	91178	89974	1.58	cps
Cadmium	111-1	707610	716322	727189	717041	1.37	cps
Calcium	43-1	858987	870105	871027	866707	0.77	cps
Calcium	44-1	13871042	14064466	14197805	14044438	1.17	cps
Carbon	12-1	3694332	3647245	3593897	3645158	1.38	cps
Carbon	12-2	24684	23833	23702	24073	2.21	cps
Chlorine	35-1	114169	117371	117408	116316	1.60	cps
Chlorine	35-2	430	353	387	390	9.86	cps
Chromium	52-2	532922	536262	531088	533424	0.49	cps
Cobalt	59-2	1015318	1029924	1019894	1021712	0.73	cps
Copper	63-2	8312873	8264447	8268878	8282066	0.32	cps
Dysprosium	156-1	503	437	460	467	7.25	cps
Dysprosium	156-2	90	73	107	90	18.52	cps
Erbium	164-1	340	323	327	330	2.67	cps
Erbium	164-2	97	173	133	134	28.52	cps
Gadolinium	160-1	327	390	327	348	10.51	cps
Gadolinium	160-2	137	100	117	118	15.59	cps
Holmium	165-1	18947096	19065448	18920135	18977560	0.41	cps
Holmium	165-2	6975138	7035965	7109445	7040183	0.96	cps
Indium	115-1	15693423	15858146	15970370	15840646	0.88	cps
Indium	115-2	1655676	1647779	1667573	1657009	0.60	cps
Iron	54-2	1121338	1126401	1115959	1121232	0.47	cps
Iron	56-2	20631556	20796151	20735116	20720941	0.40	cps
Iron	57-2	512841	510783	512314	511979	0.21	cps
Krypton	83-1	280	300	323	301	7.20	cps
Lead	206-1	10658951	10657456	10837048	10717818	0.96	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	9241635	9187929	9247548	9225704	0.36	cps
Lead	208-1	42495622	42606560	42613491	42571891	0.16	cps
Lithium	6-1	5437698	5464699	5522709	5475035	0.79	cps
Magnesium	24-2	3105855	3124194	3132427	3120825	0.44	cps
Manganese	55-2	2317773	2298309	2268670	2294917	1.08	cps
Molybdenum	94-1	9892939	9969772	10119589	9994100	1.15	cps
Molybdenum	95-1	14473376	14326182	14528896	14442818	0.73	cps
Molybdenum	96-1	15652078	15660236	15702972	15671762	0.17	cps
Molybdenum	97-1	8766923	8863996	8814103	8815007	0.55	cps
Molybdenum	98-1	22898466	23499360	23459296	23285708	1.44	cps
Neodymium	150-1	653	643	567	621	7.63	cps
Neodymium	150-2	80	77	87	81	6.28	cps
Nickel	60-2	290202	295832	293666	293234	0.97	cps
Phosphorus	31-2	9006	9090	8526	8874	3.43	cps
Potassium	39-2	991222	990892	984432	988849	0.39	cps
Rhodium	103-1	14848962	14869139	14733218	14817107	0.50	cps
Rhodium	103-2	5803790	5832600	5885651	5840680	0.71	cps
Scandium	45-1	9983816	9967943	9897068	9949609	0.46	cps
Scandium	45-2	179112	176408	176641	177387	0.84	cps
Selenium	82-1	42572	42592	42736	42633	0.21	cps
Selenium	77-2	753	727	740	740	1.80	cps
Selenium	78-2	2310	2430	2354	2365	2.57	cps
Silicon	28-1	13916814	14089706	13658264	13888261	1.56	cps
Silver	107-1	3704997	3683448	3821172	3736539	1.98	cps
Silver	109-1	3528934	3575895	3593029	3565953	0.93	cps
Sodium	23-2	6073664	6129876	6094981	6099507	0.47	cps
Strontium	86-1	885477	898243	902936	895552	1.01	cps
Strontium	88-1	8008381	8150893	8256426	8138566	1.53	cps
Sulfur	34-1	784026	792029	786579	787545	0.52	cps
Terbium	159-1	19613690	19900528	19767072	19760430	0.73	cps
Terbium	159-2	6835364	6908559	6794561	6846161	0.84	cps
Thallium	203-1	2543961	2605961	2575741	2575221	1.20	cps
Thallium	205-1	5984345	6007728	6089901	6027325	0.92	cps
Tin	118-1	2372683	2386508	2410556	2389916	0.80	cps
Titanium	47-1	3956731	3938165	3967522	3954139	0.38	cps
Uranium	238-1	7769629	7841791	7758251	7789890	0.58	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S4	Instrumnet Name :	P8
Client Sample ID :	S4	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:16:31	DataFile Name :	008CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	406421	406308	401802	404844	0.65	cps
Ytterbium	172-1	243	207	270	240	13.25	cps
Ytterbium	172-2	80	150	67	99	45.26	cps
Ytterbium	176-1	14048	14244	14338	14210	1.04	cps
Ytterbium	176-2	5461	5334	5311	5369	1.50	cps
Yttrium	89-1	28919890	28688876	29428827	29012531	1.30	cps
Yttrium	89-2	2087682	2056425	2044117	2062741	1.09	cps
Zinc	66-2	1023873	1025644	1030146	1026554	0.32	cps
Zirconium	90-1	4980636	5014020	4916456	4970371	1.00	cps
Zirconium	91-1	1071297	1079852	1079922	1077023	0.46	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	356958	355087	354133	355393	0.40	cps
Antimony	121-1	5859502	5976022	5998679	5944734	1.26	cps
Arsenic	75-2	109282	110237	108779	109433	0.68	cps
Barium	135-1	6845596	7121849	7003245	6990230	1.98	cps
Barium	137-1	11935621	12118363	12301994	12118659	1.51	cps
Beryllium	9-1	1311219	1309423	1309294	1309979	0.08	cps
Bismuth	209-1	11146976	11421949	11378501	11315808	1.31	cps
Bismuth	209-2	4998650	4948899	4956369	4967973	0.54	cps
Bromine	81-1	26989	27490	26545	27008	1.75	cps
Cadmium	108-1	111378	115754	114299	113810	1.96	cps
Cadmium	106-1	170168	172392	172696	171752	0.80	cps
Cadmium	111-1	1420495	1444396	1429178	1431357	0.85	cps
Calcium	43-1	1761715	1780515	1761115	1767782	0.62	cps
Calcium	44-1	28448925	28587723	28390955	28475868	0.36	cps
Carbon	12-1	3697033	3687171	3681843	3688682	0.21	cps
Carbon	12-2	25302	24995	25178	25158	0.61	cps
Chlorine	35-1	115899	116857	118493	117083	1.12	cps
Chlorine	35-2	333	433	403	390	13.16	cps
Chromium	52-2	1063421	1055012	1069937	1062790	0.70	cps
Cobalt	59-2	2118365	2087946	2135356	2113889	1.14	cps
Copper	63-2	16682790	16636606	16647274	16655557	0.15	cps
Dysprosium	156-1	310	290	327	309	5.94	cps
Dysprosium	156-2	37	47	57	47	21.43	cps
Erbium	164-1	213	210	233	219	5.77	cps
Erbium	164-2	93	120	117	110	13.21	cps
Gadolinium	160-1	233	220	267	240	10.02	cps
Gadolinium	160-2	103	90	83	92	11.04	cps
Holmium	165-1	18685416	19088772	19369168	19047785	1.80	cps
Holmium	165-2	7018380	6895212	6946285	6953292	0.89	cps
Indium	115-1	15554028	15719075	15844650	15705918	0.93	cps
Indium	115-2	1613611	1507769	1630540	1583973	4.20	cps
Iron	54-2	2294787	2246341	2289700	2276943	1.17	cps
Iron	56-2	41026149	40565007	41283058	40958071	0.89	cps
Iron	57-2	1017404	1011049	1032341	1020264	1.07	cps
Krypton	83-1	300	343	280	308	10.52	cps
Lead	206-1	21008115	21292839	21395019	21231991	0.94	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	17978461	18134871	18580509	18231280	1.71	cps
Lead	208-1	83387295	84068413	85233237	84229648	1.11	cps
Lithium	6-1	5332831	5544630	5449393	5442285	1.95	cps
Magnesium	24-2	6240014	6213493	6249343	6234284	0.30	cps
Manganese	55-2	4600851	4508887	4535539	4548426	1.04	cps
Molybdenum	94-1	20114206	20345159	20183922	20214429	0.59	cps
Molybdenum	95-1	29008000	29247534	29451344	29235626	0.76	cps
Molybdenum	96-1	31634245	31647308	32585621	31955725	1.71	cps
Molybdenum	97-1	17594304	17914744	18111101	17873383	1.46	cps
Molybdenum	98-1	46308844	47408218	47367823	47028295	1.33	cps
Neodymium	150-1	567	570	553	563	1.57	cps
Neodymium	150-2	53	20	33	36	47.19	cps
Nickel	60-2	566077	564187	567252	565839	0.27	cps
Phosphorus	31-2	16897	16977	17698	17190	2.57	cps
Potassium	39-2	1961507	1937142	1968856	1955835	0.85	cps
Rhodium	103-1	14377174	14696809	14817367	14630450	1.55	cps
Rhodium	103-2	5773633	5601405	5767384	5714141	1.71	cps
Scandium	45-1	9962399	10022271	10102564	10029078	0.70	cps
Scandium	45-2	177272	171551	178912	175912	2.20	cps
Selenium	82-1	85239	85816	86429	85828	0.69	cps
Selenium	77-2	1400	1413	1283	1366	5.24	cps
Selenium	78-2	4717	4734	4831	4761	1.29	cps
Silicon	28-1	27310391	27563176	26886873	27253480	1.25	cps
Silver	107-1	7397858	7445820	7537411	7460363	0.95	cps
Silver	109-1	7089697	7162879	7212170	7154915	0.86	cps
Sodium	23-2	12368891	12226594	12237554	12277680	0.64	cps
Strontium	86-1	1891256	1913640	1887051	1897316	0.75	cps
Strontium	88-1	16207601	16220250	16592701	16340184	1.34	cps
Sulfur	34-1	1052152	1049092	1050162	1050468	0.15	cps
Terbium	159-1	19658187	19722466	19721868	19700841	0.19	cps
Terbium	159-2	6875730	6719632	6897391	6830917	1.42	cps
Thallium	203-1	5126897	5255901	5211707	5198168	1.26	cps
Thallium	205-1	12110099	12278979	12150330	12179803	0.72	cps
Tin	118-1	4766965	4755873	4857884	4793574	1.17	cps
Titanium	47-1	7835259	7923988	7946352	7901867	0.74	cps
Uranium	238-1	15577286	15902820	16181133	15887080	1.90	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S5	Instrumnet Name :	P8
Client Sample ID :	S5	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:19:28	DataFile Name :	009CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	805614	806845	807131	806530	0.10	cps
Ytterbium	172-1	247	237	237	240	2.41	cps
Ytterbium	172-2	100	113	90	101	11.58	cps
Ytterbium	176-1	26146	26697	26988	26610	1.61	cps
Ytterbium	176-2	9727	9720	9440	9629	1.70	cps
Yttrium	89-1	28486839	28610570	28856832	28651414	0.66	cps
Yttrium	89-2	2045926	2005371	2025734	2025677	1.00	cps
Zinc	66-2	1887123	1847172	1881359	1871885	1.15	cps
Zirconium	90-1	10062615	10289665	10150080	10167453	1.13	cps
Zirconium	91-1	2228964	2288084	2288165	2268404	1.51	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	703316	698193	712986	704831	1.07	cps
Antimony	121-1	11683481	11979143	12042814	11901812	1.61	cps
Arsenic	75-2	217426	216995	217265	217229	0.10	cps
Barium	135-1	13793483	14112958	13951294	13952578	1.14	cps
Barium	137-1	23938988	24588835	24531746	24353190	1.48	cps
Beryllium	9-1	2552290	2628199	2607394	2595961	1.51	cps
Bismuth	209-1	11032816	10908512	10980182	10973836	0.57	cps
Bismuth	209-2	4863726	4856669	4931316	4883904	0.84	cps
Bromine	81-1	25917	26565	25780	26088	1.61	cps
Cadmium	108-1	223709	228246	230037	227331	1.43	cps
Cadmium	106-1	326052	336405	329996	330818	1.58	cps
Cadmium	111-1	2962692	2992484	2956354	2970510	0.65	cps
Calcium	43-1	3509043	3544844	3547708	3533865	0.61	cps
Calcium	44-1	56805802	57297902	56464849	56856185	0.74	cps
Carbon	12-1	3795914	3863129	3910142	3856395	1.49	cps
Carbon	12-2	27025	27042	27275	27114	0.52	cps
Chlorine	35-1	133126	134817	136379	134774	1.21	cps
Chlorine	35-2	483	480	347	437	17.85	cps
Chromium	52-2	2208916	2198969	2200741	2202875	0.24	cps
Cobalt	59-2	4092573	4148422	4191981	4144325	1.20	cps
Copper	63-2	32739489	32549743	32087453	32458895	1.03	cps
Dysprosium	156-1	447	450	520	472	8.77	cps
Dysprosium	156-2	53	67	63	61	11.36	cps
Erbium	164-1	313	330	340	328	4.11	cps
Erbium	164-2	163	113	93	123	29.24	cps
Gadolinium	160-1	340	267	313	307	12.10	cps
Gadolinium	160-2	93	100	100	98	3.94	cps
Holmium	165-1	18737705	19024656	18985646	18916002	0.82	cps
Holmium	165-2	6988105	6899275	6887601	6924994	0.79	cps
Indium	115-1	15158348	15507176	15083775	15249767	1.48	cps
Indium	115-2	1467295	1471656	1493776	1477576	0.96	cps
Iron	54-2	4484981	4442589	4455393	4460988	0.49	cps
Iron	56-2	80923565	81311484	82297119	81510723	0.87	cps
Iron	57-2	2072922	2138233	2099700	2103619	1.56	cps
Krypton	83-1	297	307	340	314	7.22	cps
Lead	206-1	42062379	42325073	42765884	42384445	0.84	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35647990	36103175	36785948	36179038	1.58	cps
Lead	208-1	165919028	166819367	169643477	167460624	1.16	cps
Lithium	6-1	5290554	5331746	5359603	5327301	0.65	cps
Magnesium	24-2	12432429	12309585	12464876	12402297	0.66	cps
Manganese	55-2	9009969	9135348	8988009	9044442	0.88	cps
Molybdenum	94-1	41290703	41067856	40618368	40992309	0.84	cps
Molybdenum	95-1	58890956	59392802	58796294	59026684	0.54	cps
Molybdenum	96-1	64289552	64709056	64866169	64621592	0.46	cps
Molybdenum	97-1	36178406	36766937	36463904	36469749	0.81	cps
Molybdenum	98-1	94317095	95825129	94187895	94776706	0.96	cps
Neodymium	150-1	1233	1087	1150	1157	6.36	cps
Neodymium	150-2	77	60	97	78	23.61	cps
Nickel	60-2	1093872	1110859	1106487	1103739	0.80	cps
Phosphorus	31-2	34190	34611	34000	34267	0.91	cps
Potassium	39-2	3981745	3889442	3898995	3923394	1.29	cps
Rhodium	103-1	13987743	14035396	13888561	13970567	0.54	cps
Rhodium	103-2	5462643	5548389	5513663	5508232	0.78	cps
Scandium	45-1	9779850	9637145	9681635	9699543	0.75	cps
Scandium	45-2	172095	174438	173116	173216	0.68	cps
Selenium	82-1	169653	172770	173941	172122	1.29	cps
Selenium	77-2	2760	2814	2610	2728	3.87	cps
Selenium	78-2	9420	9286	9597	9434	1.65	cps
Silicon	28-1	52647191	53114846	54165196	53309078	1.46	cps
Silver	107-1	14590089	14982883	14955831	14842935	1.48	cps
Silver	109-1	13976766	14218198	14305054	14166672	1.20	cps
Sodium	23-2	24718493	24395988	24698544	24604342	0.73	cps
Strontium	86-1	3799977	3772906	3779250	3784044	0.37	cps
Strontium	88-1	33178361	32841220	33299346	33106309	0.72	cps
Sulfur	34-1	1325133	1343915	1335145	1334731	0.70	cps
Terbium	159-1	19714016	19222536	19417116	19451223	1.27	cps
Terbium	159-2	6626619	6646948	6733136	6668901	0.85	cps
Thallium	203-1	10244628	10358717	10407465	10336937	0.81	cps
Thallium	205-1	24333673	24506230	25016700	24618867	1.44	cps
Tin	118-1	9410570	9606445	9550080	9522365	1.06	cps
Titanium	47-1	15921421	16043724	15886926	15950690	0.52	cps
Uranium	238-1	31627790	31893834	32636020	32052548	1.63	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S6	Instrumnet Name :	P8
Client Sample ID :	S6	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:22:16	DataFile Name :	010CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1663347	1657151	1618408	1646302	1.48	cps
Ytterbium	172-1	337	377	397	370	8.26	cps
Ytterbium	172-2	133	147	123	134	8.71	cps
Ytterbium	176-1	50459	51533	50975	50989	1.05	cps
Ytterbium	176-2	19398	18710	18543	18884	2.40	cps
Yttrium	89-1	28745121	28104760	28011850	28287243	1.41	cps
Yttrium	89-2	1993036	1968682	2027487	1996402	1.48	cps
Zinc	66-2	3644120	3609071	3636237	3629809	0.51	cps
Zirconium	90-1	20316466	20580422	20304599	20400496	0.76	cps
Zirconium	91-1	4516822	4617660	4592842	4575775	1.15	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1419052	1451475	1434995	1435174	1.13	cps
Antimony	121-1	23667173	23902896	23846014	23805361	0.52	cps
Arsenic	75-2	433655	437859	436479	435997	0.49	cps
Barium	135-1	28104891	28744200	28754850	28534647	1.30	cps
Barium	137-1	48784794	49074359	49653833	49170995	0.90	cps
Beryllium	9-1	4853218	5026734	5118887	4999613	2.70	cps
Bismuth	209-1	10552956	10732629	10578188	10621258	0.92	cps
Bismuth	209-2	4642091	4677591	4605585	4641756	0.78	cps
Bromine	81-1	26281	25430	25553	25755	1.79	cps
Cadmium	108-1	441646	448935	449450	446677	0.98	cps
Cadmium	106-1	644849	646394	650858	647367	0.48	cps
Cadmium	111-1	5704556	5766362	5883845	5784921	1.57	cps
Calcium	43-1	6846569	6957478	6965901	6923316	0.96	cps
Calcium	44-1	111359198	115007045	113557792	113308012	1.62	cps
Carbon	12-1	4206474	4250992	4267610	4241692	0.75	cps
Carbon	12-2	30532	30695	31387	30871	1.47	cps
Chlorine	35-1	163047	169594	173011	168551	3.00	cps
Chlorine	35-2	537	553	640	577	9.62	cps
Chromium	52-2	4364853	4290553	4359973	4338460	0.96	cps
Cobalt	59-2	8272479	8177234	8184205	8211306	0.65	cps
Copper	63-2	63891127	64678532	63827057	64132239	0.74	cps
Dysprosium	156-1	660	710	737	702	5.54	cps
Dysprosium	156-2	130	137	137	134	2.86	cps
Erbium	164-1	510	543	477	510	6.54	cps
Erbium	164-2	207	197	177	193	7.90	cps
Gadolinium	160-1	410	430	417	419	2.43	cps
Gadolinium	160-2	150	167	177	164	8.19	cps
Holmium	165-1	18485832	18457493	18681339	18541555	0.66	cps
Holmium	165-2	6739052	6725125	6743467	6735881	0.14	cps
Indium	115-1	14504116	14604913	14826743	14645257	1.13	cps
Indium	115-2	1397051	1402120	1396795	1398655	0.21	cps
Iron	54-2	8984890	8937015	9025396	8982434	0.49	cps
Iron	56-2	162126528	163171218	163555394	162951046	0.45	cps
Iron	57-2	4142723	4179928	4080799	4134483	1.21	cps
Krypton	83-1	363	397	377	379	4.43	cps
Lead	206-1	84137490	84767189	86340595	85081758	1.33	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	71705282	71942809	73504206	72384099	1.35	cps
Lead	208-1	331850817	334468602	335969585	334096334	0.62	cps
Lithium	6-1	5015101	5031471	5113363	5053312	1.04	cps
Magnesium	24-2	24818811	25146255	25142405	25035824	0.75	cps
Manganese	55-2	18242716	18204294	18112677	18186562	0.37	cps
Molybdenum	94-1	82001044	82945900	83378675	82775207	0.85	cps
Molybdenum	95-1	119039175	119165208	120419352	119541245	0.64	cps
Molybdenum	96-1	127674525	129026071	130255958	128985518	1.00	cps
Molybdenum	97-1	72302864	73789501	73615766	73236043	1.11	cps
Molybdenum	98-1	188492191	190566597	194027690	191028826	1.46	cps
Neodymium	150-1	2080	2120	2337	2179	6.34	cps
Neodymium	150-2	140	67	117	108	34.76	cps
Nickel	60-2	2313025	2329029	2276173	2306076	1.18	cps
Phosphorus	31-2	68249	68126	67355	67910	0.71	cps
Potassium	39-2	7836591	7720614	7830280	7795828	0.84	cps
Rhodium	103-1	13471307	13397533	13454415	13441085	0.29	cps
Rhodium	103-2	5371733	5288035	5395537	5351768	1.06	cps
Scandium	45-1	9400042	9439508	9511310	9450287	0.60	cps
Scandium	45-2	173321	173042	173982	173448	0.28	cps
Selenium	82-1	334606	340286	342037	338976	1.15	cps
Selenium	77-2	5585	5404	5468	5486	1.67	cps
Selenium	78-2	18906	19146	18743	18932	1.07	cps
Silicon	28-1	103410615	105183515	103404248	103999460	0.99	cps
Silver	107-1	28904492	29136420	28920250	28987054	0.45	cps
Silver	109-1	27336141	27390276	27587807	27438075	0.48	cps
Sodium	23-2	49275583	49956478	49766709	49666256	0.71	cps
Strontium	86-1	7504758	7571139	7521432	7532443	0.46	cps
Strontium	88-1	65435694	66311381	66237422	65994832	0.74	cps
Sulfur	34-1	2116009	2156139	2154163	2142104	1.06	cps
Terbium	159-1	19315356	19279073	19200197	19264875	0.31	cps
Terbium	159-2	6519865	6531015	6557438	6536106	0.30	cps
Thallium	203-1	20806642	20796380	21223361	20942128	1.16	cps
Thallium	205-1	48722146	48924856	49347629	48998210	0.65	cps
Tin	118-1	19247088	19236778	19406405	19296757	0.49	cps
Titanium	47-1	31378951	32085382	31993220	31819185	1.21	cps
Uranium	238-1	63970852	65502106	65344511	64939156	1.30	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S7	Instrumnet Name :	P8
Client Sample ID :	S7	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:25:03	DataFile Name :	011CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	3325116	3293052	3323721	3313963	0.55	cps
Ytterbium	172-1	563	473	497	511	9.14	cps
Ytterbium	172-2	217	207	277	233	16.23	cps
Ytterbium	176-1	99431	101221	101446	100699	1.10	cps
Ytterbium	176-2	37189	37182	37500	37290	0.49	cps
Yttrium	89-1	27680839	27712120	27322210	27571723	0.79	cps
Yttrium	89-2	1972605	1918527	1975557	1955563	1.64	cps
Zinc	66-2	6996203	7117547	7042516	7052089	0.87	cps
Zirconium	90-1	40592006	41204441	41508326	41101591	1.14	cps
Zirconium	91-1	9101150	9203118	9177267	9160512	0.58	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6469742	6517276	6529476	6505498	0.49	cps
Antimony	121-1	17371	16777	16433	16860	2.81	cps
Arsenic	75-2	213	223	197	211	6.38	cps
Barium	135-1	10758	11068	10714	10847	1.78	cps
Barium	137-1	18853	19264	19147	19088	1.11	cps
Beryllium	9-1	669	607	592	623	6.48	cps
Bismuth	209-1	9437115	9206977	9289964	9311352	1.25	cps
Bismuth	209-2	4183427	4227403	4194130	4201653	0.55	cps
Bromine	81-1	24632	23426	24318	24125	2.59	cps
Cadmium	108-1	243	230	183	219	14.39	cps
Cadmium	106-1	9323	8833	9023	9060	2.73	cps
Cadmium	111-1	7289	6969	7031	7096	2.39	cps
Calcium	43-1	32351435	32381943	32460306	32397895	0.17	cps
Calcium	44-1	522585126	528020112	530112632	526905957	0.74	cps
Carbon	12-1	3640216	3660567	3673716	3658166	0.46	cps
Carbon	12-2	32095	31694	32453	32081	1.18	cps
Chlorine	35-1	125680	127461	127637	126926	0.85	cps
Chlorine	35-2	523	450	420	464	11.45	cps
Chromium	52-2	37867	37051	37021	37313	1.29	cps
Cobalt	59-2	16269	16633	16603	16502	1.22	cps
Copper	63-2	16583	17017	16813	16804	1.29	cps
Dysprosium	156-1	970	950	867	929	5.90	cps
Dysprosium	156-2	227	283	240	250	11.85	cps
Erbium	164-1	943	977	977	966	1.99	cps
Erbium	164-2	450	347	377	391	13.59	cps
Gadolinium	160-1	840	920	733	831	11.27	cps
Gadolinium	160-2	287	293	327	302	7.09	cps
Holmium	165-1	17573919	17313672	17599099	17495563	0.90	cps
Holmium	165-2	6428766	6506827	6465765	6467119	0.60	cps
Indium	115-1	13861549	13809829	13898706	13856695	0.32	cps
Indium	115-2	1380553	1379356	1383086	1380998	0.14	cps
Iron	54-2	40942454	40313433	40491116	40582334	0.80	cps
Iron	56-2	753755775	745490016	752234362	750493384	0.59	cps
Iron	57-2	19042488	18978037	18943245	18987923	0.27	cps
Krypton	83-1	350	343	350	348	1.11	cps
Lead	206-1	87019	86395	86107	86507	0.54	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	75592	75387	74063	75014	1.11	cps
Lead	208-1	344838	344107	341933	343626	0.44	cps
Lithium	6-1	4560181	4554422	4655491	4590031	1.24	cps
Magnesium	24-2	111522928	112558452	109254218	111111866	1.52	cps
Manganese	55-2	11598	11598	11808	11668	1.04	cps
Molybdenum	94-1	17424	16353	16273	16683	3.85	cps
Molybdenum	95-1	16353	15596	15242	15730	3.61	cps
Molybdenum	96-1	29471	29435	28142	29016	2.61	cps
Molybdenum	97-1	9880	9317	8846	9348	5.54	cps
Molybdenum	98-1	25203	24428	23029	24220	4.55	cps
Neodymium	150-1	417	517	403	446	13.90	cps
Neodymium	150-2	140	73	130	114	31.42	cps
Nickel	60-2	10421	10731	10734	10628	1.69	cps
Phosphorus	31-2	130	113	140	128	10.54	cps
Potassium	39-2	36680149	36514721	36991422	36728764	0.66	cps
Rhodium	103-1	12140124	12098274	12109223	12115874	0.18	cps
Rhodium	103-2	4883055	4747951	4801335	4810780	1.41	cps
Scandium	45-1	8952658	8948307	8918301	8939755	0.21	cps
Scandium	45-2	160740	160707	161840	161096	0.40	cps
Selenium	82-1	213	217	323	251	24.92	cps
Selenium	77-2	3	0	10	4	114.60	cps
Selenium	78-2	40	23	23	29	33.32	cps
Silicon	28-1	682315	650367	629305	653996	4.08	cps
Silver	107-1	3097	2914	2424	2811	12.38	cps
Silver	109-1	2504	2360	2197	2354	6.52	cps
Sodium	23-2	220134243	220284037	220955237	220457839	0.20	cps
Strontium	86-1	23657	23597	23750	23668	0.33	cps
Strontium	88-1	202702	205828	201373	203301	1.12	cps
Sulfur	34-1	436554	439458	437385	437799	0.34	cps
Terbium	159-1	18241153	18099502	17911486	18084047	0.91	cps
Terbium	159-2	6260242	6255899	6379843	6298662	1.12	cps
Thallium	203-1	1947	1757	1527	1743	12.06	cps
Thallium	205-1	4628	4417	3687	4244	11.63	cps
Tin	118-1	7025	6555	6515	6698	4.24	cps
Titanium	47-1	3157	3144	3394	3232	4.35	cps
Uranium	238-1	3104	2917	2664	2895	7.63	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	S8	Instrumnet Name :	P8
Client Sample ID :	S8	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:27:48	DataFile Name :	012CALS.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	813	850	907	857	5.49	cps
Ytterbium	172-1	1583	1570	1580	1578	0.44	cps
Ytterbium	172-2	693	733	653	693	5.77	cps
Ytterbium	176-1	3294	3304	3444	3347	2.51	cps
Ytterbium	176-2	1143	1077	1033	1085	5.11	cps
Yttrium	89-1	26297710	26284485	26225374	26269190	0.15	cps
Yttrium	89-2	1943740	1904477	1920183	1922800	1.03	cps
Zinc	66-2	39953	41223	39909	40362	1.85	cps
Zirconium	90-1	19777	19487	19333	19533	1.15	cps
Zirconium	91-1	4277	4477	4234	4330	3.00	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	37786	37522	37251	37519	0.71	cps
Antimony	121-1	5067321	5193028	5111266	5123872	1.25	cps
Arsenic	75-2	98377	98219	98350	98315	0.09	cps
Barium	135-1	595397	604141	609598	603045	1.19	cps
Barium	137-1	1046711	1059751	1049864	1052108	0.65	cps
Beryllium	9-1	602822	612798	608995	608205	0.83	cps
Bismuth	209-1	12057735	12095319	12125359	12092804	0.28	cps
Bismuth	209-2	5472551	5381012	5408213	5420592	0.87	cps
Bromine	81-1	27677	27604	28055	27779	0.87	cps
Cadmium	108-1	41984	42890	42221	42365	1.11	cps
Cadmium	106-1	67517	68820	67799	68046	1.01	cps
Cadmium	111-1	638510	644546	651956	645004	1.04	cps
Calcium	43-1	151050	152456	154644	152716	1.19	cps
Calcium	44-1	2484500	2511749	2543582	2513277	1.18	cps
Carbon	12-1	3889758	3804430	3769129	3821106	1.62	cps
Carbon	12-2	24814	25238	25499	25184	1.37	cps
Chlorine	35-1	123575	123898	127199	124891	1.61	cps
Chlorine	35-2	467	437	410	438	6.48	cps
Chromium	52-2	486679	489291	485276	487082	0.42	cps
Cobalt	59-2	948164	950001	955276	951147	0.39	cps
Copper	63-2	761933	761433	754312	759226	0.56	cps
Dysprosium	156-1	117	130	90	112	18.15	cps
Dysprosium	156-2	3	7	10	7	50.03	cps
Erbium	164-1	150	157	93	133	26.10	cps
Erbium	164-2	90	57	63	70	25.20	cps
Gadolinium	160-1	93	150	127	123	23.09	cps
Gadolinium	160-2	40	43	47	43	7.70	cps
Holmium	165-1	19620893	19837760	19804168	19754274	0.59	cps
Holmium	165-2	7333026	7500360	7298447	7377277	1.46	cps
Indium	115-1	16815646	16811277	16939142	16855355	0.43	cps
Indium	115-2	1769803	1816202	1780353	1788786	1.36	cps
Iron	54-2	405478	401452	403335	403421	0.50	cps
Iron	56-2	7320988	7439811	7308370	7356390	0.99	cps
Iron	57-2	179997	183420	182333	181917	0.96	cps
Krypton	83-1	287	243	290	273	9.52	cps
Lead	206-1	3891781	3846042	3823438	3853754	0.90	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3200049	3207461	3135003	3180838	1.25	cps
Lead	208-1	14865082	14930339	14786563	14860661	0.48	cps
Lithium	6-1	5661537	5741843	5627785	5677055	1.03	cps
Magnesium	24-2	317409	318395	313835	316547	0.76	cps
Manganese	55-2	204990	202820	203581	203797	0.54	cps
Molybdenum	94-1	1027	1187	1323	1179	12.60	cps
Molybdenum	95-1	483	440	513	479	7.70	cps
Molybdenum	96-1	987	1113	1110	1070	6.75	cps
Molybdenum	97-1	337	363	350	350	3.81	cps
Molybdenum	98-1	977	837	897	903	7.78	cps
Neodymium	150-1	83	83	77	81	4.74	cps
Neodymium	150-2	0	3	13	6	124.93	cps
Nickel	60-2	266856	265261	268660	266926	0.64	cps
Phosphorus	31-2	93	123	110	109	13.81	cps
Potassium	39-2	342787	344915	344561	344088	0.33	cps
Rhodium	103-1	16049195	16042834	15854167	15982065	0.69	cps
Rhodium	103-2	6310584	6322836	6349685	6327701	0.32	cps
Scandium	45-1	10710099	10677019	10843386	10743501	0.82	cps
Scandium	45-2	187428	188098	187517	187681	0.19	cps
Selenium	82-1	80427	80310	80139	80292	0.18	cps
Selenium	77-2	1220	1350	1333	1301	5.44	cps
Selenium	78-2	4331	4341	4414	4362	1.04	cps
Silicon	28-1	445050	463711	451511	453424	2.09	cps
Silver	107-1	1379634	1417574	1424662	1407290	1.72	cps
Silver	109-1	1319496	1347048	1357004	1341182	1.45	cps
Sodium	23-2	1062426	1093908	1082271	1079535	1.47	cps
Strontium	86-1	2397	2434	2457	2429	1.25	cps
Strontium	88-1	18085	18349	18195	18210	0.73	cps
Sulfur	34-1	521684	520506	518478	520223	0.31	cps
Terbium	159-1	20713080	20824322	20481129	20672844	0.85	cps
Terbium	159-2	7348477	7172433	7260537	7260483	1.21	cps
Thallium	203-1	4548924	4624039	4616358	4596440	0.90	cps
Thallium	205-1	10763268	10804764	10843652	10803895	0.37	cps
Tin	118-1	4494	4197	4427	4373	3.56	cps
Titanium	47-1	420	340	437	399	12.95	cps
Uranium	238-1	133	133	163	143	12.08	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICV01	Instrumnet Name :	P8
Client Sample ID :	ICV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 15:58:07	DataFile Name :	016ICV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	360802	361602	363710	362038	0.42	cps
Ytterbium	172-1	127	100	137	121	15.65	cps
Ytterbium	172-2	37	43	47	42	12.06	cps
Ytterbium	176-1	2764	2804	2767	2778	0.80	cps
Ytterbium	176-2	913	793	793	833	8.31	cps
Yttrium	89-1	30562718	30658866	30591697	30604427	0.16	cps
Yttrium	89-2	2207075	2213400	2192060	2204178	0.50	cps
Zinc	66-2	159553	160194	160742	160163	0.37	cps
Zirconium	90-1	2204	2184	2214	2200	0.69	cps
Zirconium	91-1	1157	1147	1340	1215	8.96	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1697	1693	1713	1701	0.63	cps
Antimony	121-1	47054	46790	47419	47087	0.67	cps
Arsenic	75-2	467	463	517	482	6.20	cps
Barium	135-1	56360	56420	57090	56623	0.72	cps
Barium	137-1	96739	97793	98877	97803	1.09	cps
Beryllium	9-1	5927	6099	6063	6030	1.51	cps
Bismuth	209-1	11929718	12147640	12128818	12068725	1.00	cps
Bismuth	209-2	5512211	5601306	5415447	5509655	1.69	cps
Bromine	81-1	27965	28542	28372	28293	1.05	cps
Cadmium	108-1	370	533	533	479	19.69	cps
Cadmium	106-1	10864	11121	10828	10938	1.46	cps
Cadmium	111-1	13604	13406	13494	13502	0.73	cps
Calcium	43-1	38017	38478	38311	38269	0.61	cps
Calcium	44-1	630685	636240	625585	630836	0.84	cps
Carbon	12-1	3559662	3504315	3466264	3510081	1.34	cps
Carbon	12-2	22968	22350	22691	22670	1.36	cps
Chlorine	35-1	94522	95257	94694	94824	0.41	cps
Chlorine	35-2	363	260	260	294	20.26	cps
Chromium	52-2	10727	10160	10621	10503	2.87	cps
Cobalt	59-2	9350	9323	9550	9408	1.32	cps
Copper	63-2	16189	16153	15776	16039	1.43	cps
Dysprosium	156-1	100	90	67	86	19.99	cps
Dysprosium	156-2	0	20	10	10	100.00	cps
Erbium	164-1	137	167	120	141	16.76	cps
Erbium	164-2	50	53	37	47	18.89	cps
Gadolinium	160-1	153	117	167	146	17.79	cps
Gadolinium	160-2	27	50	37	38	30.98	cps
Holmium	165-1	19948397	20121773	19903694	19991288	0.58	cps
Holmium	165-2	7552339	7508469	7340192	7467000	1.50	cps
Indium	115-1	17237171	17179706	17302854	17239910	0.36	cps
Indium	115-2	1822875	1836764	1835915	1831851	0.43	cps
Iron	54-2	10587	10467	10214	10423	1.83	cps
Iron	56-2	183838	183950	182053	183280	0.58	cps
Iron	57-2	4581	4634	4457	4557	1.99	cps
Krypton	83-1	300	263	250	271	9.55	cps
Lead	206-1	17161	17445	16918	17175	1.54	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	14945	15556	15573	15358	2.33	cps
Lead	208-1	69675	70218	69911	69935	0.39	cps
Lithium	6-1	5811017	5612614	5686828	5703486	1.76	cps
Magnesium	24-2	131816	135964	133471	133751	1.56	cps
Manganese	55-2	3937	4321	4101	4120	4.67	cps
Molybdenum	94-1	49501	51231	50227	50319	1.73	cps
Molybdenum	95-1	58911	59624	60916	59817	1.70	cps
Molybdenum	96-1	65681	65741	65935	65786	0.20	cps
Molybdenum	97-1	37063	37046	37026	37045	0.05	cps
Molybdenum	98-1	95234	96214	96053	95833	0.55	cps
Neodymium	150-1	17	30	37	28	36.66	cps
Neodymium	150-2	3	7	3	4	43.40	cps
Nickel	60-2	2697	2750	2937	2795	4.51	cps
Phosphorus	31-2	207	173	263	214	21.22	cps
Potassium	39-2	93048	92229	93024	92767	0.50	cps
Rhodium	103-1	16373888	16186002	16069059	16209650	0.95	cps
Rhodium	103-2	6420642	6483372	6452374	6452129	0.49	cps
Scandium	45-1	10869589	10753185	10903567	10842113	0.73	cps
Scandium	45-2	191628	190367	190489	190828	0.36	cps
Selenium	82-1	1683	1814	1967	1821	7.79	cps
Selenium	77-2	23	30	37	30	22.23	cps
Selenium	78-2	113	173	110	132	26.96	cps
Silicon	28-1	537367	546654	563507	549176	2.41	cps
Silver	107-1	29635	29889	30988	30171	2.38	cps
Silver	109-1	28085	28787	29101	28658	1.81	cps
Sodium	23-2	283527	284304	287436	285089	0.73	cps
Strontium	86-1	7992	8429	8426	8283	3.03	cps
Strontium	88-1	67425	68246	68728	68133	0.97	cps
Sulfur	34-1	540557	539678	540610	540282	0.10	cps
Terbium	159-1	20666116	20538318	21176600	20793678	1.62	cps
Terbium	159-2	7318294	7317199	7359299	7331597	0.33	cps
Thallium	203-1	20416	20356	21127	20633	2.08	cps
Thallium	205-1	48761	49688	49337	49262	0.95	cps
Tin	118-1	99592	101126	100180	100299	0.77	cps
Titanium	47-1	17684	17721	17678	17694	0.13	cps
Uranium	238-1	62242	63019	62318	62526	0.68	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	LLICV	Instrumnet Name :	P8
Client Sample ID :	LLICV	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:08:42	DataFile Name :	018LLIC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17404	17531	17274	17403	0.74	cps
Ytterbium	172-1	140	137	137	138	1.40	cps
Ytterbium	172-2	53	43	67	54	21.51	cps
Ytterbium	176-1	2787	2867	2680	2778	3.37	cps
Ytterbium	176-2	923	930	913	922	0.91	cps
Yttrium	89-1	31342467	31227113	31264315	31277965	0.19	cps
Yttrium	89-2	2247825	2276124	2242831	2255593	0.80	cps
Zinc	66-2	4344	4184	4204	4244	2.06	cps
Zirconium	90-1	41846	43250	42849	42648	1.70	cps
Zirconium	91-1	9490	9553	9560	9534	0.41	cps

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On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	83	113	83	93	18.56	cps
Antimony	121-1	137	207	187	177	20.41	cps
Arsenic	75-2	7	7	10	8	24.71	cps
Barium	135-1	170	133	130	144	15.36	cps
Barium	137-1	267	170	230	222	21.96	cps
Beryllium	9-1	102	81	120	101	19.17	cps
Bismuth	209-1	12425799	12273488	12185556	12294948	0.99	cps
Bismuth	209-2	5527802	5582620	5548598	5553007	0.50	cps
Bromine	81-1	27664	28038	28716	28139	1.90	cps
Cadmium	108-1	17	47	10	24	79.90	cps
Cadmium	106-1	10494	10217	10457	10390	1.45	cps
Cadmium	111-1	7358	7149	7343	7283	1.60	cps
Calcium	43-1	843	787	827	819	3.56	cps
Calcium	44-1	24161	23897	24151	24070	0.62	cps
Carbon	12-1	3599530	3558728	3453850	3537370	2.12	cps
Carbon	12-2	22688	23148	22681	22839	1.17	cps
Chlorine	35-1	96270	95519	94912	95567	0.71	cps
Chlorine	35-2	327	333	257	306	13.90	cps
Chromium	52-2	1000	990	1073	1021	4.46	cps
Cobalt	59-2	133	147	150	143	6.15	cps
Copper	63-2	1217	1223	1160	1200	2.90	cps
Dysprosium	156-1	77	80	63	73	12.03	cps
Dysprosium	156-2	3	3	10	6	69.34	cps
Erbium	164-1	127	183	150	153	18.57	cps
Erbium	164-2	33	33	30	32	5.97	cps
Gadolinium	160-1	157	147	157	153	3.77	cps
Gadolinium	160-2	43	33	40	39	13.09	cps
Holmium	165-1	20209287	19883546	20124436	20072423	0.84	cps
Holmium	165-2	7445351	7441676	7563329	7483452	0.92	cps
Indium	115-1	17306443	17100759	17418309	17275170	0.93	cps
Indium	115-2	1841709	1838523	1859755	1846662	0.62	cps
Iron	54-2	697	613	1050	787	29.50	cps
Iron	56-2	6988	6822	7109	6973	2.07	cps
Iron	57-2	153	220	173	182	18.77	cps
Krypton	83-1	227	287	230	248	13.61	cps
Lead	206-1	877	927	830	878	5.51	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	730	747	700	726	3.26	cps
Lead	208-1	3400	3540	3360	3434	2.75	cps
Lithium	6-1	5748176	5786561	5729219	5754652	0.51	cps
Magnesium	24-2	540	500	413	484	13.37	cps
Manganese	55-2	1867	1930	1997	1931	3.37	cps
Molybdenum	94-1	513	647	527	562	13.06	cps
Molybdenum	95-1	180	157	160	166	7.62	cps
Molybdenum	96-1	307	367	300	324	11.32	cps
Molybdenum	97-1	117	127	80	108	22.80	cps
Molybdenum	98-1	237	257	247	247	4.05	cps
Neodymium	150-1	13	37	23	24	47.91	cps
Neodymium	150-2	0	7	3	3	100.05	cps
Nickel	60-2	227	253	253	244	6.30	cps
Phosphorus	31-2	110	97	107	104	6.64	cps
Potassium	39-2	11214	11591	11325	11377	1.70	cps
Rhodium	103-1	16266711	16387409	16490831	16381650	0.68	cps
Rhodium	103-2	6457852	6542233	6463681	6487922	0.73	cps
Scandium	45-1	10784932	10652079	10882107	10773039	1.07	cps
Scandium	45-2	191295	192877	192869	192347	0.47	cps
Selenium	82-1	47	13	10	23	86.86	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	13	3	9	57.30	cps
Silicon	28-1	499688	449744	435597	461676	7.29	cps
Silver	107-1	317	287	293	299	5.27	cps
Silver	109-1	203	157	187	182	12.98	cps
Sodium	23-2	23062	22681	23426	23056	1.61	cps
Strontium	86-1	440	437	473	450	4.51	cps
Strontium	88-1	343	413	467	408	15.17	cps
Sulfur	34-1	541563	542942	544693	543066	0.29	cps
Terbium	159-1	21098521	21213572	21068530	21126875	0.36	cps
Terbium	159-2	7274863	7346999	7329718	7317193	0.51	cps
Thallium	203-1	333	280	293	302	9.18	cps
Thallium	205-1	620	660	707	662	6.55	cps
Tin	118-1	4144	4107	4261	4171	1.92	cps
Titanium	47-1	730	850	740	773	8.61	cps
Uranium	238-1	90	93	107	97	9.13	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICB01	Instrumnet Name :	P8
Client Sample ID :	ICB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:15:46	DataFile Name :	020CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	17	7	0	8	107.84	cps
Ytterbium	172-1	137	90	133	120	21.70	cps
Ytterbium	172-2	33	53	67	51	32.83	cps
Ytterbium	176-1	2827	2617	2680	2708	3.98	cps
Ytterbium	176-2	707	833	860	800	10.24	cps
Yttrium	89-1	31532546	31768105	31513600	31604750	0.45	cps
Yttrium	89-2	2271313	2274892	2271163	2272456	0.09	cps
Zinc	66-2	333	343	340	339	1.50	cps
Zirconium	90-1	1510	1487	1463	1487	1.57	cps
Zirconium	91-1	243	253	307	268	12.71	cps

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6958643	7052878	7080855	7030792	0.91	cps
Antimony	121-1	27137	27090	27651	27293	1.14	cps
Arsenic	75-2	153	113	163	143	18.46	cps
Barium	135-1	8563	9170	8793	8842	3.47	cps
Barium	137-1	15132	15402	15199	15244	0.92	cps
Beryllium	9-1	1734	1706	1695	1712	1.16	cps
Bismuth	209-1	10883632	11131614	11314590	11109945	1.95	cps
Bismuth	209-2	4990588	4875316	4934371	4933425	1.17	cps
Bromine	81-1	29140	30754	30737	30210	3.07	cps
Cadmium	108-1	6965	6885	6465	6772	3.97	cps
Cadmium	106-1	9844	9650	10154	9882	2.57	cps
Cadmium	111-1	9964	9955	10671	10197	4.03	cps
Calcium	43-1	7560519	7678146	7589951	7609539	0.80	cps
Calcium	44-1	123568035	122475135	125200335	123747835	1.11	cps
Carbon	12-1	47125459	48118306	48619731	47954499	1.59	cps
Carbon	12-2	320843	316649	318369	318621	0.66	cps
Chlorine	35-1	103679092	109410988	112170735	108420272	4.00	cps
Chlorine	35-2	437184	438026	442730	439314	0.68	cps
Chromium	52-2	94104	93073	95302	94160	1.18	cps
Cobalt	59-2	10621	10371	10397	10463	1.31	cps
Copper	63-2	53483	54297	55585	54455	1.95	cps
Dysprosium	156-1	150	180	150	160	10.83	cps
Dysprosium	156-2	43	47	47	46	4.23	cps
Erbium	164-1	227	247	267	247	8.11	cps
Erbium	164-2	87	77	70	78	10.79	cps
Gadolinium	160-1	217	217	240	224	6.00	cps
Gadolinium	160-2	60	70	67	66	7.77	cps
Holmium	165-1	19697810	19893886	19792763	19794820	0.50	cps
Holmium	165-2	7327761	7324695	7194858	7282438	1.04	cps
Indium	115-1	16059219	16359418	16507308	16308649	1.40	cps
Indium	115-2	1654560	1641506	1666392	1654153	0.75	cps
Iron	54-2	19113576	19145731	19454916	19238075	0.98	cps
Iron	56-2	352832261	356329595	361383888	356848581	1.20	cps
Iron	57-2	8879950	9040827	9038187	8986321	1.03	cps
Krypton	83-1	333	337	317	329	3.26	cps
Lead	206-1	78382	80404	79240	79342	1.28	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	62339	62614	61508	62154	0.93	cps
Lead	208-1	294279	298593	296740	296537	0.73	cps
Lithium	6-1	5489208	5318913	5416288	5408136	1.58	cps
Magnesium	24-2	25361532	25182220	25871412	25471721	1.40	cps
Manganese	55-2	16920	16533	16590	16681	1.25	cps
Molybdenum	94-1	14224200	14543713	14313051	14360321	1.15	cps
Molybdenum	95-1	25330696	25540920	25170090	25347235	0.73	cps
Molybdenum	96-1	27185336	27146252	27296175	27209254	0.29	cps
Molybdenum	97-1	15596854	15729291	15921081	15749075	1.04	cps
Molybdenum	98-1	39866136	41350163	41066254	40760851	1.93	cps
Neodymium	150-1	123	133	87	114	21.47	cps
Neodymium	150-2	20	27	30	26	19.92	cps
Nickel	60-2	13250	13787	13863	13633	2.45	cps
Phosphorus	31-2	378629	381908	380650	380396	0.43	cps
Potassium	39-2	16925240	16867504	16842158	16878300	0.25	cps
Rhodium	103-1	14586174	14625450	14769001	14660208	0.66	cps
Rhodium	103-2	5796824	5814590	5809093	5806836	0.16	cps
Scandium	45-1	10597035	10530538	10580221	10569265	0.33	cps
Scandium	45-2	185444	185059	185271	185258	0.10	cps
Selenium	82-1	13	-7	53	20	152.70	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	27	17	20	21	24.12	cps
Silicon	28-1	776992	779279	774595	776955	0.30	cps
Silver	107-1	1533	1560	1443	1512	4.04	cps
Silver	109-1	1487	1293	1387	1389	6.96	cps
Sodium	23-2	53998646	53332304	53502319	53611090	0.65	cps
Strontium	86-1	266354	272755	271873	270327	1.28	cps
Strontium	88-1	2483838	2559249	2482853	2508647	1.75	cps
Sulfur	34-1	9764162	9550888	9633639	9649563	1.11	cps
Terbium	159-1	20354619	20477121	20862183	20564641	1.29	cps
Terbium	159-2	7016791	6929855	7032284	6992977	0.79	cps
Thallium	203-1	1273	1827	2257	1786	27.61	cps
Thallium	205-1	2960	4281	5278	4173	27.86	cps
Tin	118-1	10391	9957	8990	9779	7.33	cps
Titanium	47-1	7073924	7108754	7160099	7114259	0.61	cps
Uranium	238-1	1133	1170	1213	1172	3.42	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSA01	Instrumnet Name :	P8
Client Sample ID :	ICSA01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:19:45	DataFile Name :	021ICSA.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	537	590	547	558	5.08	cps
Ytterbium	172-1	123	173	167	154	17.58	cps
Ytterbium	172-2	83	50	70	68	24.75	cps
Ytterbium	176-1	2590	2497	2634	2574	2.71	cps
Ytterbium	176-2	687	667	717	690	3.65	cps
Yttrium	89-1	30710034	30023895	30533012	30422314	1.17	cps
Yttrium	89-2	2177861	2190228	2159100	2175730	0.72	cps
Zinc	66-2	9733	9467	9547	9582	1.43	cps
Zirconium	90-1	2214	2397	2794	2468	12.02	cps
Zirconium	91-1	463	523	527	504	7.07	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	6744900	6720756	6897753	6787803	1.41	cps
Antimony	121-1	510353	515955	510895	512401	0.60	cps
Arsenic	75-2	9400	9487	9740	9542	1.85	cps
Barium	135-1	125818	124751	123547	124706	0.91	cps
Barium	137-1	216183	217344	217659	217062	0.36	cps
Beryllium	9-1	110561	112111	109637	110770	1.13	cps
Bismuth	209-1	11042705	11217942	10947992	11069546	1.24	cps
Bismuth	209-2	4915803	4830985	4863745	4870178	0.88	cps
Bromine	81-1	32909	33483	31485	32626	3.15	cps
Cadmium	108-1	13904	14127	14127	14053	0.92	cps
Cadmium	106-1	19975	20879	20318	20391	2.24	cps
Cadmium	111-1	126501	128652	125861	127005	1.15	cps
Calcium	43-1	7558270	7673439	7631772	7621160	0.77	cps
Calcium	44-1	122458978	124516551	123871721	123615750	0.85	cps
Carbon	12-1	46601991	47740124	47797319	47379812	1.42	cps
Carbon	12-2	309829	312008	307844	309894	0.67	cps
Chlorine	35-1	106841242	111998445	113442138	110760608	3.13	cps
Chlorine	35-2	429104	428715	432042	429954	0.42	cps
Chromium	52-2	183204	179944	183283	182144	1.05	cps
Cobalt	59-2	185573	185267	185800	185546	0.14	cps
Copper	63-2	189912	186302	189386	188533	1.03	cps
Dysprosium	156-1	190	160	157	169	10.87	cps
Dysprosium	156-2	33	43	33	37	15.75	cps
Erbium	164-1	213	217	170	200	13.02	cps
Erbium	164-2	63	87	43	64	33.66	cps
Gadolinium	160-1	197	227	227	217	7.99	cps
Gadolinium	160-2	53	83	73	70	21.82	cps
Holmium	165-1	19977911	20302513	19552902	19944442	1.88	cps
Holmium	165-2	7210041	7170309	7261707	7214019	0.64	cps
Indium	115-1	16946350	16913505	16529887	16796581	1.38	cps
Indium	115-2	1715775	1706332	1695601	1705902	0.59	cps
Iron	54-2	18709131	18405318	18634078	18582842	0.85	cps
Iron	56-2	344630835	344213995	344258155	344367662	0.07	cps
Iron	57-2	8691040	8836709	8838367	8788705	0.96	cps
Krypton	83-1	287	333	277	299	10.12	cps
Lead	206-1	401175	412705	398158	404012	1.90	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	337853	338085	338302	338080	0.07	cps
Lead	208-1	1552929	1583876	1556355	1564386	1.08	cps
Lithium	6-1	5255070	5148211	5269886	5224389	1.27	cps
Magnesium	24-2	24543800	24374132	25121288	24679740	1.59	cps
Manganese	55-2	53921	53536	53155	53538	0.72	cps
Molybdenum	94-1	14248091	14301179	14053339	14200869	0.92	cps
Molybdenum	95-1	25101173	25437502	24775345	25104673	1.32	cps
Molybdenum	96-1	26760825	27313165	26335211	26803067	1.83	cps
Molybdenum	97-1	15355787	15821099	15306967	15494618	1.83	cps
Molybdenum	98-1	40258064	40889011	40002393	40383156	1.13	cps
Neodymium	150-1	127	130	143	133	6.62	cps
Neodymium	150-2	20	33	40	31	32.73	cps
Nickel	60-2	59520	60418	59915	59951	0.75	cps
Phosphorus	31-2	362068	363640	365463	363724	0.47	cps
Potassium	39-2	16129842	16135720	16289809	16185124	0.56	cps
Rhodium	103-1	15081042	15462530	15054018	15199197	1.50	cps
Rhodium	103-2	5895645	5940557	5923037	5919746	0.38	cps
Scandium	45-1	10996856	10992434	10842558	10943949	0.80	cps
Scandium	45-2	189648	187675	188304	188542	0.53	cps
Selenium	82-1	7542	7702	7596	7613	1.07	cps
Selenium	77-2	140	97	130	122	18.56	cps
Selenium	78-2	437	423	460	440	4.22	cps
Silicon	28-1	808636	820458	800995	810030	1.21	cps
Silver	107-1	564934	577810	566954	569899	1.22	cps
Silver	109-1	540128	545567	547026	544240	0.67	cps
Sodium	23-2	51744604	51899261	53028281	52224049	1.34	cps
Strontium	86-1	267997	272179	266770	268982	1.05	cps
Strontium	88-1	2491314	2500142	2453467	2481641	1.00	cps
Sulfur	34-1	9548602	9610265	9602973	9587280	0.35	cps
Terbium	159-1	20937306	20935909	20633858	20835691	0.84	cps
Terbium	159-2	7013196	7019766	6924125	6985696	0.76	cps
Thallium	203-1	412803	411439	416651	413631	0.65	cps
Thallium	205-1	979260	984339	986510	983370	0.38	cps
Tin	118-1	8143	7932	7936	8004	1.50	cps
Titanium	47-1	7161886	7095646	6972812	7076781	1.36	cps
Uranium	238-1	1840	1820	2044	1901	6.50	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	ICSAB1	Instrumnet Name :	P8
Client Sample ID :	ICSAB1	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:29:03	DataFile Name :	023ICSB.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	70178	69444	69665	69762	0.54	cps
Ytterbium	172-1	107	153	183	148	26.14	cps
Ytterbium	172-2	60	73	60	64	11.94	cps
Ytterbium	176-1	2620	2494	2607	2574	2.70	cps
Ytterbium	176-2	703	753	697	718	4.31	cps
Yttrium	89-1	31339279	31762757	31278903	31460313	0.84	cps
Yttrium	89-2	2239502	2185218	2225319	2216680	1.27	cps
Zinc	66-2	23767	23146	23473	23462	1.32	cps
Zirconium	90-1	2087	2077	2177	2114	2.61	cps
Zirconium	91-1	510	570	567	549	6.14	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3581755	3726994	3604069	3637606	2.15	cps
Antimony	121-1	12125837	12159351	12287209	12190799	0.70	cps
Arsenic	75-2	230560	229972	229019	229850	0.34	cps
Barium	135-1	14411172	14426768	14612168	14483369	0.77	cps
Barium	137-1	24868295	24995511	25136086	24999964	0.54	cps
Beryllium	9-1	2408699	2488194	2512421	2469771	2.20	cps
Bismuth	209-1	10281208	10297547	10525574	10368110	1.32	cps
Bismuth	209-2	4629200	4584080	4579488	4597589	0.60	cps
Bromine	81-1	28916	28796	28198	28637	1.34	cps
Cadmium	108-1	219843	227754	225742	224446	1.83	cps
Cadmium	106-1	325287	332139	331426	329617	1.14	cps
Cadmium	111-1	2944854	2995446	2984267	2974856	0.89	cps
Calcium	43-1	18484852	18388358	18743672	18538961	0.99	cps
Calcium	44-1	302713822	300266876	309664875	304215191	1.60	cps
Carbon	12-1	4159511	4174543	4206350	4180134	0.57	cps
Carbon	12-2	31721	31567	30976	31421	1.25	cps
Chlorine	35-1	3583183	3389068	3203368	3391873	5.60	cps
Chlorine	35-2	10611	10521	9707	10279	4.84	cps
Chromium	52-2	2326092	2325874	2338929	2330298	0.32	cps
Cobalt	59-2	4245153	4282716	4266264	4264711	0.44	cps
Copper	63-2	32660932	32511188	32191636	32454585	0.74	cps
Dysprosium	156-1	720	747	750	739	2.23	cps
Dysprosium	156-2	173	173	140	162	11.87	cps
Erbium	164-1	720	710	710	713	0.81	cps
Erbium	164-2	267	253	253	258	2.99	cps
Gadolinium	160-1	520	617	543	560	9.01	cps
Gadolinium	160-2	213	200	147	187	18.90	cps
Holmium	165-1	18515273	18937876	18447006	18633385	1.43	cps
Holmium	165-2	6980070	6963686	6842771	6928842	1.08	cps
Indium	115-1	15269721	15123057	15390208	15260995	0.88	cps
Indium	115-2	1465807	1484714	1464283	1471602	0.77	cps
Iron	54-2	22922818	22923563	22853707	22900029	0.18	cps
Iron	56-2	426721247	422008114	427214100	425314487	0.68	cps
Iron	57-2	10687797	10597566	10815024	10700129	1.02	cps
Krypton	83-1	310	373	307	330	11.38	cps
Lead	206-1	40281351	41658740	41390208	41110100	1.78	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	34466515	35275239	35185490	34975748	1.27	cps
Lead	208-1	159645643	162895468	164951603	162497571	1.65	cps
Lithium	6-1	4880634	4896848	4980650	4919377	1.09	cps
Magnesium	24-2	64221794	63459841	63263096	63648243	0.80	cps
Manganese	55-2	9539054	9569229	9702855	9603713	0.91	cps
Molybdenum	94-1	41807882	42597774	44110951	42838869	2.73	cps
Molybdenum	95-1	60838259	61586652	63017432	61814115	1.79	cps
Molybdenum	96-1	66122369	67309506	68646304	67359393	1.87	cps
Molybdenum	97-1	37918927	38170377	38991299	38360201	1.46	cps
Molybdenum	98-1	98620235	99059662	100489632	99389843	0.98	cps
Neodymium	150-1	1157	1277	1323	1252	6.87	cps
Neodymium	150-2	93	103	93	97	5.97	cps
Nickel	60-2	1103903	1103784	1106317	1104668	0.13	cps
Phosphorus	31-2	36162	35604	35066	35610	1.54	cps
Potassium	39-2	20351825	20744423	20487456	20527901	0.97	cps
Rhodium	103-1	13692212	13633610	13715187	13680337	0.31	cps
Rhodium	103-2	5463378	5519335	5456464	5479726	0.63	cps
Scandium	45-1	10156569	10114760	10399230	10223520	1.50	cps
Scandium	45-2	178331	181177	181431	180313	0.95	cps
Selenium	82-1	173955	175235	174097	174429	0.40	cps
Selenium	77-2	2867	2817	2740	2808	2.27	cps
Selenium	78-2	9967	9620	9530	9706	2.38	cps
Silicon	28-1	54919881	53995469	55621831	54845727	1.49	cps
Silver	107-1	14418149	14634322	14454888	14502453	0.80	cps
Silver	109-1	13876435	13740032	13868623	13828363	0.55	cps
Sodium	23-2	127878871	126661765	125857235	126799290	0.80	cps
Strontium	86-1	4006626	4014498	3976882	3999335	0.50	cps
Strontium	88-1	34196241	35047044	35521119	34921468	1.92	cps
Sulfur	34-1	1418020	1372678	1403726	1398141	1.66	cps
Terbium	159-1	19812349	19577026	19773691	19721022	0.64	cps
Terbium	159-2	6703153	6709084	6634977	6682405	0.62	cps
Thallium	203-1	9888188	10185853	10138787	10070943	1.59	cps
Thallium	205-1	23775990	24006810	24389740	24057513	1.29	cps
Tin	118-1	9785620	9789720	9948751	9841364	0.95	cps
Titanium	47-1	16606632	16839414	17035706	16827251	1.28	cps
Uranium	238-1	30914724	31688401	32450688	31684604	2.42	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV01	Instrumnet Name :	P8
Client Sample ID :	CCV01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:32:52	DataFile Name :	024CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1773250	1748789	1805224	1775755	1.59	cps
Ytterbium	172-1	937	877	993	936	6.24	cps
Ytterbium	172-2	350	397	413	387	8.49	cps
Ytterbium	176-1	50486	52634	51741	51620	2.09	cps
Ytterbium	176-2	19438	18730	19655	19274	2.51	cps
Yttrium	89-1	28991962	29270343	29214655	29158987	0.51	cps
Yttrium	89-2	2060470	2126207	2009355	2065344	2.84	cps
Zinc	66-2	3634685	3642723	3674978	3650795	0.58	cps
Zirconium	90-1	21153184	21503143	21812994	21489774	1.54	cps
Zirconium	91-1	4747710	4872848	4842133	4820897	1.35	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	537	610	640	596	8.93	cps
Antimony	121-1	750	697	623	690	9.22	cps
Arsenic	75-2	7	3	3	4	43.40	cps
Barium	135-1	183	167	193	181	7.44	cps
Barium	137-1	310	383	343	346	10.62	cps
Beryllium	9-1	146	132	160	146	9.40	cps
Bismuth	209-1	12355634	12322662	12195641	12291312	0.69	cps
Bismuth	209-2	5368495	5409199	5412116	5396603	0.45	cps
Bromine	81-1	28462	28315	29027	28601	1.31	cps
Cadmium	108-1	50	47	20	39	42.28	cps
Cadmium	106-1	11031	10698	9974	10567	5.12	cps
Cadmium	111-1	7757	7506	7008	7423	5.14	cps
Calcium	43-1	1027	940	840	936	9.99	cps
Calcium	44-1	26211	26692	26312	26405	0.96	cps
Carbon	12-1	3755550	3651275	3631469	3679432	1.81	cps
Carbon	12-2	23549	23302	23702	23518	0.86	cps
Chlorine	35-1	845282	822673	795869	821275	3.01	cps
Chlorine	35-2	2630	2737	2640	2669	2.21	cps
Chromium	52-2	1060	1080	1147	1096	4.14	cps
Cobalt	59-2	150	153	143	149	3.42	cps
Copper	63-2	1533	1467	1493	1498	2.24	cps
Dysprosium	156-1	60	27	57	48	38.42	cps
Dysprosium	156-2	10	0	7	6	91.64	cps
Erbium	164-1	130	197	140	156	23.11	cps
Erbium	164-2	43	60	60	54	17.68	cps
Gadolinium	160-1	157	97	153	136	24.88	cps
Gadolinium	160-2	17	17	30	21	36.45	cps
Holmium	165-1	20347786	20385436	20170388	20301203	0.57	cps
Holmium	165-2	7426843	7445296	7295343	7389161	1.11	cps
Indium	115-1	17563356	17528696	17230979	17441010	1.05	cps
Indium	115-2	1800444	1850666	1796084	1815731	1.67	cps
Iron	54-2	660	700	730	697	5.04	cps
Iron	56-2	9103	8950	8879	8977	1.27	cps
Iron	57-2	203	267	250	240	13.68	cps
Krypton	83-1	223	283	267	258	12.01	cps
Lead	206-1	1437	1440	1390	1422	1.97	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1343	1193	1190	1242	7.05	cps
Lead	208-1	5731	5901	5507	5713	3.45	cps
Lithium	6-1	5646294	5627722	5610246	5628087	0.32	cps
Magnesium	24-2	807	737	653	732	10.48	cps
Manganese	55-2	2057	2020	2003	2027	1.35	cps
Molybdenum	94-1	1060	983	977	1007	4.60	cps
Molybdenum	95-1	517	550	520	529	3.47	cps
Molybdenum	96-1	830	813	693	779	9.57	cps
Molybdenum	97-1	353	300	307	320	9.08	cps
Molybdenum	98-1	867	700	813	793	10.73	cps
Neodymium	150-1	20	33	57	37	50.62	cps
Neodymium	150-2	0	7	0	2	173.21	cps
Nickel	60-2	253	233	237	241	4.44	cps
Phosphorus	31-2	90	83	110	94	14.70	cps
Potassium	39-2	13410	13426	13823	13553	1.73	cps
Rhodium	103-1	16575554	16439719	16645123	16553465	0.63	cps
Rhodium	103-2	6418594	6465116	6419784	6434498	0.41	cps
Scandium	45-1	11335864	11208962	11264568	11269798	0.56	cps
Scandium	45-2	191320	191924	190019	191088	0.51	cps
Selenium	82-1	-17	33	17	11	229.16	cps
Selenium	77-2	0	0	3	1	173.21	cps
Selenium	78-2	10	10	27	16	61.87	cps
Silicon	28-1	438149	436853	431019	435340	0.87	cps
Silver	107-1	590	527	510	542	7.78	cps
Silver	109-1	340	443	380	388	13.44	cps
Sodium	23-2	32630	32613	32282	32508	0.60	cps
Strontium	86-1	500	503	467	490	4.14	cps
Strontium	88-1	560	577	577	571	1.68	cps
Sulfur	34-1	534693	531195	530919	532269	0.40	cps
Terbium	159-1	20997632	21425468	21385069	21269390	1.11	cps
Terbium	159-2	7079329	7225957	7198347	7167877	1.09	cps
Thallium	203-1	593	587	583	588	0.87	cps
Thallium	205-1	1540	1633	1537	1570	3.50	cps
Tin	118-1	4781	4454	4531	4589	3.72	cps
Titanium	47-1	577	600	440	539	16.04	cps
Uranium	238-1	217	137	240	198	27.40	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB01	Instrumnet Name :	P8
Client Sample ID :	CCB01	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:40:54	DataFile Name :	025CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20	27	30	26	19.92	cps
Ytterbium	172-1	130	140	70	113	33.41	cps
Ytterbium	172-2	60	67	73	67	10.00	cps
Ytterbium	176-1	2704	2857	2697	2753	3.29	cps
Ytterbium	176-2	810	740	770	773	4.54	cps
Yttrium	89-1	31142195	32106483	32393551	31880743	2.06	cps
Yttrium	89-2	2217712	2204794	2225203	2215903	0.47	cps
Zinc	66-2	417	427	383	409	5.55	cps
Zirconium	90-1	2174	2147	2244	2188	2.28	cps
Zirconium	91-1	430	440	407	426	4.02	cps

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On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1720	1817	1813	1783	3.08	cps
Antimony	121-1	54240	55087	54060	54462	1.01	cps
Arsenic	75-2	553	543	587	561	4.04	cps
Barium	135-1	65310	64931	65286	65176	0.33	cps
Barium	137-1	113040	112902	115235	113726	1.15	cps
Beryllium	9-1	6438	6584	6427	6483	1.36	cps
Bismuth	209-1	12375628	12121802	12050894	12182775	1.40	cps
Bismuth	209-2	5395184	5335419	5384934	5371846	0.59	cps
Bromine	81-1	28686	29284	29107	29026	1.06	cps
Cadmium	108-1	557	560	620	579	6.16	cps
Cadmium	106-1	11668	10854	11345	11289	3.63	cps
Cadmium	111-1	15040	14221	14739	14667	2.82	cps
Calcium	43-1	44525	44141	44733	44466	0.68	cps
Calcium	44-1	729432	739225	736095	734917	0.68	cps
Carbon	12-1	3653291	3574231	3597705	3608409	1.13	cps
Carbon	12-2	23829	23766	22895	23497	2.22	cps
Chlorine	35-1	369445	365174	359175	364598	1.42	cps
Chlorine	35-2	1260	1243	1113	1206	6.66	cps
Chromium	52-2	11391	11525	11668	11528	1.20	cps
Cobalt	59-2	11018	11011	10631	10886	2.03	cps
Copper	63-2	18175	18352	18228	18252	0.50	cps
Dysprosium	156-1	77	70	67	71	7.16	cps
Dysprosium	156-2	7	13	3	8	65.47	cps
Erbium	164-1	153	113	110	126	19.21	cps
Erbium	164-2	57	50	53	53	6.25	cps
Gadolinium	160-1	130	163	120	138	16.47	cps
Gadolinium	160-2	40	20	27	29	35.25	cps
Holmium	165-1	20295699	19197040	19819651	19770797	2.79	cps
Holmium	165-2	7382418	7449932	7422169	7418173	0.46	cps
Indium	115-1	17552512	17228826	17357340	17379559	0.94	cps
Indium	115-2	1825171	1804714	1779847	1803244	1.26	cps
Iron	54-2	11725	12022	12135	11961	1.77	cps
Iron	56-2	208238	209983	207422	208548	0.63	cps
Iron	57-2	5188	5204	5111	5168	0.96	cps
Krypton	83-1	247	323	250	273	15.85	cps
Lead	206-1	19295	19845	20139	19760	2.17	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	16751	17412	17455	17206	2.29	cps
Lead	208-1	78645	79024	79749	79140	0.71	cps
Lithium	6-1	5742073	5364100	5525506	5543893	3.42	cps
Magnesium	24-2	154907	153111	154944	154321	0.68	cps
Manganese	55-2	4114	4277	4174	4188	1.97	cps
Molybdenum	94-1	56079	57096	56926	56700	0.96	cps
Molybdenum	95-1	68082	68139	68846	68356	0.62	cps
Molybdenum	96-1	75990	77062	76003	76352	0.81	cps
Molybdenum	97-1	42762	41816	43013	42530	1.48	cps
Molybdenum	98-1	110012	110902	110946	110620	0.48	cps
Neodymium	150-1	33	30	37	33	10.01	cps
Neodymium	150-2	0	10	3	4	114.60	cps
Nickel	60-2	3257	2997	3267	3174	4.82	cps
Phosphorus	31-2	223	247	207	226	8.91	cps
Potassium	39-2	104613	106422	104746	105260	0.96	cps
Rhodium	103-1	16837961	16031659	16115409	16328343	2.72	cps
Rhodium	103-2	6471469	6271483	6454754	6399235	1.73	cps
Scandium	45-1	11309212	10853547	10924212	11028990	2.22	cps
Scandium	45-2	192282	191502	192264	192016	0.23	cps
Selenium	82-1	2190	2150	2314	2218	3.84	cps
Selenium	77-2	60	40	33	44	31.23	cps
Selenium	78-2	133	87	143	121	24.97	cps
Silicon	28-1	548073	540081	545042	544399	0.74	cps
Silver	107-1	34343	34680	34908	34643	0.82	cps
Silver	109-1	32421	33237	33387	33015	1.57	cps
Sodium	23-2	327096	329264	329352	328571	0.39	cps
Strontium	86-1	9467	9507	9403	9459	0.55	cps
Strontium	88-1	77306	79689	79742	78912	1.76	cps
Sulfur	34-1	545651	551368	550069	549029	0.55	cps
Terbium	159-1	21088838	20756670	20529071	20791526	1.35	cps
Terbium	159-2	7238001	7139714	7248566	7208760	0.83	cps
Thallium	203-1	23511	24146	24009	23889	1.40	cps
Thallium	205-1	55866	55662	55863	55797	0.21	cps
Tin	118-1	114877	116604	113633	115038	1.30	cps
Titanium	47-1	19590	20114	20244	19983	1.73	cps
Uranium	238-1	71875	71976	72096	71982	0.15	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CRI	Instrumnet Name :	P8
Client Sample ID :	CRI	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:52:01	DataFile Name :	027LLCC.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	20398	20027	20118	20181	0.96	cps
Ytterbium	172-1	123	133	153	137	11.18	cps
Ytterbium	172-2	60	47	57	54	12.74	cps
Ytterbium	176-1	2750	2524	2780	2685	5.23	cps
Ytterbium	176-2	887	810	737	811	9.25	cps
Yttrium	89-1	31931917	30549363	31709767	31397016	2.36	cps
Yttrium	89-2	2232660	2263073	2232710	2242815	0.78	cps
Zinc	66-2	4707	5258	4924	4963	5.58	cps
Zirconium	90-1	48956	49206	50568	49577	1.75	cps
Zirconium	91-1	10748	11291	10984	11008	2.48	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1693	1610	1687	1663	2.78	cps
Antimony	121-1	247	237	277	253	8.22	cps
Arsenic	75-2	20	10	10	13	43.30	cps
Barium	135-1	3110	3000	3204	3105	3.28	cps
Barium	137-1	5438	5468	5134	5347	3.45	cps
Beryllium	9-1	97	112	116	109	9.12	cps
Bismuth	209-1	12583876	12474367	12423317	12493853	0.66	cps
Bismuth	209-2	5495042	5363666	5437859	5432189	1.21	cps
Bromine	81-1	27357	27511	28252	27706	1.73	cps
Cadmium	108-1	50	50	40	47	12.37	cps
Cadmium	106-1	10160	10864	10531	10519	3.35	cps
Cadmium	111-1	7131	7607	7370	7369	3.23	cps
Calcium	43-1	1347	1483	1477	1436	5.37	cps
Calcium	44-1	35498	35364	35876	35579	0.75	cps
Carbon	12-1	4145800	4427777	4511758	4361778	4.39	cps
Carbon	12-2	30285	30762	31176	30741	1.45	cps
Chlorine	35-1	330135	329434	323419	327663	1.13	cps
Chlorine	35-2	1197	1027	1110	1111	7.65	cps
Chromium	52-2	1653	1573	1607	1611	2.49	cps
Cobalt	59-2	263	167	243	224	22.73	cps
Copper	63-2	2144	2077	2184	2135	2.52	cps
Dysprosium	156-1	393	393	390	392	0.49	cps
Dysprosium	156-2	120	127	163	137	17.08	cps
Erbium	164-1	400	373	427	400	6.67	cps
Erbium	164-2	160	150	133	148	9.11	cps
Gadolinium	160-1	403	447	460	437	6.79	cps
Gadolinium	160-2	183	127	190	167	20.88	cps
Holmium	165-1	20478993	20608823	20204347	20430721	1.01	cps
Holmium	165-2	7542032	7322331	7526239	7463534	1.64	cps
Indium	115-1	18164398	18129404	17995085	18096296	0.49	cps
Indium	115-2	1881962	1777303	1823348	1827538	2.87	cps
Iron	54-2	4284	4094	4227	4202	2.32	cps
Iron	56-2	73428	74061	72660	73383	0.96	cps
Iron	57-2	1963	1820	1780	1855	5.20	cps
Krypton	83-1	257	283	257	266	5.80	cps
Lead	206-1	3751	3587	3467	3602	3.95	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3104	2977	3160	3080	3.05	cps
Lead	208-1	14620	14080	14360	14353	1.88	cps
Lithium	6-1	5856162	5662820	5804319	5774434	1.73	cps
Magnesium	24-2	1753	1740	1883	1792	4.42	cps
Manganese	55-2	2780	2664	2860	2768	3.57	cps
Molybdenum	94-1	533	570	707	603	15.14	cps
Molybdenum	95-1	257	210	197	221	14.25	cps
Molybdenum	96-1	417	347	323	362	13.41	cps
Molybdenum	97-1	157	157	117	143	16.11	cps
Molybdenum	98-1	387	347	413	382	8.78	cps
Neodymium	150-1	490	427	467	461	6.95	cps
Neodymium	150-2	130	123	143	132	7.70	cps
Nickel	60-2	2290	2034	2164	2162	5.94	cps
Phosphorus	31-2	83	87	100	90	9.80	cps
Potassium	39-2	14010	14481	14587	14359	2.14	cps
Rhodium	103-1	16786293	16985909	16979478	16917226	0.67	cps
Rhodium	103-2	6565775	6489287	6614083	6556382	0.96	cps
Scandium	45-1	11354277	11350952	11237424	11314218	0.59	cps
Scandium	45-2	195262	193850	192910	194007	0.61	cps
Selenium	82-1	50	-43	33	13	373.37	cps
Selenium	77-2	0	3	3	2	86.60	cps
Selenium	78-2	10	13	30	18	60.28	cps
Silicon	28-1	814037	811497	819796	815110	0.52	cps
Silver	107-1	1890	2004	1897	1930	3.30	cps
Silver	109-1	1623	1663	1683	1657	1.84	cps
Sodium	23-2	33455	33776	33699	33643	0.50	cps
Strontium	86-1	897	1090	1090	1026	10.88	cps
Strontium	88-1	5448	4858	5251	5185	5.80	cps
Sulfur	34-1	531304	532714	531903	531973	0.13	cps
Terbium	159-1	21774808	21467807	21576112	21606242	0.72	cps
Terbium	159-2	7345667	7194022	7207799	7249163	1.16	cps
Thallium	203-1	600	427	560	529	17.16	cps
Thallium	205-1	1527	1203	1100	1277	17.44	cps
Tin	118-1	4534	4521	4357	4471	2.20	cps
Titanium	47-1	1713	1743	1673	1710	2.05	cps
Uranium	238-1	403	337	363	368	9.12	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1769-08	Instrumnet Name :	P8
Client Sample ID :	EB01-040925	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:55:26	DataFile Name :	028AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	357	327	350	344	4.57	cps
Ytterbium	172-1	223	170	183	192	14.44	cps
Ytterbium	172-2	70	83	80	78	8.92	cps
Ytterbium	176-1	2770	2767	2590	2709	3.80	cps
Ytterbium	176-2	737	717	760	738	2.94	cps
Yttrium	89-1	32884984	32581275	32543465	32669908	0.57	cps
Yttrium	89-2	2265221	2274310	2272162	2270564	0.21	cps
Zinc	66-2	16326	16066	16076	16156	0.91	cps
Zirconium	90-1	1527	1353	1433	1438	6.03	cps
Zirconium	91-1	340	293	320	318	7.37	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5350035	5296851	5357446	5334777	0.62	cps
Antimony	121-1	8022	8096	7876	7998	1.40	cps
Arsenic	75-2	51571	51657	51233	51487	0.44	cps
Barium	135-1	2775709	2806687	2816941	2799779	0.77	cps
Barium	137-1	4835583	4770607	4856809	4821000	0.93	cps
Beryllium	9-1	19749	19912	19667	19776	0.63	cps
Bismuth	209-1	10825838	10662191	10743282	10743770	0.76	cps
Bismuth	209-2	4912117	4845985	4879101	4879068	0.68	cps
Bromine	81-1	41816	41625	42487	41976	1.08	cps
Cadmium	108-1	4591	4658	4681	4643	1.01	cps
Cadmium	106-1	35783	34710	35492	35328	1.57	cps
Cadmium	111-1	46861	46461	46617	46646	0.43	cps
Calcium	43-1	14891259	14871102	14890909	14884423	0.08	cps
Calcium	44-1	244352216	245386583	243135523	244291441	0.46	cps
Carbon	12-1	6165237	6350413	6416967	6310872	2.07	cps
Carbon	12-2	42822	42762	43100	42895	0.42	cps
Chlorine	35-1	1285895	1394772	1452475	1377714	6.14	cps
Chlorine	35-2	5731	5391	5624	5582	3.12	cps
Chromium	52-2	16550	16203	15669	16140	2.75	cps
Cobalt	59-2	2254575	2254658	2290321	2266518	0.91	cps
Copper	63-2	49540589	48546218	48242664	48776490	1.39	cps
Dysprosium	156-1	3776272	3837939	3881701	3831971	1.38	cps
Dysprosium	156-2	1262713	1256582	1263639	1260978	0.30	cps
Erbium	164-1	3269544	3296961	3301601	3289369	0.53	cps
Erbium	164-2	1093364	1101590	1101185	1098713	0.42	cps
Gadolinium	160-1	3580676	3605365	3701188	3629076	1.75	cps
Gadolinium	160-2	1471841	1485276	1479990	1479036	0.46	cps
Holmium	165-1	20988652	21058296	21407913	21151620	1.06	cps
Holmium	165-2	7936862	7982173	7934406	7951147	0.34	cps
Indium	115-1	16351716	16398227	16416423	16388789	0.20	cps
Indium	115-2	1739719	1708929	1696178	1714942	1.31	cps
Iron	54-2	122666878	122984538	123393038	123014818	0.30	cps
Iron	56-2	2257095593	2268972500	2247995593	2258021229	0.47	cps
Iron	57-2	57198934	57070991	57889816	57386580	0.77	cps
Krypton	83-1	4457	4604	4537	4533	1.62	cps
Lead	206-1	9434067	9380124	9684383	9499524	1.71	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	7948820	7841505	8016278	7935534	1.11	cps
Lead	208-1	37433397	37112018	37504992	37350135	0.56	cps
Lithium	6-1	5340134	5309314	5174670	5274706	1.67	cps
Magnesium	24-2	8822825	8887516	8879155	8863165	0.40	cps
Manganese	55-2	13037405	13258950	13338039	13211465	1.18	cps
Molybdenum	94-1	650550	660523	657739	656271	0.78	cps
Molybdenum	95-1	66773	67288	67218	67093	0.42	cps
Molybdenum	96-1	208251	213465	210356	210691	1.24	cps
Molybdenum	97-1	41452	41522	42134	41702	0.90	cps
Molybdenum	98-1	104597	106982	106461	106013	1.18	cps
Neodymium	150-1	4607689	4615911	4635565	4619721	0.31	cps
Neodymium	150-2	1134929	1133944	1133393	1134088	0.07	cps
Nickel	60-2	40160	40190	40217	40189	0.07	cps
Phosphorus	31-2	238590	237985	237362	237979	0.26	cps
Potassium	39-2	5757003	5725995	5653144	5712047	0.93	cps
Rhodium	103-1	14534193	14572861	14772407	14626487	0.87	cps
Rhodium	103-2	5852676	5868533	5831812	5851007	0.31	cps
Scandium	45-1	12143477	12105359	12104447	12117761	0.18	cps
Scandium	45-2	206408	206388	205958	206251	0.12	cps
Selenium	82-1	6490	6190	6490	6390	2.71	cps
Selenium	77-2	5274	5725	5404	5468	4.24	cps
Selenium	78-2	3584	3327	3580	3497	4.21	cps
Silicon	28-1	329256228	323040435	324016329	325437664	1.03	cps
Silver	107-1	48642	48906	48836	48795	0.28	cps
Silver	109-1	44408	45368	45970	45248	1.74	cps
Sodium	23-2	1295516	1314742	1315503	1308587	0.87	cps
Strontium	86-1	964636	970837	970296	968590	0.35	cps
Strontium	88-1	8718707	8874736	8906609	8833350	1.14	cps
Sulfur	34-1	962633	963091	953512	959745	0.56	cps
Terbium	159-1	22074247	22056188	22214266	22114901	0.39	cps
Terbium	159-2	7683831	7610600	7702755	7665729	0.63	cps
Thallium	203-1	35278	35318	34934	35176	0.60	cps
Thallium	205-1	83906	83976	84244	84042	0.21	cps
Tin	118-1	118818	118812	118947	118859	0.06	cps
Titanium	47-1	17469986	17488442	17198004	17385478	0.94	cps
Uranium	238-1	414694	425408	426519	422207	1.55	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 16:58:48	DataFile Name :	029AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	224729	224328	223594	224217	0.26	cps
Ytterbium	172-1	751382	761382	767062	759942	1.04	cps
Ytterbium	172-2	332968	335629	336616	335071	0.56	cps
Ytterbium	176-1	467500	472887	474565	471651	0.78	cps
Ytterbium	176-2	212879	213708	212590	213059	0.27	cps
Yttrium	89-1	79484287	79982072	81448667	80305009	1.27	cps
Yttrium	89-2	5756130	5695770	5719241	5723713	0.53	cps
Zinc	66-2	1398701	1382161	1388650	1389837	0.60	cps
Zirconium	90-1	1762165	1781476	1794580	1779407	0.92	cps
Zirconium	91-1	372527	378236	379122	376629	0.95	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	5493041	5437370	5525323	5485245	0.81	cps
Antimony	121-1	7942	8116	8009	8022	1.09	cps
Arsenic	75-2	53173	52129	52491	52598	1.01	cps
Barium	135-1	2936406	2958958	2852436	2915933	1.93	cps
Barium	137-1	4960117	4966725	4993333	4973391	0.35	cps
Beryllium	9-1	19925	20331	20069	20108	1.03	cps
Bismuth	209-1	10824646	10889260	10794371	10836092	0.45	cps
Bismuth	209-2	4933445	4923570	4845000	4900672	0.99	cps
Bromine	81-1	41124	42401	42491	42005	1.82	cps
Cadmium	108-1	4674	4738	4858	4756	1.96	cps
Cadmium	106-1	35185	36050	35743	35659	1.23	cps
Cadmium	111-1	47429	47937	46689	47352	1.32	cps
Calcium	43-1	15043765	15219822	15184077	15149222	0.61	cps
Calcium	44-1	243290123	248828903	246316176	246145067	1.13	cps
Carbon	12-1	6107338	6480251	6663321	6416970	4.42	cps
Carbon	12-2	43614	43387	44140	43714	0.88	cps
Chlorine	35-1	1371802	1464338	1503341	1446494	4.67	cps
Chlorine	35-2	5604	5705	5781	5697	1.56	cps
Chromium	52-2	15912	15432	16533	15959	3.46	cps
Cobalt	59-2	2354594	2299422	2294748	2316254	1.44	cps
Copper	63-2	48645536	48779786	48807566	48744296	0.18	cps
Dysprosium	156-1	3867999	3944296	3935179	3915825	1.06	cps
Dysprosium	156-2	1263787	1273896	1272918	1270200	0.44	cps
Erbium	164-1	3317161	3378422	3431619	3375734	1.70	cps
Erbium	164-2	1115440	1116755	1117884	1116693	0.11	cps
Gadolinium	160-1	3724947	3696614	3712412	3711324	0.38	cps
Gadolinium	160-2	1484777	1481137	1494679	1486864	0.47	cps
Holmium	165-1	21313971	21303593	21543418	21386994	0.63	cps
Holmium	165-2	7883018	7840071	7917744	7880278	0.49	cps
Indium	115-1	16700234	16306021	16313954	16440070	1.37	cps
Indium	115-2	1679598	1705556	1688919	1691358	0.78	cps
Iron	54-2	125287418	125312398	125281508	125293775	0.01	cps
Iron	56-2	2342202472	2342249085	2317216339	2333889299	0.62	cps
Iron	57-2	58770392	58697814	58448581	58638929	0.29	cps
Krypton	83-1	4657	4484	4634	4592	2.05	cps
Lead	206-1	9679445	9898579	9930587	9836204	1.39	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8153646	8228068	8359192	8246968	1.26	cps
Lead	208-1	38236463	38620136	38813085	38556561	0.76	cps
Lithium	6-1	5345361	5337641	5404957	5362653	0.69	cps
Magnesium	24-2	9112901	9239542	9163878	9172107	0.69	cps
Manganese	55-2	13563424	13446245	13364897	13458189	0.74	cps
Molybdenum	94-1	668694	677241	675376	673770	0.67	cps
Molybdenum	95-1	67486	68702	68588	68259	0.98	cps
Molybdenum	96-1	210797	215283	214987	213689	1.17	cps
Molybdenum	97-1	42003	41752	42445	42067	0.83	cps
Molybdenum	98-1	106027	108913	106569	107170	1.43	cps
Neodymium	150-1	4675853	4680615	4777172	4711213	1.21	cps
Neodymium	150-2	1133380	1138904	1136960	1136415	0.25	cps
Nickel	60-2	40173	40885	40300	40453	0.94	cps
Phosphorus	31-2	239313	238826	238886	239008	0.11	cps
Potassium	39-2	5657769	5838572	5678561	5724967	1.73	cps
Rhodium	103-1	14500199	14407083	14617995	14508426	0.73	cps
Rhodium	103-2	5770377	5773335	5709958	5751223	0.62	cps
Scandium	45-1	12117316	11965279	12052336	12044977	0.63	cps
Scandium	45-2	206188	206032	205423	205881	0.20	cps
Selenium	82-1	6230	6700	6230	6387	4.25	cps
Selenium	77-2	5598	5748	5534	5627	1.95	cps
Selenium	78-2	3544	3410	3450	3468	1.97	cps
Silicon	28-1	333656282	333885168	340240515	335927322	1.11	cps
Silver	107-1	48562	48926	51121	49536	2.79	cps
Silver	109-1	44766	45849	46732	45782	2.15	cps
Sodium	23-2	1344063	1355060	1332993	1344038	0.82	cps
Strontium	86-1	972666	988823	985507	982332	0.87	cps
Strontium	88-1	8930756	8957239	9019818	8969271	0.51	cps
Sulfur	34-1	942837	947879	953384	948034	0.56	cps
Terbium	159-1	22491531	22273125	22715357	22493337	0.98	cps
Terbium	159-2	7571366	7516857	7655053	7581092	0.92	cps
Thallium	203-1	35763	36180	36394	36112	0.89	cps
Thallium	205-1	84137	85556	87237	85643	1.81	cps
Tin	118-1	118173	125037	119630	120947	2.99	cps
Titanium	47-1	17798814	17866352	17723765	17796310	0.40	cps
Uranium	238-1	430716	441064	435982	435921	1.19	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUP	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUP	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:01:48	DataFile Name :	030AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	229068	230509	229771	229783	0.31	cps
Ytterbium	172-1	768617	788493	795197	784102	1.76	cps
Ytterbium	172-2	336689	338106	338214	337670	0.25	cps
Ytterbium	176-1	479136	487135	483987	483419	0.83	cps
Ytterbium	176-2	213952	214660	213796	214136	0.22	cps
Yttrium	89-1	81409154	80996114	81602590	81335953	0.38	cps
Yttrium	89-2	5820185	5684400	5687064	5730550	1.35	cps
Zinc	66-2	1404583	1397281	1406661	1402842	0.35	cps
Zirconium	90-1	1822029	1814231	1830361	1822207	0.44	cps
Zirconium	91-1	377510	383197	387058	382588	1.26	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1111032	1098605	1092488	1100708	0.86	cps
Antimony	121-1	2804	2574	2840	2739	5.28	cps
Arsenic	75-2	10210	10020	10484	10238	2.28	cps
Barium	135-1	541303	546318	541564	543062	0.52	cps
Barium	137-1	942403	954336	944580	947106	0.67	cps
Beryllium	9-1	4238	4239	4359	4278	1.63	cps
Bismuth	209-1	12008775	11734584	11897195	11880185	1.16	cps
Bismuth	209-2	5160717	5249123	5140848	5183563	1.11	cps
Bromine	81-1	30790	30266	30697	30585	0.91	cps
Cadmium	108-1	893	1033	977	968	7.28	cps
Cadmium	106-1	14978	15058	15569	15202	2.11	cps
Cadmium	111-1	14920	14978	15516	15138	2.17	cps
Calcium	43-1	3078287	3086613	3055058	3073319	0.53	cps
Calcium	44-1	50133488	50078138	50036506	50082710	0.10	cps
Carbon	12-1	4480769	4429172	4403279	4437740	0.89	cps
Carbon	12-2	28274	28381	28057	28237	0.58	cps
Chlorine	35-1	525961	537225	536346	533177	1.17	cps
Chlorine	35-2	1953	1757	1953	1888	6.02	cps
Chromium	52-2	4151	4064	4077	4097	1.14	cps
Cobalt	59-2	439293	441272	440753	440439	0.23	cps
Copper	63-2	10227175	10235515	10117048	10193246	0.65	cps
Dysprosium	156-1	722281	742473	736574	733776	1.41	cps
Dysprosium	156-2	249251	253628	249066	250648	1.03	cps
Erbium	164-1	622347	636679	628345	629124	1.14	cps
Erbium	164-2	219719	219801	219359	219626	0.11	cps
Gadolinium	160-1	696257	696358	699797	697471	0.29	cps
Gadolinium	160-2	290191	296094	294614	293633	1.05	cps
Holmium	165-1	20541346	20709561	20193364	20481424	1.29	cps
Holmium	165-2	7429207	7489424	7393816	7437482	0.65	cps
Indium	115-1	16984817	17189095	17370081	17181331	1.12	cps
Indium	115-2	1758154	1733212	1714720	1735362	1.26	cps
Iron	54-2	25000590	25270044	24902494	25057709	0.76	cps
Iron	56-2	461692940	463871246	464996473	463520220	0.36	cps
Iron	57-2	11894846	11807689	11724588	11809041	0.72	cps
Krypton	83-1	983	1137	1123	1081	7.86	cps
Lead	206-1	2068034	2076916	2119925	2088291	1.33	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1741736	1736721	1731797	1736751	0.29	cps
Lead	208-1	8171613	8120923	8209349	8167295	0.54	cps
Lithium	6-1	5412929	5591737	5609933	5538200	1.97	cps
Magnesium	24-2	1911727	1914735	1896562	1907675	0.51	cps
Manganese	55-2	2705632	2740358	2660132	2702041	1.49	cps
Molybdenum	94-1	129402	131777	131044	130741	0.93	cps
Molybdenum	95-1	13744	13323	13457	13508	1.59	cps
Molybdenum	96-1	41619	42324	41993	41979	0.84	cps
Molybdenum	97-1	8273	8616	8459	8449	2.04	cps
Molybdenum	98-1	20679	21427	21029	21045	1.78	cps
Neodymium	150-1	892789	910959	914705	906151	1.29	cps
Neodymium	150-2	222473	226794	227025	225431	1.14	cps
Nickel	60-2	8646	8693	8623	8654	0.41	cps
Phosphorus	31-2	49297	48598	48875	48923	0.72	cps
Potassium	39-2	1130391	1124138	1125709	1126746	0.29	cps
Rhodium	103-1	15584114	15607871	15646070	15612685	0.20	cps
Rhodium	103-2	6041881	6131425	6059296	6077534	0.78	cps
Scandium	45-1	11227881	11222057	11161553	11203830	0.33	cps
Scandium	45-2	191882	190454	188966	190434	0.77	cps
Selenium	82-1	1424	1184	1420	1342	10.25	cps
Selenium	77-2	1137	1123	1227	1162	4.84	cps
Selenium	78-2	723	730	767	740	3.15	cps
Silicon	28-1	67942136	67046396	68133354	67707295	0.86	cps
Silver	107-1	10334	10918	10918	10723	3.14	cps
Silver	109-1	9957	9860	10050	9956	0.95	cps
Sodium	23-2	292307	290129	291364	291267	0.38	cps
Strontium	86-1	195833	199549	197599	197660	0.94	cps
Strontium	88-1	1818524	1821402	1812969	1817632	0.24	cps
Sulfur	34-1	587381	592679	592311	590790	0.50	cps
Terbium	159-1	21176980	21302675	21346573	21275409	0.41	cps
Terbium	159-2	7183748	7131922	7140535	7152068	0.39	cps
Thallium	203-1	7806	7542	7806	7718	1.97	cps
Thallium	205-1	18470	18517	19204	18730	2.20	cps
Tin	118-1	27925	29035	27221	28061	3.26	cps
Titanium	47-1	3526932	3550161	3469193	3515429	1.19	cps
Uranium	238-1	89687	90341	91312	90447	0.90	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066L	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:04:51	DataFile Name :	031AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	44746	43559	43987	44098	1.36	cps
Ytterbium	172-1	156719	159180	160081	158660	1.10	cps
Ytterbium	172-2	66677	67075	67008	66920	0.32	cps
Ytterbium	176-1	99034	99925	99945	99634	0.52	cps
Ytterbium	176-2	42849	43063	43070	42994	0.29	cps
Yttrium	89-1	41580769	41478070	41956883	41671907	0.60	cps
Yttrium	89-2	2849491	2878007	2926897	2884798	1.36	cps
Zinc	66-2	288872	289150	289163	289062	0.06	cps
Zirconium	90-1	335351	339185	337185	337240	0.57	cps
Zirconium	91-1	74484	75332	75128	74981	0.59	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2599539	2615626	2583627	2599598	0.62	cps
Antimony	121-1	12116276	12171169	12131719	12139721	0.23	cps
Arsenic	75-2	22869	23209	22134	22737	2.42	cps
Barium	135-1	14191191	14525814	14725735	14480914	1.87	cps
Barium	137-1	25156086	24980769	25105659	25080838	0.36	cps
Beryllium	9-1	2557953	2516993	2580835	2551927	1.27	cps
Bismuth	209-1	11356279	11139685	11148539	11214834	1.09	cps
Bismuth	209-2	4945390	4849376	4870073	4888280	1.03	cps
Bromine	81-1	34740	35164	35515	35140	1.11	cps
Cadmium	108-1	215878	221912	219232	219007	1.38	cps
Cadmium	106-1	345892	350612	349534	348679	0.71	cps
Cadmium	111-1	2988923	2993859	3004966	2995916	0.27	cps
Calcium	43-1	11545519	11737682	11808166	11697122	1.16	cps
Calcium	44-1	188439744	189299191	192874864	190204599	1.24	cps
Carbon	12-1	5340789	5775400	5943793	5686661	5.47	cps
Carbon	12-2	40920	42180	41585	41562	1.52	cps
Chlorine	35-1	76579969	82380317	84466495	81142260	5.04	cps
Chlorine	35-2	328581	326611	329204	328132	0.41	cps
Chromium	52-2	2295166	2209646	2265561	2256791	1.92	cps
Cobalt	59-2	5237494	5184206	5236024	5219241	0.58	cps
Copper	63-2	59244447	59350401	58742321	59112390	0.55	cps
Dysprosium	156-1	2272240	2260330	2262604	2265058	0.28	cps
Dysprosium	156-2	708785	717409	715366	713854	0.63	cps
Erbium	164-1	1811056	1902928	1913553	1875846	3.00	cps
Erbium	164-2	614552	615222	609922	613232	0.47	cps
Gadolinium	160-1	2080931	2150516	2147543	2126330	1.85	cps
Gadolinium	160-2	835218	836556	830996	834257	0.35	cps
Holmium	165-1	21029903	21082759	20901853	21004838	0.44	cps
Holmium	165-2	7613960	7574726	7471267	7553318	0.98	cps
Indium	115-1	16865779	16225215	16286286	16459094	2.15	cps
Indium	115-2	1630038	1647894	1636357	1638096	0.55	cps
Iron	54-2	49363458	48820823	48625901	48936727	0.78	cps
Iron	56-2	895839267	897647480	890143373	894543373	0.44	cps
Iron	57-2	23022772	22601214	22644084	22756023	1.02	cps
Krypton	83-1	2574	2570	2680	2608	2.40	cps
Lead	206-1	47458699	48389571	47987481	47945250	0.97	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	42065286	41498521	41914009	41825939	0.70	cps
Lead	208-1	192086864	191082217	193346661	192171914	0.59	cps
Lithium	6-1	5306914	5320593	5250229	5292579	0.70	cps
Magnesium	24-2	16426837	16513066	16258866	16399589	0.79	cps
Manganese	55-2	15163791	14543689	14764873	14824118	2.12	cps
Molybdenum	94-1	20051025	20423027	20730781	20401611	1.67	cps
Molybdenum	95-1	21806889	22287517	22325403	22139936	1.31	cps
Molybdenum	96-1	24667875	25314635	25437662	25140057	1.64	cps
Molybdenum	97-1	13587182	13810354	13887941	13761826	1.13	cps
Molybdenum	98-1	35443429	35712188	36161265	35772294	1.01	cps
Neodymium	150-1	2761232	2733695	2762195	2752374	0.59	cps
Neodymium	150-2	640662	642036	640453	641050	0.13	cps
Nickel	60-2	1132659	1135349	1124903	1130970	0.48	cps
Phosphorus	31-2	149522	148912	144586	147673	1.82	cps
Potassium	39-2	6485429	6441741	6437389	6454853	0.41	cps
Rhodium	103-1	15343153	14900474	14986604	15076744	1.56	cps
Rhodium	103-2	5765564	5772828	5767122	5768504	0.07	cps
Scandium	45-1	11408100	11150942	11209678	11256240	1.20	cps
Scandium	45-2	190666	194683	192378	192576	1.05	cps
Selenium	82-1	180211	184125	180953	181763	1.14	cps
Selenium	77-2	6141	5945	5915	6000	2.05	cps
Selenium	78-2	11475	11491	11728	11565	1.23	cps
Silicon	28-1	148167388	149581484	150566401	149438424	0.81	cps
Silver	107-1	2572294	2624532	2596841	2597889	1.01	cps
Silver	109-1	2428736	2500060	2438557	2455784	1.57	cps
Sodium	23-2	26672672	26358734	26370659	26467355	0.67	cps
Strontium	86-1	5296364	5325212	5316227	5312601	0.28	cps
Strontium	88-1	46125563	46311151	46560861	46332525	0.47	cps
Sulfur	34-1	754350	757813	761413	757858	0.47	cps
Terbium	159-1	21874736	21752686	21784165	21803862	0.29	cps
Terbium	159-2	7226066	7409409	7240391	7291955	1.40	cps
Thallium	203-1	10004428	10327815	10221055	10184433	1.62	cps
Thallium	205-1	23932651	24086317	24432091	24150353	1.06	cps
Tin	118-1	8802642	8726152	8771727	8766841	0.44	cps
Titanium	47-1	6368889	6433287	6408578	6403585	0.51	cps
Uranium	238-1	32015572	32176326	32299279	32163726	0.44	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MS	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:07:59	DataFile Name :	032AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1886500	1867774	1872976	1875750	0.52	cps
Ytterbium	172-1	393790	399107	402665	398520	1.12	cps
Ytterbium	172-2	169199	170495	168301	169332	0.65	cps
Ytterbium	176-1	292466	293830	295274	293856	0.48	cps
Ytterbium	176-2	124850	125028	125039	124972	0.08	cps
Yttrium	89-1	59930247	58550799	59138076	59206374	1.17	cps
Yttrium	89-2	4126534	4156714	4076828	4120025	0.98	cps
Zinc	66-2	4474107	4452339	4413254	4446567	0.69	cps
Zirconium	90-1	21714063	21906796	22104915	21908591	0.89	cps
Zirconium	91-1	4765758	4906763	4870974	4847832	1.51	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3175574	3178009	3126506	3160030	0.92	cps
Antimony	121-1	12050615	12389317	12344056	12261329	1.50	cps
Arsenic	75-2	27153	26522	26969	26881	1.21	cps
Barium	135-1	14725824	15047039	15130918	14967927	1.43	cps
Barium	137-1	25738026	25631077	26348920	25906008	1.49	cps
Beryllium	9-1	2553845	2572109	2622618	2582857	1.38	cps
Bismuth	209-1	10931086	11228281	11330753	11163373	1.86	cps
Bismuth	209-2	4825072	4776385	4878706	4826721	1.06	cps
Bromine	81-1	34292	35114	36023	35143	2.46	cps
Cadmium	108-1	219443	218406	222207	220019	0.89	cps
Cadmium	106-1	342982	348933	352898	348271	1.43	cps
Cadmium	111-1	2987677	3098792	3037551	3041340	1.83	cps
Calcium	43-1	12066860	12080702	12126058	12091207	0.26	cps
Calcium	44-1	197643384	196735630	196553484	196977499	0.30	cps
Carbon	12-1	5932692	6373060	6617333	6307695	5.50	cps
Carbon	12-2	43872	44564	44587	44341	0.92	cps
Chlorine	35-1	82188360	86361232	89172352	85907315	4.09	cps
Chlorine	35-2	333793	330642	337269	333901	0.99	cps
Chromium	52-2	2280340	2242359	2272383	2265028	0.88	cps
Cobalt	59-2	5347886	5321292	5305137	5324772	0.41	cps
Copper	63-2	60188679	61194574	61578674	60987309	1.18	cps
Dysprosium	156-1	2162565	2163294	2182831	2169563	0.53	cps
Dysprosium	156-2	683532	673292	683236	680020	0.86	cps
Erbium	164-1	1759754	1827092	1845517	1810788	2.49	cps
Erbium	164-2	585914	578351	586336	583533	0.77	cps
Gadolinium	160-1	1961702	2037358	2025976	2008346	2.03	cps
Gadolinium	160-2	795948	796627	797295	796623	0.08	cps
Holmium	165-1	20591541	21014328	20814395	20806754	1.02	cps
Holmium	165-2	7484696	7511073	7518518	7504762	0.24	cps
Indium	115-1	16375355	16298506	16573852	16415904	0.87	cps
Indium	115-2	1656723	1616331	1671244	1648099	1.73	cps
Iron	54-2	53528269	51854504	53168449	52850408	1.67	cps
Iron	56-2	989447025	965595399	983479265	979507230	1.27	cps
Iron	57-2	24826870	25159004	24707158	24897677	0.94	cps
Krypton	83-1	2590	2627	2517	2578	2.17	cps
Lead	206-1	46163936	47149933	47812316	47042062	1.76	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	40118561	40384914	40249416	40250964	0.33	cps
Lead	208-1	185638962	187005275	187883841	186842692	0.61	cps
Lithium	6-1	5423153	5488362	5574219	5495245	1.38	cps
Magnesium	24-2	16707482	16677991	16691513	16692329	0.09	cps
Manganese	55-2	14776121	14463195	14645608	14628308	1.07	cps
Molybdenum	94-1	20390256	20800530	20719410	20636732	1.05	cps
Molybdenum	95-1	21902799	22466446	22387436	22252227	1.37	cps
Molybdenum	96-1	25151950	25668580	25604509	25475013	1.11	cps
Molybdenum	97-1	13791241	13760021	14003346	13851536	0.96	cps
Molybdenum	98-1	35832329	35870474	36177249	35960017	0.53	cps
Neodymium	150-1	2596261	2601005	2639475	2612247	0.91	cps
Neodymium	150-2	603176	601223	608190	604196	0.59	cps
Nickel	60-2	1141409	1144090	1141677	1142392	0.13	cps
Phosphorus	31-2	139897	141038	140955	140630	0.45	cps
Potassium	39-2	7358952	7432523	7532549	7441341	1.17	cps
Rhodium	103-1	15178121	14867211	14951637	14998990	1.07	cps
Rhodium	103-2	5897728	5861444	5802670	5853947	0.82	cps
Scandium	45-1	11258084	11194380	11288707	11247057	0.43	cps
Scandium	45-2	189844	190382	189169	189798	0.32	cps
Selenium	82-1	180415	181444	183705	181855	0.93	cps
Selenium	77-2	5911	5688	5888	5829	2.11	cps
Selenium	78-2	11508	11425	11748	11560	1.45	cps
Silicon	28-1	118344385	118083518	119087882	118505262	0.44	cps
Silver	107-1	2551256	2646502	2646539	2614766	2.10	cps
Silver	109-1	2429774	2489335	2507125	2475411	1.64	cps
Sodium	23-2	26467209	26673515	26129024	26423249	1.04	cps
Strontium	86-1	5818727	5822148	5769634	5803503	0.51	cps
Strontium	88-1	50398986	50741783	50347119	50495963	0.42	cps
Sulfur	34-1	841988	849375	852343	847902	0.63	cps
Terbium	159-1	21185756	21518759	21823911	21509475	1.48	cps
Terbium	159-2	7361799	7254789	7298513	7305034	0.74	cps
Thallium	203-1	9939477	10343218	10184934	10155876	2.00	cps
Thallium	205-1	23476360	24185201	24758002	24139855	2.66	cps
Tin	118-1	9032663	8950281	8987017	8989987	0.46	cps
Titanium	47-1	8648134	8899874	9004351	8850787	2.07	cps
Uranium	238-1	31755835	31531240	31775476	31687517	0.43	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSD	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSD	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:10:44	DataFile Name :	033AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1920444	1852725	1905370	1892846	1.88	cps
Ytterbium	172-1	375551	377749	379522	377607	0.53	cps
Ytterbium	172-2	161045	161680	160486	161071	0.37	cps
Ytterbium	176-1	283292	285749	285663	284901	0.49	cps
Ytterbium	176-2	120221	121031	121569	120940	0.56	cps
Yttrium	89-1	58715861	57692351	57687564	58031925	1.02	cps
Yttrium	89-2	4070818	3975668	4014570	4020352	1.19	cps
Zinc	66-2	4410477	4439903	4476125	4442168	0.74	cps
Zirconium	90-1	22102520	22349927	22386833	22279760	0.69	cps
Zirconium	91-1	4936718	4993446	4934440	4954868	0.67	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3152331	3112424	3151484	3138746	0.73	cps
Antimony	121-1	12349280	12378459	12466991	12398243	0.49	cps
Arsenic	75-2	26899	27140	27139	27059	0.51	cps
Barium	135-1	14711824	15245704	15077245	15011591	1.82	cps
Barium	137-1	25686178	26180495	26045534	25970735	0.98	cps
Beryllium	9-1	2563499	2587878	2542857	2564744	0.88	cps
Bismuth	209-1	11226053	11447376	11187042	11286824	1.24	cps
Bismuth	209-2	4985030	4870467	4919667	4925054	1.17	cps
Bromine	81-1	35224	35151	35629	35334	0.73	cps
Cadmium	108-1	221611	224380	225956	223982	0.98	cps
Cadmium	106-1	352666	352915	355354	353645	0.42	cps
Cadmium	111-1	2956010	3067654	3027647	3017103	1.87	cps
Calcium	43-1	12259874	12220274	12450766	12310305	1.00	cps
Calcium	44-1	203545977	201259257	202573270	202459501	0.57	cps
Carbon	12-1	6064158	6356393	6555511	6325354	3.91	cps
Carbon	12-2	44534	44574	44561	44556	0.05	cps
Chlorine	35-1	84354297	89345955	90575359	88091870	3.74	cps
Chlorine	35-2	338641	339386	338441	338823	0.15	cps
Chromium	52-2	2319456	2280822	2273673	2291317	1.07	cps
Cobalt	59-2	5382542	5308490	5285926	5325653	0.95	cps
Copper	63-2	62847529	62273826	62138001	62419785	0.60	cps
Dysprosium	156-1	2144924	2157362	2230961	2177749	2.14	cps
Dysprosium	156-2	682652	681624	673260	679179	0.76	cps
Erbium	164-1	1805984	1822239	1801707	1809976	0.60	cps
Erbium	164-2	586661	583901	581207	583923	0.47	cps
Gadolinium	160-1	2046056	2036169	2084949	2055725	1.25	cps
Gadolinium	160-2	798102	792443	793176	794574	0.39	cps
Holmium	165-1	21416803	20928411	21181129	21175448	1.15	cps
Holmium	165-2	7690137	7670095	7649777	7670003	0.26	cps
Indium	115-1	16354862	16283476	16527901	16388746	0.77	cps
Indium	115-2	1686230	1696980	1662547	1681919	1.05	cps
Iron	54-2	54228066	53235916	53474158	53646046	0.97	cps
Iron	56-2	1002869398	985813959	992651212	993778190	0.86	cps
Iron	57-2	25076930	24911564	25076191	25021562	0.38	cps
Krypton	83-1	2250	2504	2590	2448	7.22	cps
Lead	206-1	47115701	48610716	47843451	47856623	1.56	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	41285584	41548804	41363509	41399299	0.33	cps
Lead	208-1	188500406	192307602	189211096	190006368	1.07	cps
Lithium	6-1	5433795	5449978	5449811	5444528	0.17	cps
Magnesium	24-2	16609771	16632762	16799522	16680685	0.62	cps
Manganese	55-2	15023214	14759738	14701441	14828131	1.16	cps
Molybdenum	94-1	20779695	21340319	21140326	21086780	1.35	cps
Molybdenum	95-1	22067381	23091421	22666657	22608487	2.28	cps
Molybdenum	96-1	25286111	25817365	25946805	25683427	1.36	cps
Molybdenum	97-1	13912904	14100826	14126179	14046636	0.83	cps
Molybdenum	98-1	36078943	37252228	36608383	36646518	1.60	cps
Neodymium	150-1	2576750	2594888	2614970	2595536	0.74	cps
Neodymium	150-2	606343	611070	598682	605365	1.03	cps
Nickel	60-2	1157944	1148876	1155769	1154196	0.41	cps
Phosphorus	31-2	141334	141160	141556	141350	0.14	cps
Potassium	39-2	7576021	7496210	7483012	7518414	0.67	cps
Rhodium	103-1	15166947	15079982	15046146	15097692	0.41	cps
Rhodium	103-2	5992173	5973830	5949134	5971712	0.36	cps
Scandium	45-1	11459861	11224457	11504084	11396134	1.32	cps
Scandium	45-2	196985	195477	195332	195932	0.47	cps
Selenium	82-1	182489	184990	184092	183857	0.69	cps
Selenium	77-2	5975	5751	5955	5894	2.10	cps
Selenium	78-2	11695	11778	11615	11696	0.70	cps
Silicon	28-1	118694605	120959428	119645168	119766400	0.95	cps
Silver	107-1	2634859	2662642	2661673	2653058	0.59	cps
Silver	109-1	2473420	2511932	2485566	2490306	0.79	cps
Sodium	23-2	26921498	26482711	26531209	26645139	0.90	cps
Strontium	86-1	5790394	5802268	5817614	5803425	0.24	cps
Strontium	88-1	50893136	50264448	51299701	50819095	1.03	cps
Sulfur	34-1	849407	863564	860336	857769	0.86	cps
Terbium	159-1	21695424	21958091	21682332	21778616	0.71	cps
Terbium	159-2	7479502	7552697	7327911	7453370	1.54	cps
Thallium	203-1	10115546	10382212	10373220	10290326	1.47	cps
Thallium	205-1	23858824	24838755	24106005	24267861	2.10	cps
Tin	118-1	9007852	8973104	8953599	8978185	0.31	cps
Titanium	47-1	8852899	8971043	9124532	8982825	1.52	cps
Uranium	238-1	31224206	32233539	31849651	31769132	1.60	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01A	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066A	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:13:26	DataFile Name :	034AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1928932	1894892	1893390	1905738	1.05	cps
Ytterbium	172-1	376410	380270	383914	380198	0.99	cps
Ytterbium	172-2	160810	160294	161873	160992	0.50	cps
Ytterbium	176-1	287801	287088	288677	287855	0.28	cps
Ytterbium	176-2	119855	120844	121896	120865	0.84	cps
Yttrium	89-1	58286791	58607964	59009467	58634741	0.62	cps
Yttrium	89-2	4080024	3974253	3963849	4006042	1.60	cps
Zinc	66-2	4559764	4503637	4515073	4526158	0.66	cps
Zirconium	90-1	21885134	22818725	22708761	22470873	2.27	cps
Zirconium	91-1	4905906	5079872	5108163	5031314	2.18	cps

Reviewed By:MOHAN
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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1104577	1093260	1085897	1094578	0.86	cps
Antimony	121-1	2084	2064	2177	2108	2.87	cps
Arsenic	75-2	9667	10064	10467	10066	3.98	cps
Barium	135-1	533219	541337	536989	537182	0.76	cps
Barium	137-1	927762	939540	939839	935714	0.74	cps
Beryllium	9-1	4419	4426	4631	4492	2.68	cps
Bismuth	209-1	11656210	11951686	11946233	11851376	1.43	cps
Bismuth	209-2	5293493	5229727	5429935	5317718	1.92	cps
Bromine	81-1	30517	31886	31115	31173	2.20	cps
Cadmium	108-1	903	980	1130	1004	11.48	cps
Cadmium	106-1	15375	15172	15228	15259	0.69	cps
Cadmium	111-1	15448	14992	15180	15207	1.51	cps
Calcium	43-1	3019634	3058830	3081794	3053419	1.03	cps
Calcium	44-1	48609376	49222348	50200721	49344148	1.63	cps
Carbon	12-1	4031779	4066980	4059481	4052747	0.46	cps
Carbon	12-2	25469	26026	26224	25906	1.51	cps
Chlorine	35-1	2472795	2408924	2277665	2386461	4.17	cps
Chlorine	35-2	7492	7169	7065	7242	3.08	cps
Chromium	52-2	4094	4094	3957	4048	1.95	cps
Cobalt	59-2	446183	443894	445095	445058	0.26	cps
Copper	63-2	10285556	10177237	10082106	10181633	1.00	cps
Dysprosium	156-1	718735	737559	733567	729954	1.36	cps
Dysprosium	156-2	248696	247952	245199	247282	0.75	cps
Erbium	164-1	616276	620097	623418	619930	0.58	cps
Erbium	164-2	216946	214172	211900	214339	1.18	cps
Gadolinium	160-1	685045	684609	686923	685526	0.18	cps
Gadolinium	160-2	293074	288770	286901	289582	1.09	cps
Holmium	165-1	20598428	20778709	20942351	20773163	0.83	cps
Holmium	165-2	7704988	7660527	7796256	7720591	0.90	cps
Indium	115-1	17194659	17599738	17391351	17395249	1.16	cps
Indium	115-2	1790593	1755663	1839426	1795227	2.34	cps
Iron	54-2	25099430	24827312	24895204	24940649	0.57	cps
Iron	56-2	461992073	465742393	462438780	463391082	0.44	cps
Iron	57-2	11726969	11835513	11600257	11720913	1.00	cps
Krypton	83-1	1133	1247	1140	1173	5.42	cps
Lead	206-1	2020257	2035139	2074246	2043214	1.36	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1577017	1598659	1622950	1599542	1.44	cps
Lead	208-1	7807680	7842126	7982761	7877522	1.18	cps
Lithium	6-1	5445825	5519548	5578591	5514655	1.21	cps
Magnesium	24-2	1930309	1851408	1839441	1873719	2.63	cps
Manganese	55-2	2665977	2677021	2680101	2674367	0.28	cps
Molybdenum	94-1	133834	135576	134836	134748	0.65	cps
Molybdenum	95-1	14281	14311	13947	14180	1.42	cps
Molybdenum	96-1	41699	42448	42575	42241	1.12	cps
Molybdenum	97-1	8843	8743	8483	8689	2.14	cps
Molybdenum	98-1	21730	21697	21103	21510	1.64	cps
Neodymium	150-1	875454	887258	885841	882851	0.73	cps
Neodymium	150-2	220774	220976	220967	220906	0.05	cps
Nickel	60-2	8556	8586	8116	8419	3.13	cps
Phosphorus	31-2	49093	49026	48899	49006	0.20	cps
Potassium	39-2	1128519	1130567	1116730	1125272	0.66	cps
Rhodium	103-1	16021041	16035952	16036561	16031184	0.05	cps
Rhodium	103-2	6435029	6317130	6503325	6418495	1.47	cps
Scandium	45-1	11370656	11333619	11441532	11381935	0.48	cps
Scandium	45-2	196610	196948	203476	199011	1.94	cps
Selenium	82-1	1347	1160	1180	1229	8.34	cps
Selenium	77-2	1183	1290	1107	1193	7.72	cps
Selenium	78-2	663	680	737	693	5.54	cps
Silicon	28-1	66040187	73088509	67015227	68714641	5.56	cps
Silver	107-1	10351	10611	10791	10584	2.09	cps
Silver	109-1	9367	9887	9927	9727	3.21	cps
Sodium	23-2	296270	292037	289877	292728	1.11	cps
Strontium	86-1	192520	196839	199486	196281	1.79	cps
Strontium	88-1	1793019	1824747	1833170	1816979	1.17	cps
Sulfur	34-1	625346	623902	618635	622628	0.57	cps
Terbium	159-1	21451851	21602005	21529602	21527819	0.35	cps
Terbium	159-2	7218164	7396270	7641914	7418783	2.87	cps
Thallium	203-1	10194	10081	9464	9913	3.97	cps
Thallium	205-1	24300	23398	23034	23577	2.76	cps
Tin	118-1	26509	27598	27592	27233	2.30	cps
Titanium	47-1	3523749	3486741	3542693	3517727	0.81	cps
Uranium	238-1	88428	88774	88425	88542	0.23	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:17:51	DataFile Name :	035AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	44666	44405	44716	44596	0.37	cps
Ytterbium	172-1	152857	155910	156521	155096	1.27	cps
Ytterbium	172-2	66003	66402	64362	65589	1.65	cps
Ytterbium	176-1	97369	98064	98457	97963	0.56	cps
Ytterbium	176-2	42418	41776	42167	42120	0.77	cps
Yttrium	89-1	41670772	41985962	42560501	42072412	1.07	cps
Yttrium	89-2	2999292	2961388	3001872	2987517	0.76	cps
Zinc	66-2	290481	288363	283379	287408	1.27	cps
Zirconium	90-1	340234	348809	344232	344425	1.25	cps
Zirconium	91-1	75078	77118	75312	75836	1.47	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3664946	3613363	3620412	3632907	0.77	cps
Antimony	121-1	12242623	12187250	12290834	12240236	0.42	cps
Arsenic	75-2	220603	220668	221673	220981	0.27	cps
Barium	135-1	14582284	14649510	14571887	14601227	0.29	cps
Barium	137-1	25173956	25230193	25169444	25191198	0.13	cps
Beryllium	9-1	2516088	2542776	2530511	2529791	0.53	cps
Bismuth	209-1	10578501	10561810	10476732	10539014	0.52	cps
Bismuth	209-2	4561846	4573298	4571938	4569027	0.14	cps
Bromine	81-1	26281	26321	25684	26095	1.37	cps
Cadmium	108-1	223639	229322	228006	226989	1.31	cps
Cadmium	106-1	329521	334003	332303	331942	0.68	cps
Cadmium	111-1	2906490	2924419	2939237	2923382	0.56	cps
Calcium	43-1	18363062	18756313	18398444	18505940	1.18	cps
Calcium	44-1	301324589	304467935	297810756	301201093	1.11	cps
Carbon	12-1	4205805	4189971	4112118	4169298	1.20	cps
Carbon	12-2	31109	30846	30278	30744	1.38	cps
Chlorine	35-1	1230413	1224724	1174372	1209836	2.55	cps
Chlorine	35-2	3784	3861	3704	3783	2.07	cps
Chromium	52-2	2329558	2312727	2287738	2310007	0.91	cps
Cobalt	59-2	4202652	4159968	4224373	4195664	0.78	cps
Copper	63-2	31611275	31646701	31583648	31613875	0.10	cps
Dysprosium	156-1	1000	970	1027	999	2.84	cps
Dysprosium	156-2	197	170	123	163	22.72	cps
Erbium	164-1	633	697	647	659	5.07	cps
Erbium	164-2	207	273	287	256	16.77	cps
Gadolinium	160-1	510	620	600	577	10.16	cps
Gadolinium	160-2	220	217	163	200	15.90	cps
Holmium	165-1	18727566	19341912	19342977	19137485	1.86	cps
Holmium	165-2	6808746	6885976	6828344	6841022	0.59	cps
Indium	115-1	15371501	15556080	15338030	15421870	0.76	cps
Indium	115-2	1429446	1432089	1436950	1432828	0.27	cps
Iron	54-2	22505489	22472304	22660795	22546196	0.45	cps
Iron	56-2	419000767	418186647	408524327	415237247	1.40	cps
Iron	57-2	10631312	10623153	10366574	10540347	1.43	cps
Krypton	83-1	297	300	333	310	6.54	cps
Lead	206-1	41368528	42011136	41800204	41726622	0.79	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35587418	35583315	35367166	35512633	0.35	cps
Lead	208-1	164396441	164368937	164458898	164408092	0.03	cps
Lithium	6-1	4987171	5121856	4990457	5033161	1.53	cps
Magnesium	24-2	64698039	65069249	63805512	64524267	1.01	cps
Manganese	55-2	9387038	9372930	9285720	9348563	0.59	cps
Molybdenum	94-1	42716454	42826913	42563448	42702272	0.31	cps
Molybdenum	95-1	61477096	62075754	62266502	61939784	0.66	cps
Molybdenum	96-1	66440974	67350061	67553669	67114901	0.88	cps
Molybdenum	97-1	37473539	38357404	38093667	37974870	1.19	cps
Molybdenum	98-1	97586022	99133685	99442699	98720802	1.01	cps
Neodymium	150-1	1270	1283	1220	1258	2.65	cps
Neodymium	150-2	127	73	123	108	27.72	cps
Nickel	60-2	1086592	1077527	1071119	1078413	0.72	cps
Phosphorus	31-2	34712	34371	34417	34500	0.54	cps
Potassium	39-2	20277360	20575350	20772896	20541869	1.21	cps
Rhodium	103-1	13619046	13949648	14069407	13879367	1.68	cps
Rhodium	103-2	5278233	5432328	5407562	5372708	1.54	cps
Scandium	45-1	10204961	10256833	10451537	10304444	1.26	cps
Scandium	45-2	177010	178784	178089	177961	0.50	cps
Selenium	82-1	171306	173450	173439	172732	0.71	cps
Selenium	77-2	2687	2890	2670	2749	4.46	cps
Selenium	78-2	8860	9216	9303	9126	2.58	cps
Silicon	28-1	56059604	55784744	54792508	55545619	1.20	cps
Silver	107-1	14417015	14490036	14597474	14501509	0.63	cps
Silver	109-1	13560256	13795150	13811594	13722333	1.02	cps
Sodium	23-2	127283985	132067141	127901965	129084364	2.02	cps
Strontium	86-1	4003122	4023882	3939465	3988823	1.10	cps
Strontium	88-1	34616652	34589285	34945679	34717206	0.57	cps
Sulfur	34-1	1442697	1434175	1402268	1426380	1.49	cps
Terbium	159-1	19586546	19841724	20015523	19814598	1.09	cps
Terbium	159-2	6713701	6570961	6568370	6617677	1.26	cps
Thallium	203-1	10187319	10364249	10245331	10265633	0.88	cps
Thallium	205-1	24101667	24538698	24580660	24407008	1.09	cps
Tin	118-1	9743187	9736940	9782070	9754066	0.25	cps
Titanium	47-1	16447865	16725934	16784915	16652905	1.08	cps
Uranium	238-1	32068090	31930207	32146280	32048192	0.34	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV02	Instrumnet Name :	P8
Client Sample ID :	CCV02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:20:59	DataFile Name :	036CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1739380	1725678	1758019	1741025	0.93	cps
Ytterbium	172-1	977	930	1013	973	4.29	cps
Ytterbium	172-2	333	333	430	366	15.27	cps
Ytterbium	176-1	51624	52601	53973	52732	2.24	cps
Ytterbium	176-2	19047	18757	18573	18792	1.27	cps
Yttrium	89-1	29772174	29321986	29564744	29552968	0.76	cps
Yttrium	89-2	2067046	2055959	2066967	2063324	0.31	cps
Zinc	66-2	3581835	3555652	3547183	3561556	0.51	cps
Zirconium	90-1	21509012	21388516	21263470	21386999	0.57	cps
Zirconium	91-1	4793080	4759505	4805941	4786175	0.50	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2227	2070	2217	2171	4.04	cps
Antimony	121-1	3347	3000	2490	2946	14.63	cps
Arsenic	75-2	7	10	10	9	21.63	cps
Barium	135-1	420	393	323	379	13.18	cps
Barium	137-1	757	553	603	638	16.61	cps
Beryllium	9-1	524	482	402	470	13.13	cps
Bismuth	209-1	12475911	12510798	12489006	12491905	0.14	cps
Bismuth	209-2	5270628	5425500	5316536	5337555	1.49	cps
Bromine	81-1	26893	27364	27547	27268	1.24	cps
Cadmium	108-1	60	47	63	57	15.56	cps
Cadmium	106-1	10501	10674	10724	10633	1.10	cps
Cadmium	111-1	7515	7619	7639	7591	0.88	cps
Calcium	43-1	1243	1137	1080	1153	7.19	cps
Calcium	44-1	31218	29014	28560	29597	4.80	cps
Carbon	12-1	3808469	3810732	3779412	3799537	0.46	cps
Carbon	12-2	24437	23576	23696	23903	1.95	cps
Chlorine	35-1	838381	807596	789181	811719	3.06	cps
Chlorine	35-2	2600	2597	2484	2560	2.59	cps
Chromium	52-2	1133	1160	1067	1120	4.29	cps
Cobalt	59-2	247	143	173	188	28.31	cps
Copper	63-2	1960	1913	1753	1876	5.78	cps
Dysprosium	156-1	200	223	157	193	17.50	cps
Dysprosium	156-2	10	7	0	6	91.64	cps
Erbium	164-1	143	160	137	147	8.19	cps
Erbium	164-2	33	47	50	43	20.36	cps
Gadolinium	160-1	150	117	143	137	12.91	cps
Gadolinium	160-2	37	57	17	37	54.54	cps
Holmium	165-1	20175273	20668091	20551906	20465090	1.26	cps
Holmium	165-2	7164804	7210466	7292129	7222467	0.89	cps
Indium	115-1	17670674	17848476	17900244	17806465	0.68	cps
Indium	115-2	1785083	1768156	1784971	1779403	0.55	cps
Iron	54-2	1133	1143	937	1071	10.88	cps
Iron	56-2	16607	15639	14868	15704	5.55	cps
Iron	57-2	447	380	430	419	8.28	cps
Krypton	83-1	233	207	333	258	25.91	cps
Lead	206-1	4544	4267	4064	4292	5.62	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	4067	3501	3434	3667	9.49	cps
Lead	208-1	18082	16331	15527	16647	7.85	cps
Lithium	6-1	5728979	5741791	5783692	5751487	0.50	cps
Magnesium	24-2	1107	853	857	939	15.48	cps
Manganese	55-2	2344	2174	2154	2224	4.70	cps
Molybdenum	94-1	3354	2714	2500	2856	15.55	cps
Molybdenum	95-1	2374	1733	1460	1856	25.26	cps
Molybdenum	96-1	3217	2304	2064	2528	24.08	cps
Molybdenum	97-1	1527	1127	937	1197	25.17	cps
Molybdenum	98-1	4064	2820	2610	3165	24.83	cps
Neodymium	150-1	37	33	73	48	46.45	cps
Neodymium	150-2	3	3	3	3	0.00	cps
Nickel	60-2	220	187	260	222	16.52	cps
Phosphorus	31-2	83	80	93	86	8.11	cps
Potassium	39-2	13697	13119	13193	13336	2.36	cps
Rhodium	103-1	16305397	16697225	16664883	16555835	1.31	cps
Rhodium	103-2	6417526	6391639	6410227	6406464	0.21	cps
Scandium	45-1	11112895	11275304	11043324	11143841	1.07	cps
Scandium	45-2	188664	190455	190630	189916	0.57	cps
Selenium	82-1	13	97	-43	22	316.89	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	27	7	13	16	65.47	cps
Silicon	28-1	475736	475399	481117	477417	0.67	cps
Silver	107-1	1460	1393	1150	1335	12.23	cps
Silver	109-1	1363	1097	940	1133	18.89	cps
Sodium	23-2	36058	35329	34547	35312	2.14	cps
Strontium	86-1	593	420	547	520	17.25	cps
Strontium	88-1	1120	910	900	977	12.72	cps
Sulfur	34-1	537610	538621	540514	538915	0.27	cps
Terbium	159-1	21298994	21300300	21340572	21313289	0.11	cps
Terbium	159-2	7192269	7137323	7159002	7162865	0.39	cps
Thallium	203-1	1730	1567	1497	1598	7.49	cps
Thallium	205-1	4341	3724	3567	3877	10.55	cps
Tin	118-1	5101	4728	4874	4901	3.84	cps
Titanium	47-1	780	657	537	658	18.50	cps
Uranium	238-1	750	610	437	599	26.21	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB02	Instrumnet Name :	P8
Client Sample ID :	CCB02	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:23:45	DataFile Name :	037CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	47	63	50	53	16.53	cps
Ytterbium	172-1	113	113	160	129	20.90	cps
Ytterbium	172-2	100	53	90	81	30.29	cps
Ytterbium	176-1	2640	2670	2630	2647	0.79	cps
Ytterbium	176-2	677	700	667	681	2.51	cps
Yttrium	89-1	32249356	32281231	32780204	32436930	0.92	cps
Yttrium	89-2	2227200	2182005	2212035	2207080	1.04	cps
Zinc	66-2	703	670	713	696	3.26	cps
Zirconium	90-1	4864	4504	4567	4645	4.14	cps
Zirconium	91-1	1080	1063	920	1021	8.61	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	1161323	1150148	1153381	1154950	0.50	cps
Antimony	121-1	2550	2567	2547	2555	0.42	cps
Arsenic	75-2	10537	10707	10504	10583	1.03	cps
Barium	135-1	555000	564533	563273	560936	0.92	cps
Barium	137-1	966755	983715	986225	978898	1.08	cps
Beryllium	9-1	4624	4571	4576	4591	0.63	cps
Bismuth	209-1	12021128	11853141	12177719	12017329	1.35	cps
Bismuth	209-2	5227381	5222296	5302619	5250765	0.86	cps
Bromine	81-1	30310	30152	31111	30524	1.68	cps
Cadmium	108-1	1003	1200	1027	1077	9.98	cps
Cadmium	106-1	15786	15756	15465	15669	1.13	cps
Cadmium	111-1	15866	15897	15535	15766	1.27	cps
Calcium	43-1	3202494	3118013	3195119	3171875	1.48	cps
Calcium	44-1	51302078	50958943	50786763	51015928	0.51	cps
Carbon	12-1	3985410	3945980	3974268	3968553	0.51	cps
Carbon	12-2	25532	25265	25299	25365	0.57	cps
Chlorine	35-1	816184	830063	837304	827850	1.30	cps
Chlorine	35-2	2707	2970	3200	2959	8.34	cps
Chromium	52-2	3934	4064	4164	4054	2.85	cps
Cobalt	59-2	460007	466063	461283	462451	0.69	cps
Copper	63-2	10607213	10609350	10437923	10551495	0.93	cps
Dysprosium	156-1	738138	745428	753864	745810	1.06	cps
Dysprosium	156-2	253987	253875	255050	254304	0.25	cps
Erbium	164-1	629884	635231	634748	633288	0.47	cps
Erbium	164-2	221186	220535	220442	220721	0.18	cps
Gadolinium	160-1	699642	709719	710917	706759	0.88	cps
Gadolinium	160-2	299084	296385	296758	297409	0.49	cps
Holmium	165-1	20743189	20617841	20622634	20661221	0.34	cps
Holmium	165-2	7430722	7589356	7571032	7530370	1.15	cps
Indium	115-1	17292627	17336419	17380647	17336564	0.25	cps
Indium	115-2	1791075	1740695	1772654	1768142	1.44	cps
Iron	54-2	26385664	26204890	26261086	26283880	0.35	cps
Iron	56-2	494830779	483463739	487743219	488679246	1.17	cps
Iron	57-2	12467932	12574448	12203581	12415320	1.54	cps
Krypton	83-1	1110	1247	1090	1149	7.42	cps
Lead	206-1	2157875	2152834	2124997	2145235	0.83	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1786355	1783520	1798479	1789451	0.44	cps
Lead	208-1	8375567	8390921	8370534	8379007	0.13	cps
Lithium	6-1	5616402	5649371	5595097	5620290	0.49	cps
Magnesium	24-2	2022005	2015505	2015875	2017795	0.18	cps
Manganese	55-2	2875137	2840032	2800930	2838700	1.31	cps
Molybdenum	94-1	135781	139276	137201	137420	1.28	cps
Molybdenum	95-1	14321	14161	14721	14401	2.01	cps
Molybdenum	96-1	43478	44591	44320	44130	1.32	cps
Molybdenum	97-1	8780	8843	9030	8884	1.46	cps
Molybdenum	98-1	22528	22899	22979	22802	1.05	cps
Neodymium	150-1	905753	921269	924706	917243	1.10	cps
Neodymium	150-2	226432	227173	228123	227243	0.37	cps
Nickel	60-2	8783	8926	8863	8857	0.81	cps
Phosphorus	31-2	49705	49875	49835	49805	0.18	cps
Potassium	39-2	1161042	1158121	1162016	1160393	0.17	cps
Rhodium	103-1	16006616	16045545	16067964	16040042	0.19	cps
Rhodium	103-2	6299557	6263851	6246926	6270112	0.43	cps
Scandium	45-1	11502863	11436984	11652740	11530862	0.96	cps
Scandium	45-2	193590	195047	192593	193743	0.64	cps
Selenium	82-1	1287	1314	1377	1326	3.49	cps
Selenium	77-2	1297	1140	1147	1195	7.42	cps
Selenium	78-2	713	703	770	729	4.93	cps
Silicon	28-1	70405847	70824514	72118971	71116444	1.26	cps
Silver	107-1	10187	10681	10681	10516	2.71	cps
Silver	109-1	9413	9760	10304	9826	4.57	cps
Sodium	23-2	302816	302200	303114	302710	0.15	cps
Strontium	86-1	196808	200365	201903	199692	1.31	cps
Strontium	88-1	1841478	1894932	1888824	1875078	1.56	cps
Sulfur	34-1	634606	637032	634068	635235	0.25	cps
Terbium	159-1	21158358	21398070	21483437	21346622	0.79	cps
Terbium	159-2	7318404	7254041	7327546	7299997	0.55	cps
Thallium	203-1	7973	8463	8543	8326	3.71	cps
Thallium	205-1	20660	20346	19658	20221	2.53	cps
Tin	118-1	28364	27769	27061	27731	2.35	cps
Titanium	47-1	3755233	3705494	3749858	3736862	0.73	cps
Uranium	238-1	90553	90422	91655	90877	0.74	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:27:06	DataFile Name :	038AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	46562	46923	46672	46719	0.40	cps
Ytterbium	172-1	158534	160433	162928	160632	1.37	cps
Ytterbium	172-2	68114	67216	67223	67518	0.76	cps
Ytterbium	176-1	100133	100888	102175	101065	1.02	cps
Ytterbium	176-2	43425	42749	44123	43432	1.58	cps
Yttrium	89-1	41498236	42180099	41831109	41836482	0.81	cps
Yttrium	89-2	2993166	2959024	2974938	2975710	0.57	cps
Zinc	66-2	296486	296847	298769	297367	0.41	cps
Zirconium	90-1	354405	355086	356089	355193	0.24	cps
Zirconium	91-1	78476	78606	77990	78357	0.41	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	222801	219348	218585	220245	1.02	cps
Antimony	121-1	1177	1220	1283	1227	4.37	cps
Arsenic	75-2	2094	2157	2097	2116	1.68	cps
Barium	135-1	107025	109410	108318	108251	1.10	cps
Barium	137-1	184807	187219	185182	185736	0.70	cps
Beryllium	9-1	1005	986	1069	1020	4.24	cps
Bismuth	209-1	12308394	12567399	12276341	12384045	1.29	cps
Bismuth	209-2	5332285	5263571	5347778	5314545	0.84	cps
Bromine	81-1	28676	28482	29057	28738	1.02	cps
Cadmium	108-1	233	237	210	227	6.41	cps
Cadmium	106-1	11618	11068	11241	11309	2.49	cps
Cadmium	111-1	9063	8685	8932	8893	2.16	cps
Calcium	43-1	590350	605710	609716	601925	1.70	cps
Calcium	44-1	9804279	9954614	9911540	9890145	0.78	cps
Carbon	12-1	3639952	3553467	3433920	3542446	2.92	cps
Carbon	12-2	22664	21863	22020	22182	1.91	cps
Chlorine	35-1	535336	529399	525817	530184	0.91	cps
Chlorine	35-2	1693	1760	1843	1766	4.26	cps
Chromium	52-2	1887	1943	1893	1908	1.62	cps
Cobalt	59-2	89744	89563	90935	90081	0.83	cps
Copper	63-2	2073941	2156708	2123347	2117999	1.97	cps
Dysprosium	156-1	143409	147756	145175	145447	1.50	cps
Dysprosium	156-2	49571	48283	48340	48732	1.49	cps
Erbium	164-1	122256	124698	124039	123664	1.02	cps
Erbium	164-2	43156	43250	42471	42959	0.99	cps
Gadolinium	160-1	136063	137295	138191	137183	0.78	cps
Gadolinium	160-2	57423	57269	56639	57110	0.73	cps
Holmium	165-1	20187285	20488709	20720801	20465598	1.31	cps
Holmium	165-2	7483310	7338511	7367401	7396408	1.04	cps
Indium	115-1	17925017	17734956	17685302	17781759	0.71	cps
Indium	115-2	1763998	1793364	1785212	1780858	0.85	cps
Iron	54-2	4994353	5015255	4957190	4988933	0.59	cps
Iron	56-2	93657835	94352955	93382272	93797687	0.53	cps
Iron	57-2	2419217	2425477	2423159	2422617	0.13	cps
Krypton	83-1	493	407	453	451	9.62	cps
Lead	206-1	381405	386170	389784	385786	1.09	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	324837	328144	327673	326884	0.55	cps
Lead	208-1	1502930	1523150	1526426	1517502	0.84	cps
Lithium	6-1	5704105	5517284	5514644	5578678	1.95	cps
Magnesium	24-2	368532	373082	370912	370842	0.61	cps
Manganese	55-2	517832	507461	513096	512796	1.01	cps
Molybdenum	94-1	26956	27146	26906	27003	0.47	cps
Molybdenum	95-1	2804	2930	2857	2864	2.22	cps
Molybdenum	96-1	9277	9110	8870	9085	2.25	cps
Molybdenum	97-1	1727	1810	1873	1803	4.08	cps
Molybdenum	98-1	4607	4594	4621	4607	0.29	cps
Neodymium	150-1	172631	177294	176633	175519	1.44	cps
Neodymium	150-2	44029	44085	43039	43718	1.35	cps
Nickel	60-2	2977	3134	3017	3043	2.68	cps
Phosphorus	31-2	10354	9633	10034	10007	3.61	cps
Potassium	39-2	238231	236171	237358	237253	0.44	cps
Rhodium	103-1	16544602	16256492	16779741	16526945	1.59	cps
Rhodium	103-2	6331255	6396278	6342334	6356622	0.55	cps
Scandium	45-1	11115659	11370053	11540925	11342212	1.89	cps
Scandium	45-2	190516	190556	187774	189615	0.84	cps
Selenium	82-1	260	407	260	309	27.41	cps
Selenium	77-2	253	210	187	217	15.61	cps
Selenium	78-2	120	160	137	139	14.47	cps
Silicon	28-1	13677296	13974225	13984993	13878838	1.26	cps
Silver	107-1	2354	2394	2430	2392	1.60	cps
Silver	109-1	2017	2360	2187	2188	7.85	cps
Sodium	23-2	81315	82019	81331	81555	0.49	cps
Strontium	86-1	38757	39613	39255	39208	1.10	cps
Strontium	88-1	341731	341544	343816	342364	0.37	cps
Sulfur	34-1	551497	546868	547820	548728	0.45	cps
Terbium	159-1	21672450	21588188	21283400	21514679	0.95	cps
Terbium	159-2	7236705	7177105	7232435	7215415	0.46	cps
Thallium	203-1	2160	2527	2204	2297	8.72	cps
Thallium	205-1	5398	5191	5408	5332	2.29	cps
Tin	118-1	7659	8199	7889	7916	3.43	cps
Titanium	47-1	667985	684104	681104	677731	1.26	cps
Uranium	238-1	17953	17455	17616	17675	1.44	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDLX25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:30:15	DataFile Name :	039AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8829	8723	9133	8895	2.39	cps
Ytterbium	172-1	30358	30913	30702	30658	0.91	cps
Ytterbium	172-2	12633	12990	12876	12833	1.42	cps
Ytterbium	176-1	21831	21845	21935	21870	0.26	cps
Ytterbium	176-2	8956	8980	8736	8891	1.51	cps
Yttrium	89-1	34757049	33994157	34588716	34446641	1.16	cps
Yttrium	89-2	2381795	2388104	2339114	2369671	1.12	cps
Zinc	66-2	64111	64697	64415	64408	0.45	cps
Zirconium	90-1	68440	68651	70674	69255	1.78	cps
Zirconium	91-1	15102	15656	15235	15331	1.89	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	517367	520327	516090	517928	0.42	cps
Antimony	121-1	2522652	2516841	2511314	2516935	0.23	cps
Arsenic	75-2	4511	4697	4774	4661	2.91	cps
Barium	135-1	2941587	2962830	2906414	2936944	0.97	cps
Barium	137-1	5049126	5076622	5073407	5066385	0.30	cps
Beryllium	9-1	524573	531714	533682	529990	0.90	cps
Bismuth	209-1	12061038	12138239	11828144	12009140	1.34	cps
Bismuth	209-2	5312337	5324815	5288881	5308677	0.34	cps
Bromine	81-1	29905	29899	30259	30021	0.69	cps
Cadmium	108-1	45308	45558	45836	45567	0.58	cps
Cadmium	106-1	80101	80456	81174	80577	0.68	cps
Cadmium	111-1	592187	604119	609418	601908	1.47	cps
Calcium	43-1	2393084	2402066	2384927	2393359	0.36	cps
Calcium	44-1	37742341	39086753	38438659	38422584	1.75	cps
Carbon	12-1	3796567	3808749	3758284	3787867	0.70	cps
Carbon	12-2	25122	24460	24587	24723	1.42	cps
Chlorine	35-1	13837533	15369426	16075097	15094019	7.58	cps
Chlorine	35-2	62327	62739	64252	63106	1.61	cps
Chromium	52-2	434017	436275	434858	435050	0.26	cps
Cobalt	59-2	1045281	1045885	1034051	1041739	0.64	cps
Copper	63-2	12687920	12462907	12499309	12550045	0.96	cps
Dysprosium	156-1	408751	415019	421075	414949	1.49	cps
Dysprosium	156-2	141681	141015	140250	140982	0.51	cps
Erbium	164-1	341769	347667	348013	345816	1.01	cps
Erbium	164-2	120681	119498	120005	120061	0.49	cps
Gadolinium	160-1	386203	393819	393586	391202	1.11	cps
Gadolinium	160-2	166121	164939	165397	165486	0.36	cps
Holmium	165-1	20620614	20371184	20549776	20513858	0.63	cps
Holmium	165-2	7571309	7542419	7500785	7538171	0.47	cps
Indium	115-1	17588594	17475962	17802575	17622377	0.94	cps
Indium	115-2	1797397	1760044	1792605	1783349	1.14	cps
Iron	54-2	9929102	9931305	10038244	9966217	0.63	cps
Iron	56-2	188746237	187426597	186848577	187673804	0.52	cps
Iron	57-2	4690559	4664489	4681853	4678967	0.28	cps
Krypton	83-1	767	760	747	758	1.34	cps
Lead	206-1	9850303	9806688	10077917	9911636	1.47	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8414687	8529121	8548514	8497441	0.85	cps
Lead	208-1	38885509	39329873	39282393	39165925	0.62	cps
Lithium	6-1	5528083	5589024	5469770	5528959	1.08	cps
Magnesium	24-2	3383110	3338619	3347846	3356525	0.70	cps
Manganese	55-2	3040187	3034167	3062542	3045632	0.49	cps
Molybdenum	94-1	4173518	4164703	4204139	4180787	0.50	cps
Molybdenum	95-1	4529396	4563945	4499836	4531059	0.71	cps
Molybdenum	96-1	5061555	5102350	5056900	5073602	0.49	cps
Molybdenum	97-1	2761586	2814129	2803370	2793029	0.99	cps
Molybdenum	98-1	7108786	7310211	7236383	7218460	1.41	cps
Neodymium	150-1	504408	507827	514292	508843	0.99	cps
Neodymium	150-2	127683	125678	126018	126460	0.85	cps
Nickel	60-2	241184	237811	239632	239543	0.70	cps
Phosphorus	31-2	29861	29523	29834	29739	0.63	cps
Potassium	39-2	1349134	1306329	1300886	1318783	2.00	cps
Rhodium	103-1	16170449	16216086	16105138	16163891	0.34	cps
Rhodium	103-2	6355233	6400863	6300537	6352211	0.79	cps
Scandium	45-1	11254519	11297802	11445012	11332444	0.88	cps
Scandium	45-2	196751	191619	195464	194612	1.37	cps
Selenium	82-1	37258	37723	37900	37627	0.88	cps
Selenium	77-2	1160	1193	1303	1219	6.15	cps
Selenium	78-2	2550	2137	2197	2295	9.73	cps
Silicon	28-1	30668326	30813521	30868312	30783386	0.34	cps
Silver	107-1	502380	512347	517222	510650	1.48	cps
Silver	109-1	475758	490581	488788	485042	1.67	cps
Sodium	23-2	5447241	5474991	5395810	5439347	0.74	cps
Strontium	86-1	1009518	1015837	1019514	1014956	0.50	cps
Strontium	88-1	9153286	9338052	9363517	9284951	1.24	cps
Sulfur	34-1	581578	583036	586838	583818	0.47	cps
Terbium	159-1	21367281	21340045	21496729	21401352	0.39	cps
Terbium	159-2	7319407	7272837	7204660	7265635	0.79	cps
Thallium	203-1	2098314	2104503	2168945	2123921	1.84	cps
Thallium	205-1	4916482	5048263	5046415	5003720	1.51	cps
Tin	118-1	1826145	1841146	1873112	1846801	1.30	cps
Titanium	47-1	1328704	1312996	1324204	1321968	0.61	cps
Uranium	238-1	6330159	6434289	6228137	6330862	1.63	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:33:27	DataFile Name :	040AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	364191	361241	360296	361909	0.56	cps
Ytterbium	172-1	78256	78585	80342	79061	1.42	cps
Ytterbium	172-2	33328	33903	33399	33543	0.93	cps
Ytterbium	176-1	59313	61094	60488	60298	1.50	cps
Ytterbium	176-2	24997	25371	25378	25249	0.86	cps
Yttrium	89-1	37698631	37558520	38111269	37789474	0.76	cps
Yttrium	89-2	2690752	2634104	2650717	2658524	1.10	cps
Zinc	66-2	902890	887414	883861	891388	1.14	cps
Zirconium	90-1	4372511	4415496	4461617	4416541	1.01	cps
Zirconium	91-1	918781	937877	949910	935523	1.68	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	636851	637206	634088	636048	0.27	cps
Antimony	121-1	2514957	2589361	2559045	2554454	1.46	cps
Arsenic	75-2	5381	5478	5715	5524	3.11	cps
Barium	135-1	3003506	3052698	3055494	3037233	0.96	cps
Barium	137-1	5213235	5216201	5278673	5236036	0.71	cps
Beryllium	9-1	530543	532384	540362	534430	0.98	cps
Bismuth	209-1	12103176	12021851	12275657	12133561	1.07	cps
Bismuth	209-2	5325347	5275556	5184075	5261659	1.36	cps
Bromine	81-1	29491	29989	30547	30009	1.76	cps
Cadmium	108-1	45348	47107	46538	46331	1.94	cps
Cadmium	106-1	80064	81505	81174	80914	0.93	cps
Cadmium	111-1	601055	605920	612997	606657	0.99	cps
Calcium	43-1	2460090	2472536	2496981	2476536	0.76	cps
Calcium	44-1	40369177	40442166	40120763	40310702	0.42	cps
Carbon	12-1	3857224	3956205	3933037	3915489	1.32	cps
Carbon	12-2	25339	25335	26050	25575	1.61	cps
Chlorine	35-1	15196906	16543347	17374962	16371738	6.71	cps
Chlorine	35-2	65591	66549	66539	66226	0.83	cps
Chromium	52-2	440633	441893	433988	438838	0.97	cps
Cobalt	59-2	1066604	1064534	1063537	1064892	0.15	cps
Copper	63-2	13130025	13097637	13021844	13083169	0.42	cps
Dysprosium	156-1	394336	399178	403415	398976	1.14	cps
Dysprosium	156-2	135979	135024	134367	135124	0.60	cps
Erbium	164-1	331223	336209	335588	334340	0.81	cps
Erbium	164-2	116158	117638	116928	116908	0.63	cps
Gadolinium	160-1	376174	378756	375192	376707	0.49	cps
Gadolinium	160-2	155488	157353	157959	156933	0.82	cps
Holmium	165-1	20666529	20926868	20517488	20703629	1.00	cps
Holmium	165-2	7551766	7462955	7474278	7496333	0.64	cps
Indium	115-1	17616557	17508520	17696414	17607164	0.54	cps
Indium	115-2	1760243	1763348	1752188	1758593	0.33	cps
Iron	54-2	11018304	11109839	11124879	11084341	0.52	cps
Iron	56-2	204999677	202478664	202476444	203318261	0.72	cps
Iron	57-2	5107580	5101658	5086322	5098520	0.22	cps
Krypton	83-1	810	683	637	710	12.63	cps
Lead	206-1	9793016	9822997	9837358	9817790	0.23	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8387493	8489343	8350536	8409124	0.85	cps
Lead	208-1	38730927	39280448	39160294	39057223	0.74	cps
Lithium	6-1	5536909	5430488	5548438	5505279	1.18	cps
Magnesium	24-2	3443212	3443148	3531047	3472469	1.46	cps
Manganese	55-2	3035447	3068151	3069999	3057866	0.64	cps
Molybdenum	94-1	4141669	4223824	4301595	4222363	1.89	cps
Molybdenum	95-1	4528643	4610697	4521282	4553541	1.09	cps
Molybdenum	96-1	5087430	5137108	5097991	5107510	0.51	cps
Molybdenum	97-1	2818940	2769777	2819265	2802661	1.02	cps
Molybdenum	98-1	7287234	7266106	7321262	7291534	0.38	cps
Neodymium	150-1	478718	488994	488637	485450	1.20	cps
Neodymium	150-2	121131	121964	120249	121115	0.71	cps
Nickel	60-2	244722	242887	245621	244410	0.57	cps
Phosphorus	31-2	29530	29694	29313	29512	0.65	cps
Potassium	39-2	1558859	1558672	1553100	1556877	0.21	cps
Rhodium	103-1	16158839	16163062	16333968	16218623	0.62	cps
Rhodium	103-2	6363145	6221774	6281232	6288717	1.13	cps
Scandium	45-1	11581304	11475776	11476688	11511256	0.53	cps
Scandium	45-2	194379	194458	195032	194623	0.18	cps
Selenium	82-1	37201	38180	38568	37983	1.85	cps
Selenium	77-2	1153	1193	1243	1197	3.77	cps
Selenium	78-2	2497	2450	2340	2429	3.31	cps
Silicon	28-1	24446728	25075241	24713672	24745214	1.27	cps
Silver	107-1	501945	515949	518433	512109	1.74	cps
Silver	109-1	478803	489435	494247	487495	1.62	cps
Sodium	23-2	5511914	5434520	5420723	5455719	0.90	cps
Strontium	86-1	1107489	1120966	1116708	1115054	0.62	cps
Strontium	88-1	10181294	10296789	10219593	10232559	0.57	cps
Sulfur	34-1	601286	608778	610907	606990	0.83	cps
Terbium	159-1	21579159	21613266	21644326	21612250	0.15	cps
Terbium	159-2	7257216	7324955	7321251	7301141	0.52	cps
Thallium	203-1	2122589	2121112	2106433	2116712	0.42	cps
Thallium	205-1	5013810	4982976	5116721	5037835	1.39	cps
Tin	118-1	1832121	1874682	1871613	1859472	1.28	cps
Titanium	47-1	1782209	1829216	1810595	1807340	1.31	cps
Uranium	238-1	6383307	6456532	6558952	6466263	1.36	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:36:23	DataFile Name :	041AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	366156	367596	365987	366580	0.24	cps
Ytterbium	172-1	75510	75611	76070	75730	0.39	cps
Ytterbium	172-2	32426	31574	31518	31839	1.60	cps
Ytterbium	176-1	58870	59262	59436	59190	0.49	cps
Ytterbium	176-2	24186	24022	24122	24110	0.34	cps
Yttrium	89-1	37570627	38135040	37165421	37623696	1.29	cps
Yttrium	89-2	2648836	2568817	2654063	2623905	1.82	cps
Zinc	66-2	901030	907589	907638	905419	0.42	cps
Zirconium	90-1	4528772	4558972	4479338	4522361	0.89	cps
Zirconium	91-1	939015	960420	958433	952623	1.24	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	641429	642732	637405	640522	0.43	cps
Antimony	121-1	2559446	2582289	2602760	2581498	0.84	cps
Arsenic	75-2	5725	5601	5441	5589	2.54	cps
Barium	135-1	3128743	3141507	3068635	3112962	1.25	cps
Barium	137-1	5349847	5299135	5357272	5335418	0.59	cps
Beryllium	9-1	533075	542856	539696	538542	0.93	cps
Bismuth	209-1	11833969	12130577	12093951	12019499	1.35	cps
Bismuth	209-2	5246777	5346793	5229214	5274261	1.20	cps
Bromine	81-1	30263	30436	30927	30542	1.13	cps
Cadmium	108-1	46542	47016	47491	47016	1.01	cps
Cadmium	106-1	81277	81771	82699	81916	0.88	cps
Cadmium	111-1	600959	609627	613434	608007	1.05	cps
Calcium	43-1	2546247	2563456	2540059	2549921	0.48	cps
Calcium	44-1	40636817	41408326	40708312	40917818	1.04	cps
Carbon	12-1	3895382	3892450	3925728	3904520	0.47	cps
Carbon	12-2	24861	25482	25342	25228	1.29	cps
Chlorine	35-1	15518581	16679294	17752041	16649972	6.71	cps
Chlorine	35-2	66549	68350	68896	67932	1.81	cps
Chromium	52-2	438279	444375	446121	442925	0.93	cps
Cobalt	59-2	1069067	1086554	1072512	1076045	0.86	cps
Copper	63-2	13114821	13231011	13395106	13246980	1.06	cps
Dysprosium	156-1	397040	403352	407622	402671	1.32	cps
Dysprosium	156-2	136899	139101	136333	137444	1.06	cps
Erbium	164-1	336107	341534	343827	340489	1.16	cps
Erbium	164-2	118636	117267	117846	117916	0.58	cps
Gadolinium	160-1	375187	384156	384357	381233	1.37	cps
Gadolinium	160-2	158277	158482	159741	158833	0.50	cps
Holmium	165-1	20703794	20826810	20886628	20805744	0.45	cps
Holmium	165-2	7565934	7461126	7457617	7494892	0.82	cps
Indium	115-1	17828732	17293896	17804378	17642335	1.71	cps
Indium	115-2	1808792	1788197	1775972	1790987	0.93	cps
Iron	54-2	11139934	11168777	11001632	11103447	0.80	cps
Iron	56-2	208113597	206732770	204845097	206563821	0.79	cps
Iron	57-2	5155552	5246861	5153379	5185264	1.03	cps
Krypton	83-1	767	767	797	777	2.23	cps
Lead	206-1	9882015	9934344	9875877	9897412	0.32	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	8513715	8589538	8593234	8565496	0.52	cps
Lead	208-1	38970554	39645054	39545273	39386960	0.92	cps
Lithium	6-1	5479786	5540592	5453421	5491266	0.81	cps
Magnesium	24-2	3521476	3491272	3512835	3508527	0.44	cps
Manganese	55-2	3107869	3105451	3062716	3092012	0.82	cps
Molybdenum	94-1	4244998	4295999	4229308	4256768	0.82	cps
Molybdenum	95-1	4599901	4641500	4573105	4604835	0.75	cps
Molybdenum	96-1	5178577	5246760	5214141	5213159	0.65	cps
Molybdenum	97-1	2896055	2865030	2901402	2887496	0.68	cps
Molybdenum	98-1	7340444	7499199	7430650	7423431	1.07	cps
Neodymium	150-1	487152	498462	492619	492744	1.15	cps
Neodymium	150-2	120704	122768	121168	121547	0.89	cps
Nickel	60-2	246766	249642	247759	248055	0.59	cps
Phosphorus	31-2	28946	29697	28612	29085	1.91	cps
Potassium	39-2	1550649	1556995	1592821	1566822	1.45	cps
Rhodium	103-1	16297229	16087585	16592308	16325707	1.55	cps
Rhodium	103-2	6315537	6385531	6299347	6333472	0.72	cps
Scandium	45-1	11647603	11399512	11431524	11492880	1.17	cps
Scandium	45-2	192259	194339	194012	193537	0.58	cps
Selenium	82-1	37669	38435	38017	38040	1.01	cps
Selenium	77-2	1263	1273	1063	1200	9.87	cps
Selenium	78-2	2497	2290	2444	2410	4.45	cps
Silicon	28-1	25033395	24751897	25251287	25012193	1.00	cps
Silver	107-1	513225	520514	523378	519039	1.01	cps
Silver	109-1	487525	501067	493644	494079	1.37	cps
Sodium	23-2	5501908	5530575	5494472	5508985	0.35	cps
Strontium	86-1	1116409	1136824	1131218	1128150	0.93	cps
Strontium	88-1	10348321	10493420	10422731	10421491	0.70	cps
Sulfur	34-1	603816	607382	612081	607760	0.68	cps
Terbium	159-1	21329511	21893738	21652450	21625233	1.31	cps
Terbium	159-2	7358770	7266341	7238420	7287843	0.86	cps
Thallium	203-1	2154931	2184713	2161147	2166930	0.73	cps
Thallium	205-1	4984493	5100555	5064118	5049722	1.18	cps
Tin	118-1	1859058	1861986	1836003	1852349	0.77	cps
Titanium	47-1	1821737	1853312	1864871	1846640	1.21	cps
Uranium	238-1	6426710	6534297	6486791	6482599	0.83	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADLX5	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL	Dilution Factor :	5
Date & Time Acquired :	2025-05-13 17:39:17	DataFile Name :	042AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	374747	369087	371326	371720	0.77	cps
Ytterbium	172-1	76533	78226	77971	77577	1.18	cps
Ytterbium	172-2	31925	32146	32329	32133	0.63	cps
Ytterbium	176-1	58683	59775	59875	59444	1.11	cps
Ytterbium	176-2	24499	24332	24610	24480	0.57	cps
Yttrium	89-1	37802843	37847954	37932444	37861080	0.17	cps
Yttrium	89-2	2636950	2633538	2607869	2626119	0.61	cps
Zinc	66-2	905177	918510	914993	912893	0.76	cps
Zirconium	90-1	4548053	4624599	4568170	4580274	0.87	cps
Zirconium	91-1	956489	967173	966297	963320	0.62	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	212576	216613	214792	214661	0.94	cps
Antimony	121-1	817	753	733	768	5.67	cps
Arsenic	75-2	1960	2030	2010	2000	1.80	cps
Barium	135-1	104761	105504	105123	105129	0.35	cps
Barium	137-1	182658	182976	182968	182868	0.10	cps
Beryllium	9-1	1025	1007	1049	1027	2.02	cps
Bismuth	209-1	12202619	12241239	12211277	12218378	0.17	cps
Bismuth	209-2	5365183	5480199	5412530	5419304	1.07	cps
Bromine	81-1	29050	29822	29585	29486	1.34	cps
Cadmium	108-1	240	213	193	216	10.86	cps
Cadmium	106-1	11408	11141	11301	11284	1.19	cps
Cadmium	111-1	9004	8776	8932	8904	1.31	cps
Calcium	43-1	591129	589180	593057	591122	0.33	cps
Calcium	44-1	9840837	9585511	9700445	9708931	1.32	cps
Carbon	12-1	3542656	3390212	3411719	3448195	2.39	cps
Carbon	12-2	21553	21713	21332	21533	0.89	cps
Chlorine	35-1	1569833	1427538	1324744	1440705	8.54	cps
Chlorine	35-2	4114	4171	3934	4073	3.03	cps
Chromium	52-2	1567	1543	1520	1543	1.51	cps
Cobalt	59-2	88573	88915	89194	88894	0.35	cps
Copper	63-2	2112822	2151828	2078605	2114418	1.73	cps
Dysprosium	156-1	140304	141095	142355	141251	0.73	cps
Dysprosium	156-2	46865	48293	47972	47710	1.57	cps
Erbium	164-1	119568	122104	120577	120750	1.06	cps
Erbium	164-2	41829	40622	41180	41210	1.47	cps
Gadolinium	160-1	132571	134868	135376	134272	1.11	cps
Gadolinium	160-2	56258	57021	56137	56472	0.85	cps
Holmium	165-1	20781795	20846260	20498443	20708833	0.89	cps
Holmium	165-2	7403199	7487356	7474592	7455049	0.61	cps
Indium	115-1	17901859	17583150	17919601	17801537	1.06	cps
Indium	115-2	1806956	1805018	1802511	1804828	0.12	cps
Iron	54-2	4940518	4927365	4854007	4907297	0.95	cps
Iron	56-2	93730295	92085585	91923639	92579840	1.08	cps
Iron	57-2	2416642	2382140	2385503	2394761	0.79	cps
Krypton	83-1	407	447	457	437	6.06	cps
Lead	206-1	375234	377040	377213	376496	0.29	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	315111	318465	318060	317212	0.58	cps
Lead	208-1	1470043	1480940	1480717	1477233	0.42	cps
Lithium	6-1	5536356	5501738	5553634	5530576	0.48	cps
Magnesium	24-2	367446	366224	370588	368086	0.61	cps
Manganese	55-2	505344	504228	503343	504305	0.20	cps
Molybdenum	94-1	26943	27120	26916	26993	0.41	cps
Molybdenum	95-1	3264	2947	2934	3048	6.13	cps
Molybdenum	96-1	9056	8780	8579	8805	2.72	cps
Molybdenum	97-1	2114	1787	1867	1922	8.86	cps
Molybdenum	98-1	4968	4634	4627	4743	4.10	cps
Neodymium	150-1	171360	173358	170769	171829	0.79	cps
Neodymium	150-2	43075	42711	42878	42888	0.43	cps
Nickel	60-2	1977	1813	1810	1867	5.10	cps
Phosphorus	31-2	9403	9750	9627	9593	1.83	cps
Potassium	39-2	229833	231797	232782	231471	0.65	cps
Rhodium	103-1	16475660	16817279	16563302	16618747	1.07	cps
Rhodium	103-2	6494976	6632355	6527759	6551697	1.10	cps
Scandium	45-1	11426430	11485657	11462555	11458214	0.26	cps
Scandium	45-2	192572	194400	192445	193139	0.57	cps
Selenium	82-1	383	217	303	301	27.68	cps
Selenium	77-2	160	243	280	228	27.00	cps
Selenium	78-2	180	143	133	152	16.14	cps
Silicon	28-1	13465185	13074038	13558104	13365776	1.92	cps
Silver	107-1	2690	2587	2587	2621	2.28	cps
Silver	109-1	2494	2420	2317	2410	3.68	cps
Sodium	23-2	79180	78473	78238	78630	0.62	cps
Strontium	86-1	37965	38479	38981	38475	1.32	cps
Strontium	88-1	333470	336077	332271	333939	0.58	cps
Sulfur	34-1	559207	557041	556239	557496	0.28	cps
Terbium	159-1	21524743	21480427	21612177	21539116	0.31	cps
Terbium	159-2	7396909	7332291	7336360	7355187	0.49	cps
Thallium	203-1	3641	3160	3120	3307	8.75	cps
Thallium	205-1	8173	7462	7145	7593	6.93	cps
Tin	118-1	7709	7729	7952	7797	1.73	cps
Titanium	47-1	671255	679458	673476	674730	0.63	cps
Uranium	238-1	17135	17182	16888	17068	0.92	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:42:14	DataFile Name :	043AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	8930	8413	8633	8658	3.00	cps
Ytterbium	172-1	30529	30442	30007	30326	0.92	cps
Ytterbium	172-2	12880	12669	12596	12715	1.16	cps
Ytterbium	176-1	21100	21618	21254	21324	1.25	cps
Ytterbium	176-2	8610	8646	8583	8613	0.37	cps
Yttrium	89-1	34637626	34008943	34403919	34350163	0.93	cps
Yttrium	89-2	2384259	2410227	2397709	2397398	0.54	cps
Zinc	66-2	57091	57533	56482	57035	0.93	cps
Zirconium	90-1	70011	70326	71060	70465	0.76	cps
Zirconium	91-1	15385	15649	15529	15521	0.85	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	231710	233396	229840	231648	0.77	cps
Antimony	121-1	633	710	667	670	5.74	cps
Arsenic	75-2	2127	2124	2180	2144	1.48	cps
Barium	135-1	109999	111911	111454	111121	0.90	cps
Barium	137-1	192672	195590	195521	194594	0.86	cps
Beryllium	9-1	951	1047	957	985	5.47	cps
Bismuth	209-1	12435200	12225838	12200997	12287345	1.05	cps
Bismuth	209-2	5425540	5396544	5424416	5415500	0.30	cps
Bromine	81-1	29314	29895	29464	29558	1.02	cps
Cadmium	108-1	260	237	230	242	6.50	cps
Cadmium	106-1	11171	11428	11532	11377	1.63	cps
Cadmium	111-1	8685	8891	9051	8876	2.07	cps
Calcium	43-1	611032	621189	617976	616732	0.84	cps
Calcium	44-1	10139392	10373039	10242351	10251594	1.14	cps
Carbon	12-1	3455172	3426404	3449712	3443763	0.44	cps
Carbon	12-2	21469	21142	21876	21496	1.71	cps
Chlorine	35-1	777213	757301	729915	754810	3.15	cps
Chlorine	35-2	2404	2464	2300	2389	3.46	cps
Chromium	52-2	1573	1630	1517	1573	3.60	cps
Cobalt	59-2	92665	93095	93172	92977	0.29	cps
Copper	63-2	2184968	2165674	2118043	2156228	1.60	cps
Dysprosium	156-1	146547	148690	148811	148016	0.86	cps
Dysprosium	156-2	49568	50528	51268	50455	1.69	cps
Erbium	164-1	123789	125239	125240	124756	0.67	cps
Erbium	164-2	43411	44110	43143	43554	1.15	cps
Gadolinium	160-1	137762	140272	139682	139239	0.94	cps
Gadolinium	160-2	57413	58615	58527	58185	1.15	cps
Holmium	165-1	20886004	20711673	20952416	20850031	0.60	cps
Holmium	165-2	7511480	7525998	7496979	7511486	0.19	cps
Indium	115-1	18279741	18283895	17623460	18062365	2.10	cps
Indium	115-2	1834978	1843170	1808281	1828810	1.00	cps
Iron	54-2	5244094	5370858	5252350	5289101	1.34	cps
Iron	56-2	96415559	99064445	100313792	98597932	2.02	cps
Iron	57-2	2497088	2519875	2568861	2528608	1.45	cps
Krypton	83-1	493	400	447	447	10.45	cps
Lead	206-1	391914	392657	400953	395175	1.27	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	332857	332002	336272	333710	0.68	cps
Lead	208-1	1542924	1547873	1559850	1550216	0.56	cps
Lithium	6-1	5461256	5542199	5534176	5512544	0.81	cps
Magnesium	24-2	391501	388339	383305	387715	1.07	cps
Manganese	55-2	534483	542647	537188	538106	0.77	cps
Molybdenum	94-1	28292	28209	27968	28156	0.60	cps
Molybdenum	95-1	3157	2964	3064	3061	3.16	cps
Molybdenum	96-1	9190	8833	9380	9134	3.04	cps
Molybdenum	97-1	1673	1780	1837	1763	4.70	cps
Molybdenum	98-1	4678	4888	4611	4725	3.06	cps
Neodymium	150-1	178373	181189	180997	180186	0.87	cps
Neodymium	150-2	44861	44942	45015	44939	0.17	cps
Nickel	60-2	2080	2050	2037	2056	1.08	cps
Phosphorus	31-2	9523	10127	10017	9889	3.25	cps
Potassium	39-2	237264	242570	239409	239748	1.11	cps
Rhodium	103-1	16802942	16791959	16735581	16776827	0.22	cps
Rhodium	103-2	6537578	6545506	6463716	6515600	0.69	cps
Scandium	45-1	11408367	11436128	11714492	11519662	1.47	cps
Scandium	45-2	192437	193205	191822	192488	0.36	cps
Selenium	82-1	257	310	243	270	13.07	cps
Selenium	77-2	253	203	233	230	10.94	cps
Selenium	78-2	120	193	150	154	23.87	cps
Silicon	28-1	14277897	14362726	14372966	14337863	0.36	cps
Silver	107-1	2417	2370	2534	2440	3.45	cps
Silver	109-1	2004	2087	2100	2064	2.54	cps
Sodium	23-2	80343	81758	80112	80737	1.10	cps
Strontium	86-1	40355	40468	40706	40510	0.44	cps
Strontium	88-1	349828	347996	354399	350741	0.94	cps
Sulfur	34-1	551935	551595	551595	551709	0.04	cps
Terbium	159-1	21709876	21693176	21084559	21495870	1.66	cps
Terbium	159-2	7378460	7252800	7420377	7350545	1.19	cps
Thallium	203-1	2580	2620	2514	2571	2.10	cps
Thallium	205-1	5921	5758	6011	5897	2.18	cps
Tin	118-1	8433	8129	7782	8115	4.01	cps
Titanium	47-1	716945	724971	729758	723891	0.89	cps
Uranium	238-1	17896	17749	18040	17895	0.81	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01DUPDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066DUPDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:45:26	DataFile Name :	044AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	9440	9397	8910	9249	3.18	cps
Ytterbium	172-1	30866	31210	31060	31045	0.56	cps
Ytterbium	172-2	13797	13737	13444	13659	1.39	cps
Ytterbium	176-1	21728	21965	21715	21803	0.65	cps
Ytterbium	176-2	8870	9380	8973	9074	2.97	cps
Yttrium	89-1	35205364	35029941	34821837	35019047	0.55	cps
Yttrium	89-2	2410826	2482581	2428338	2440582	1.53	cps
Zinc	66-2	59990	61094	59919	60334	1.09	cps
Zirconium	90-1	71941	74142	73402	73162	1.53	cps
Zirconium	91-1	15455	16183	16149	15929	2.58	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	42305	42248	43077	42543	1.09	cps
Antimony	121-1	403	407	447	419	5.76	cps
Arsenic	75-2	413	400	380	398	4.22	cps
Barium	135-1	20703	20873	21273	20950	1.40	cps
Barium	137-1	36917	36733	37194	36948	0.63	cps
Beryllium	9-1	301	325	299	308	4.70	cps
Bismuth	209-1	12449565	12428027	12417336	12431643	0.13	cps
Bismuth	209-2	5282869	5308553	5441762	5344395	1.60	cps
Bromine	81-1	29331	29762	29702	29598	0.79	cps
Cadmium	108-1	80	100	47	76	35.66	cps
Cadmium	106-1	10461	10347	10221	10343	1.16	cps
Cadmium	111-1	7550	7360	7402	7437	1.34	cps
Calcium	43-1	118006	118163	118469	118213	0.20	cps
Calcium	44-1	2033523	1993679	1972241	1999814	1.56	cps
Carbon	12-1	3482692	3385000	3322327	3396673	2.38	cps
Carbon	12-2	21202	20578	21256	21012	1.79	cps
Chlorine	35-1	519887	505023	496573	507161	2.33	cps
Chlorine	35-2	1703	1580	1690	1658	4.08	cps
Chromium	52-2	1173	1180	1153	1169	1.19	cps
Cobalt	59-2	17044	18018	17671	17578	2.81	cps
Copper	63-2	393263	395391	392083	393579	0.43	cps
Dysprosium	156-1	27682	28080	28056	27939	0.80	cps
Dysprosium	156-2	9387	9510	9507	9468	0.74	cps
Erbium	164-1	23371	23427	24469	23756	2.60	cps
Erbium	164-2	8113	8269	8406	8263	1.78	cps
Gadolinium	160-1	26713	25872	26533	26373	1.68	cps
Gadolinium	160-2	11542	11665	11178	11462	2.21	cps
Holmium	165-1	20742693	20672241	20861852	20758929	0.46	cps
Holmium	165-2	7247927	7413469	7354434	7338610	1.14	cps
Indium	115-1	18138948	18065051	17871641	18025214	0.77	cps
Indium	115-2	1792653	1753488	1841239	1795793	2.45	cps
Iron	54-2	957290	959078	960653	959007	0.18	cps
Iron	56-2	18588518	18371378	18789200	18583032	1.12	cps
Iron	57-2	443878	444928	448641	445816	0.56	cps
Krypton	83-1	270	350	257	292	17.27	cps
Lead	206-1	74579	76514	76293	75795	1.40	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	63059	63933	64098	63697	0.88	cps
Lead	208-1	294620	296245	295360	295409	0.28	cps
Lithium	6-1	5381013	5451303	5596808	5476374	2.01	cps
Magnesium	24-2	73926	73712	71464	73034	1.87	cps
Manganese	55-2	103136	101645	102279	102353	0.73	cps
Molybdenum	94-1	5791	6125	6198	6038	3.59	cps
Molybdenum	95-1	733	603	710	682	10.16	cps
Molybdenum	96-1	2077	2000	1890	1989	4.72	cps
Molybdenum	97-1	410	423	420	418	1.66	cps
Molybdenum	98-1	1090	1107	1080	1092	1.23	cps
Neodymium	150-1	34648	34591	33659	34299	1.62	cps
Neodymium	150-2	8456	8576	8539	8524	0.72	cps
Nickel	60-2	507	630	533	557	11.66	cps
Phosphorus	31-2	1987	1973	1980	1980	0.34	cps
Potassium	39-2	56366	55998	56339	56235	0.36	cps
Rhodium	103-1	16837196	16971623	16802073	16870298	0.53	cps
Rhodium	103-2	6481639	6375694	6579164	6478832	1.57	cps
Scandium	45-1	11679237	11621835	11474274	11591782	0.91	cps
Scandium	45-2	189241	190719	194772	191578	1.49	cps
Selenium	82-1	123	73	80	92	29.44	cps
Selenium	77-2	60	50	40	50	20.00	cps
Selenium	78-2	37	37	40	38	5.09	cps
Silicon	28-1	3033729	3043868	3051311	3042969	0.29	cps
Silver	107-1	713	637	743	698	7.88	cps
Silver	109-1	573	503	643	573	12.21	cps
Sodium	23-2	36218	37000	35767	36329	1.72	cps
Strontium	86-1	8126	7979	8229	8111	1.55	cps
Strontium	88-1	67596	67194	66370	67053	0.93	cps
Sulfur	34-1	527625	528106	530758	528830	0.32	cps
Terbium	159-1	22025000	21521932	21468496	21671809	1.42	cps
Terbium	159-2	7085461	7053453	7284370	7141095	1.75	cps
Thallium	203-1	1063	943	993	1000	6.03	cps
Thallium	205-1	2204	2484	2264	2317	6.36	cps
Tin	118-1	4167	4024	3951	4047	2.72	cps
Titanium	47-1	134814	133336	133447	133866	0.61	cps
Uranium	238-1	3374	3304	3577	3418	4.15	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01LDL2X125	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066LDL2	Dilution Factor :	125
Date & Time Acquired :	2025-05-13 17:48:42	DataFile Name :	045AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1763	1680	1740	1728	2.49	cps
Ytterbium	172-1	6155	6145	6105	6135	0.43	cps
Ytterbium	172-2	2457	2554	2664	2558	4.04	cps
Ytterbium	176-1	6068	6465	6068	6200	3.70	cps
Ytterbium	176-2	2250	2224	2187	2220	1.43	cps
Yttrium	89-1	33271922	33733815	33071299	33359012	1.02	cps
Yttrium	89-2	2258612	2292038	2312413	2287688	1.19	cps
Zinc	66-2	12919	12933	12889	12914	0.17	cps
Zirconium	90-1	15272	15552	15145	15323	1.36	cps
Zirconium	91-1	3220	3460	3410	3364	3.77	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3629477	3617816	3646277	3631190	0.39	cps
Antimony	121-1	12181742	12119635	12410836	12237404	1.25	cps
Arsenic	75-2	222137	224606	223657	223467	0.56	cps
Barium	135-1	14468664	14711555	14669194	14616471	0.89	cps
Barium	137-1	25172356	25244687	25344069	25253704	0.34	cps
Beryllium	9-1	2480477	2493566	2505622	2493222	0.50	cps
Bismuth	209-1	10512245	10324167	10537535	10457982	1.11	cps
Bismuth	209-2	4555893	4575782	4637754	4589810	0.93	cps
Bromine	81-1	27908	26989	26422	27106	2.77	cps
Cadmium	108-1	227066	230062	229629	228919	0.71	cps
Cadmium	106-1	332503	336786	332506	333932	0.74	cps
Cadmium	111-1	2990165	3005957	3014094	3003405	0.41	cps
Calcium	43-1	18873270	18546383	18857151	18758934	0.98	cps
Calcium	44-1	309466482	302768982	305270009	305835158	1.11	cps
Carbon	12-1	3894565	4020802	3964712	3960026	1.60	cps
Carbon	12-2	29483	29807	29463	29584	0.65	cps
Chlorine	35-1	437183	432122	431634	433647	0.71	cps
Chlorine	35-2	1590	1560	1477	1542	3.81	cps
Chromium	52-2	2309495	2343995	2325377	2326289	0.74	cps
Cobalt	59-2	4144507	4245732	4178238	4189492	1.23	cps
Copper	63-2	32318928	32586460	32409453	32438280	0.42	cps
Dysprosium	156-1	850	887	767	834	7.37	cps
Dysprosium	156-2	177	150	203	177	15.10	cps
Erbium	164-1	607	740	687	678	9.90	cps
Erbium	164-2	257	223	183	221	16.60	cps
Gadolinium	160-1	553	573	570	566	1.89	cps
Gadolinium	160-2	187	213	210	203	7.15	cps
Holmium	165-1	19039183	19316695	19107303	19154394	0.76	cps
Holmium	165-2	6909490	6917193	6964258	6930314	0.43	cps
Indium	115-1	15809921	15371007	15743144	15641357	1.51	cps
Indium	115-2	1442667	1450766	1450398	1447943	0.32	cps
Iron	54-2	22429341	22815055	22909792	22718063	1.12	cps
Iron	56-2	421916514	417427660	420891007	420078394	0.56	cps
Iron	57-2	10350433	10397214	10492048	10413232	0.69	cps
Krypton	83-1	337	287	303	309	8.24	cps
Lead	206-1	41287354	41491873	41692794	41490674	0.49	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35299007	35711925	35356019	35455651	0.63	cps
Lead	208-1	163690360	164030230	163781625	163834072	0.11	cps
Lithium	6-1	4826015	4904569	5008194	4912926	1.86	cps
Magnesium	24-2	64522679	63160236	64372064	64018326	1.17	cps
Manganese	55-2	9339215	9498198	9364999	9400804	0.91	cps
Molybdenum	94-1	43727758	43651863	43728529	43702717	0.10	cps
Molybdenum	95-1	62638072	62953879	62564547	62718833	0.33	cps
Molybdenum	96-1	67743621	68517356	67077274	67779417	1.06	cps
Molybdenum	97-1	38435204	38527351	38185896	38382817	0.46	cps
Molybdenum	98-1	101023595	100149149	100988822	100720522	0.49	cps
Neodymium	150-1	1273	1220	1263	1252	2.26	cps
Neodymium	150-2	120	107	73	100	24.04	cps
Nickel	60-2	1075146	1091099	1079213	1081819	0.77	cps
Phosphorus	31-2	33933	34879	34057	34289	1.50	cps
Potassium	39-2	20390470	21052010	20230143	20557541	2.12	cps
Rhodium	103-1	14020086	13894956	14012091	13975711	0.50	cps
Rhodium	103-2	5503390	5495391	5351448	5450076	1.57	cps
Scandium	45-1	10241563	10419608	10291962	10317711	0.89	cps
Scandium	45-2	177066	179186	177368	177873	0.64	cps
Selenium	82-1	172649	176182	174592	174475	1.01	cps
Selenium	77-2	2674	2740	2817	2744	2.61	cps
Selenium	78-2	9493	9130	9206	9276	2.07	cps
Silicon	28-1	56211119	57391896	56375472	56659496	1.13	cps
Silver	107-1	14389544	14847736	14684203	14640494	1.59	cps
Silver	109-1	13817384	13945483	14024236	13929034	0.75	cps
Sodium	23-2	128165191	128266888	130432948	128955009	0.99	cps
Strontium	86-1	4012040	4034876	4041901	4029606	0.39	cps
Strontium	88-1	35157681	35391137	35306239	35285019	0.33	cps
Sulfur	34-1	1463217	1459866	1434749	1452611	1.07	cps
Terbium	159-1	19594469	19781343	19827707	19734506	0.63	cps
Terbium	159-2	6682295	6754578	6678043	6704972	0.64	cps
Thallium	203-1	10198558	10309227	10223166	10243650	0.57	cps
Thallium	205-1	24152363	24484110	24200356	24278943	0.74	cps
Tin	118-1	9805657	9806490	9946959	9853035	0.83	cps
Titanium	47-1	17041416	17318493	16962304	17107404	1.09	cps
Uranium	238-1	31691882	31880404	32657008	32076431	1.59	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV03	Instrumnet Name :	P8
Client Sample ID :	CCV03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:51:58	DataFile Name :	046CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1741978	1786105	1792292	1773458	1.55	cps
Ytterbium	172-1	933	947	1007	962	4.06	cps
Ytterbium	172-2	310	403	353	356	13.14	cps
Ytterbium	176-1	52133	53016	53183	52777	1.07	cps
Ytterbium	176-2	18279	18583	18600	18487	0.98	cps
Yttrium	89-1	30458920	30117052	30171640	30249204	0.61	cps
Yttrium	89-2	2117634	2069775	2053812	2080407	1.60	cps
Zinc	66-2	3604293	3584302	3609761	3599452	0.37	cps
Zirconium	90-1	21948574	21892515	21850624	21897237	0.22	cps
Zirconium	91-1	4839532	4872186	4867371	4859696	0.36	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	2207	2127	2227	2187	2.42	cps
Antimony	121-1	3447	3200	2680	3109	12.59	cps
Arsenic	75-2	10	7	10	9	21.63	cps
Barium	135-1	493	410	397	433	12.09	cps
Barium	137-1	857	697	627	727	16.22	cps
Beryllium	9-1	451	364	335	383	15.80	cps
Bismuth	209-1	12730519	12529248	12646711	12635493	0.80	cps
Bismuth	209-2	5369934	5435100	5419114	5408049	0.63	cps
Bromine	81-1	27343	27771	27323	27479	0.92	cps
Cadmium	108-1	53	63	53	57	10.19	cps
Cadmium	106-1	10671	10087	10150	10303	3.11	cps
Cadmium	111-1	7589	7217	7188	7331	3.05	cps
Calcium	43-1	1330	1130	1110	1190	10.22	cps
Calcium	44-1	31325	29675	28970	29990	4.03	cps
Carbon	12-1	3713651	3631767	3596218	3647212	1.65	cps
Carbon	12-2	23335	22938	23382	23218	1.05	cps
Chlorine	35-1	359614	361871	358031	359839	0.54	cps
Chlorine	35-2	1220	1100	1190	1170	5.34	cps
Chromium	52-2	1060	1120	1073	1084	2.91	cps
Cobalt	59-2	173	183	153	170	8.99	cps
Copper	63-2	1720	1853	1820	1798	3.86	cps
Dysprosium	156-1	163	147	150	153	5.75	cps
Dysprosium	156-2	13	7	7	9	43.25	cps
Erbium	164-1	160	147	120	142	14.32	cps
Erbium	164-2	67	63	37	56	29.59	cps
Gadolinium	160-1	127	63	123	104	34.13	cps
Gadolinium	160-2	20	30	37	29	29.04	cps
Holmium	165-1	20554716	20625022	20247948	20475895	0.98	cps
Holmium	165-2	7480281	7355967	7343517	7393255	1.02	cps
Indium	115-1	17696058	17848418	17770512	17771663	0.43	cps
Indium	115-2	1761465	1787218	1774190	1774291	0.73	cps
Iron	54-2	1037	1063	1087	1062	2.36	cps
Iron	56-2	15599	14130	14347	14692	5.40	cps
Iron	57-2	353	323	437	371	15.82	cps
Krypton	83-1	233	343	233	270	23.52	cps
Lead	206-1	4201	3684	3447	3777	10.20	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3287	3234	2880	3134	7.05	cps
Lead	208-1	15707	14450	13333	14497	8.19	cps
Lithium	6-1	5630758	5718650	5617091	5655499	0.97	cps
Magnesium	24-2	1310	1243	1210	1255	4.06	cps
Manganese	55-2	2570	2440	2337	2449	4.77	cps
Molybdenum	94-1	3244	2674	2660	2859	11.65	cps
Molybdenum	95-1	2544	2054	1660	2086	21.22	cps
Molybdenum	96-1	2957	2637	2337	2644	11.73	cps
Molybdenum	97-1	1493	1320	1023	1279	18.59	cps
Molybdenum	98-1	3997	3104	2617	3239	21.61	cps
Neodymium	150-1	43	27	37	36	23.58	cps
Neodymium	150-2	7	3	3	4	43.40	cps
Nickel	60-2	263	233	263	253	6.84	cps
Phosphorus	31-2	97	110	90	99	10.30	cps
Potassium	39-2	13496	12986	13450	13311	2.12	cps
Rhodium	103-1	16736745	16474808	16644914	16618822	0.80	cps
Rhodium	103-2	6519970	6494328	6386739	6467012	1.09	cps
Scandium	45-1	11100754	11364200	11218071	11227675	1.18	cps
Scandium	45-2	191309	189557	188864	189910	0.66	cps
Selenium	82-1	60	-23	10	16	269.61	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	7	33	7	16	98.94	cps
Silicon	28-1	457523	451962	446136	451873	1.26	cps
Silver	107-1	1687	1313	1033	1345	24.38	cps
Silver	109-1	1387	1150	897	1145	21.41	cps
Sodium	23-2	35801	35580	35246	35542	0.79	cps
Strontium	86-1	583	497	520	533	8.41	cps
Strontium	88-1	1227	1093	1083	1135	7.05	cps
Sulfur	34-1	536266	537731	539945	537980	0.34	cps
Terbium	159-1	21748861	21519594	21622025	21630160	0.53	cps
Terbium	159-2	7081264	7106556	7238803	7142208	1.18	cps
Thallium	203-1	1293	1150	1020	1155	11.84	cps
Thallium	205-1	2714	2797	2664	2725	2.47	cps
Tin	118-1	5308	4868	4971	5049	4.56	cps
Titanium	47-1	740	687	580	669	12.18	cps
Uranium	238-1	860	583	523	656	27.39	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB03	Instrumnet Name :	P8
Client Sample ID :	CCB03	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 17:54:45	DataFile Name :	047CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	40	50	43	13.32	cps
Ytterbium	172-1	147	140	130	139	6.04	cps
Ytterbium	172-2	43	67	57	56	21.08	cps
Ytterbium	176-1	2530	2440	2424	2465	2.33	cps
Ytterbium	176-2	660	597	583	613	6.68	cps
Yttrium	89-1	32411872	32038790	31988297	32146320	0.72	cps
Yttrium	89-2	2276823	2207791	2204911	2229841	1.83	cps
Zinc	66-2	633	663	697	664	4.77	cps
Zirconium	90-1	4744	4364	4177	4429	6.52	cps
Zirconium	91-1	1090	1000	823	971	13.97	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	103367	102928	100853	102383	1.31	cps
Antimony	121-1	463586	471974	469439	468333	0.92	cps
Arsenic	75-2	840	977	1017	944	9.81	cps
Barium	135-1	540770	550439	550090	547100	1.00	cps
Barium	137-1	936337	963792	949394	949841	1.45	cps
Beryllium	9-1	102858	104849	104227	103978	0.98	cps
Bismuth	209-1	12452340	11977523	12494869	12308244	2.33	cps
Bismuth	209-2	5380006	5461651	5406242	5415967	0.77	cps
Bromine	81-1	28723	29100	28967	28930	0.66	cps
Cadmium	108-1	8876	8643	9110	8876	2.63	cps
Cadmium	106-1	24171	24258	24068	24166	0.39	cps
Cadmium	111-1	125040	127234	126223	126166	0.87	cps
Calcium	43-1	456683	461551	461087	459774	0.58	cps
Calcium	44-1	7575966	7750588	7538646	7621733	1.48	cps
Carbon	12-1	3555631	3516407	3407424	3493154	2.20	cps
Carbon	12-2	21816	21633	21399	21616	0.97	cps
Chlorine	35-1	2927930	3217968	3306846	3150914	6.29	cps
Chlorine	35-2	12656	12752	13193	12867	2.23	cps
Chromium	52-2	87988	86436	85376	86600	1.52	cps
Cobalt	59-2	206715	206313	205964	206331	0.18	cps
Copper	63-2	2529692	2513463	2538397	2527184	0.50	cps
Dysprosium	156-1	81131	81801	83746	82226	1.65	cps
Dysprosium	156-2	27799	27445	27181	27475	1.13	cps
Erbium	164-1	68465	69048	68308	68607	0.57	cps
Erbium	164-2	23447	22833	23337	23206	1.41	cps
Gadolinium	160-1	77034	76417	77956	77136	1.00	cps
Gadolinium	160-2	32192	32312	31898	32134	0.66	cps
Holmium	165-1	20361064	20687889	20048088	20365680	1.57	cps
Holmium	165-2	7526275	7568187	7522322	7538928	0.34	cps
Indium	115-1	17662122	17549281	17877012	17696139	0.94	cps
Indium	115-2	1758672	1810171	1837001	1801948	2.21	cps
Iron	54-2	2058437	1996077	1989777	2014764	1.88	cps
Iron	56-2	36688330	36714853	36580391	36661191	0.19	cps
Iron	57-2	879547	892239	882861	884882	0.74	cps
Krypton	83-1	370	350	407	376	7.65	cps
Lead	206-1	1965352	2017098	2028976	2003809	1.69	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1695770	1620793	1725746	1680770	3.22	cps
Lead	208-1	7836301	7900227	7952347	7896292	0.74	cps
Lithium	6-1	5537181	5701591	5592311	5610361	1.49	cps
Magnesium	24-2	665127	668904	650176	661402	1.50	cps
Manganese	55-2	568660	567498	568621	568260	0.12	cps
Molybdenum	94-1	779780	791047	790085	786971	0.79	cps
Molybdenum	95-1	840722	841800	853265	845263	0.82	cps
Molybdenum	96-1	943910	950820	948571	947767	0.37	cps
Molybdenum	97-1	522503	522352	523352	522736	0.10	cps
Molybdenum	98-1	1348389	1345735	1429265	1374463	3.45	cps
Neodymium	150-1	99223	100408	101168	100266	0.98	cps
Neodymium	150-2	24937	24613	24472	24674	0.96	cps
Nickel	60-2	47757	48288	48071	48039	0.56	cps
Phosphorus	31-2	5705	5728	5664	5699	0.56	cps
Potassium	39-2	257776	262339	259242	259786	0.90	cps
Rhodium	103-1	16697278	16455309	16472688	16541758	0.82	cps
Rhodium	103-2	6484124	6487992	6515297	6495804	0.26	cps
Scandium	45-1	11365534	11445461	11521094	11444030	0.68	cps
Scandium	45-2	193118	193789	191809	192905	0.52	cps
Selenium	82-1	7149	7442	7105	7232	2.53	cps
Selenium	77-2	270	297	257	274	7.42	cps
Selenium	78-2	430	590	480	500	16.37	cps
Silicon	28-1	6327438	6323423	6524258	6391706	1.80	cps
Silver	107-1	99280	101691	101986	100986	1.47	cps
Silver	109-1	95374	97159	94541	95691	1.40	cps
Sodium	23-2	1127270	1097701	1084624	1103198	1.98	cps
Strontium	86-1	199997	200851	202698	201182	0.69	cps
Strontium	88-1	1887398	1878275	1873670	1879781	0.37	cps
Sulfur	34-1	556677	555601	553798	555359	0.26	cps
Terbium	159-1	21335894	21354207	21542549	21410883	0.53	cps
Terbium	159-2	7160170	7348496	7221358	7243341	1.33	cps
Thallium	203-1	393551	397321	399988	396953	0.81	cps
Thallium	205-1	941382	951986	946096	946488	0.56	cps
Tin	118-1	341438	345072	348413	344974	1.01	cps
Titanium	47-1	252333	253468	253666	253156	0.28	cps
Uranium	238-1	1192139	1195067	1220242	1202483	1.28	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 17:58:05	DataFile Name :	048AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	70720	71966	70630	71105	1.05	cps
Ytterbium	172-1	15039	15513	15629	15393	2.03	cps
Ytterbium	172-2	6905	6835	6708	6816	1.46	cps
Ytterbium	176-1	14208	13951	14284	14148	1.24	cps
Ytterbium	176-2	5328	5134	5314	5259	2.05	cps
Yttrium	89-1	33830641	33364810	33695230	33630227	0.71	cps
Yttrium	89-2	2319488	2323033	2305438	2315986	0.40	cps
Zinc	66-2	178357	176247	177399	177334	0.60	cps
Zirconium	90-1	818119	829787	846506	831471	1.72	cps
Zirconium	91-1	183251	186838	185349	185146	0.97	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	127100	126851	126458	126803	0.26	cps
Antimony	121-1	523676	528749	523211	525212	0.58	cps
Arsenic	75-2	983	1003	1093	1027	5.71	cps
Barium	135-1	566329	573288	572407	570675	0.66	cps
Barium	137-1	985002	995808	999250	993353	0.75	cps
Beryllium	9-1	105393	105928	105372	105564	0.30	cps
Bismuth	209-1	12245617	12467937	12545841	12419799	1.25	cps
Bismuth	209-2	5325170	5334532	5357772	5339158	0.31	cps
Bromine	81-1	29411	29575	29074	29353	0.87	cps
Cadmium	108-1	9363	9163	9313	9280	1.12	cps
Cadmium	106-1	24342	25053	24385	24593	1.62	cps
Cadmium	111-1	125574	128243	126776	126864	1.05	cps
Calcium	43-1	476577	483654	479047	479759	0.75	cps
Calcium	44-1	8081060	7873392	8082766	8012406	1.50	cps
Carbon	12-1	3537940	3436283	3447945	3474056	1.60	cps
Carbon	12-2	21706	21499	21299	21501	0.95	cps
Chlorine	35-1	3193039	3412226	3476370	3360545	4.42	cps
Chlorine	35-2	13370	13633	13230	13411	1.53	cps
Chromium	52-2	88280	87274	87106	87554	0.73	cps
Cobalt	59-2	215538	212861	212455	213618	0.78	cps
Copper	63-2	2671807	2676568	2685742	2678039	0.26	cps
Dysprosium	156-1	78163	78904	79786	78951	1.03	cps
Dysprosium	156-2	26072	26206	26837	26372	1.55	cps
Erbium	164-1	66652	66827	65453	66311	1.13	cps
Erbium	164-2	22496	23200	22339	22678	2.02	cps
Gadolinium	160-1	72030	74996	73970	73665	2.05	cps
Gadolinium	160-2	31480	31203	30876	31186	0.97	cps
Holmium	165-1	20868721	20769398	20632938	20757019	0.57	cps
Holmium	165-2	7478508	7479838	7395534	7451293	0.65	cps
Indium	115-1	17982171	17999569	17821327	17934356	0.55	cps
Indium	115-2	1810200	1780072	1784039	1791437	0.91	cps
Iron	54-2	2210415	2216944	2198086	2208482	0.43	cps
Iron	56-2	40313151	40111104	40608932	40344396	0.62	cps
Iron	57-2	987347	973316	983109	981257	0.73	cps
Krypton	83-1	437	397	443	426	5.93	cps
Lead	206-1	1986633	2010402	2011505	2002847	0.70	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1614040	1691419	1698864	1668108	2.82	cps
Lead	208-1	7799944	7912051	7952042	7888012	1.00	cps
Lithium	6-1	5486745	5555752	5531390	5524629	0.63	cps
Magnesium	24-2	694764	686780	690954	690833	0.58	cps
Manganese	55-2	579769	579441	581468	580226	0.19	cps
Molybdenum	94-1	786543	799792	796568	794301	0.87	cps
Molybdenum	95-1	845381	849027	852834	849081	0.44	cps
Molybdenum	96-1	942645	961489	957865	954000	1.05	cps
Molybdenum	97-1	529609	530299	526319	528742	0.40	cps
Molybdenum	98-1	1356962	1442626	1438421	1412670	3.42	cps
Neodymium	150-1	95447	96296	97534	96426	1.09	cps
Neodymium	150-2	23537	23517	23571	23542	0.11	cps
Nickel	60-2	49693	48984	49205	49294	0.74	cps
Phosphorus	31-2	6068	5761	5681	5837	3.50	cps
Potassium	39-2	311850	310663	312804	311773	0.34	cps
Rhodium	103-1	16315129	16653065	16902611	16623602	1.77	cps
Rhodium	103-2	6551160	6388384	6435029	6458191	1.30	cps
Scandium	45-1	11492646	11325226	11478836	11432236	0.81	cps
Scandium	45-2	194948	193887	195170	194668	0.35	cps
Selenium	82-1	7606	7672	7449	7576	1.51	cps
Selenium	77-2	273	220	200	231	16.40	cps
Selenium	78-2	490	440	453	461	5.61	cps
Silicon	28-1	5179499	5120415	5249067	5182994	1.24	cps
Silver	107-1	101275	102577	102544	102132	0.73	cps
Silver	109-1	95766	97613	98435	97271	1.41	cps
Sodium	23-2	1130235	1136031	1105087	1123784	1.46	cps
Strontium	86-1	220511	221663	222164	221446	0.38	cps
Strontium	88-1	2042266	2049025	2044707	2045333	0.17	cps
Sulfur	34-1	560236	559650	553144	557677	0.71	cps
Terbium	159-1	21264487	21831291	21779576	21625118	1.45	cps
Terbium	159-2	7402639	7195007	7379190	7325612	1.55	cps
Thallium	203-1	399044	400893	404939	401625	0.75	cps
Thallium	205-1	959669	961263	963179	961370	0.18	cps
Tin	118-1	346010	352120	355905	351345	1.42	cps
Titanium	47-1	347736	350729	349793	349419	0.44	cps
Uranium	238-1	1199777	1222335	1222528	1214880	1.08	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01MSDDL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066MSDDL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:01:19	DataFile Name :	049AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	73478	71695	73883	73018	1.59	cps
Ytterbium	172-1	15089	15296	14945	15110	1.17	cps
Ytterbium	172-2	6178	6395	6335	6303	1.78	cps
Ytterbium	176-1	13177	13927	13837	13647	3.00	cps
Ytterbium	176-2	5204	5324	5274	5268	1.14	cps
Yttrium	89-1	33455811	34021817	34281207	33919612	1.24	cps
Yttrium	89-2	2306870	2322417	2321152	2316813	0.37	cps
Zinc	66-2	182269	179987	180365	180874	0.68	cps
Zirconium	90-1	829969	851489	848480	843313	1.38	cps
Zirconium	91-1	184372	189361	188638	187457	1.44	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	123103	121395	124282	122927	1.18	cps
Antimony	121-1	568383	570666	570995	570015	0.25	cps
Arsenic	75-2	1063	967	1053	1028	5.17	cps
Barium	135-1	563145	568902	567923	566657	0.54	cps
Barium	137-1	977692	987747	990575	985338	0.69	cps
Beryllium	9-1	103563	105155	105226	104648	0.90	cps
Bismuth	209-1	12542910	12398006	12437213	12459376	0.60	cps
Bismuth	209-2	5575957	5351721	5383948	5437209	2.23	cps
Bromine	81-1	28990	28185	28710	28628	1.43	cps
Cadmium	108-1	9040	9277	9206	9174	1.33	cps
Cadmium	106-1	23934	24512	25036	24494	2.25	cps
Cadmium	111-1	123667	126299	127078	125681	1.42	cps
Calcium	43-1	474274	478647	480521	477814	0.67	cps
Calcium	44-1	7873448	8023924	7950146	7949173	0.95	cps
Carbon	12-1	3442064	3466240	3392252	3433518	1.10	cps
Carbon	12-2	21883	22350	21489	21908	1.97	cps
Chlorine	35-1	3194993	3402470	3569273	3388912	5.53	cps
Chlorine	35-2	13280	12923	13286	13163	1.58	cps
Chromium	52-2	87555	85889	86462	86636	0.98	cps
Cobalt	59-2	208610	212445	206868	209308	1.36	cps
Copper	63-2	2599490	2580238	2666195	2615307	1.72	cps
Dysprosium	156-1	75605	79357	79186	78049	2.71	cps
Dysprosium	156-2	26229	25698	25888	25939	1.04	cps
Erbium	164-1	64382	65333	67088	65601	2.09	cps
Erbium	164-2	22015	22529	22830	22458	1.83	cps
Gadolinium	160-1	72931	73933	74540	73801	1.10	cps
Gadolinium	160-2	30535	30872	30842	30750	0.61	cps
Holmium	165-1	20666933	20869181	20875315	20803810	0.57	cps
Holmium	165-2	7653656	7513622	7546169	7571149	0.97	cps
Indium	115-1	17758904	18057033	18035679	17950539	0.93	cps
Indium	115-2	1838219	1772887	1803674	1804927	1.81	cps
Iron	54-2	2179718	2185661	2155503	2173628	0.73	cps
Iron	56-2	39362077	40176679	40072495	39870417	1.11	cps
Iron	57-2	955784	972184	973380	967116	1.02	cps
Krypton	83-1	400	307	357	354	13.18	cps
Lead	206-1	1953045	1944334	1995705	1964361	1.40	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1582009	1620239	1609624	1603957	1.23	cps
Lead	208-1	7708115	7727519	7733420	7723018	0.17	cps
Lithium	6-1	5596557	5454454	5690010	5580340	2.13	cps
Magnesium	24-2	670282	674437	678114	674277	0.58	cps
Manganese	55-2	565078	570186	569966	568410	0.51	cps
Molybdenum	94-1	783049	793895	783397	786780	0.78	cps
Molybdenum	95-1	842509	837020	847329	842286	0.61	cps
Molybdenum	96-1	937777	943791	958947	946838	1.15	cps
Molybdenum	97-1	521083	526834	518828	522248	0.79	cps
Molybdenum	98-1	1328124	1352302	1343501	1341309	0.91	cps
Neodymium	150-1	94547	95537	95194	95093	0.53	cps
Neodymium	150-2	23507	23668	23818	23664	0.66	cps
Nickel	60-2	47225	48696	48753	48225	1.80	cps
Phosphorus	31-2	5588	5828	5544	5653	2.70	cps
Potassium	39-2	306617	312591	310339	309849	0.97	cps
Rhodium	103-1	16493507	16738466	16605776	16612583	0.74	cps
Rhodium	103-2	6673749	6403576	6457205	6511510	2.20	cps
Scandium	45-1	11458275	11585822	11523536	11522544	0.55	cps
Scandium	45-2	195634	195001	193596	194744	0.54	cps
Selenium	82-1	7222	7759	7159	7380	4.47	cps
Selenium	77-2	223	243	297	254	14.90	cps
Selenium	78-2	553	460	490	501	9.51	cps
Silicon	28-1	5136324	5154535	5132492	5141117	0.23	cps
Silver	107-1	99592	101705	102229	101175	1.38	cps
Silver	109-1	94773	96992	98804	96856	2.08	cps
Sodium	23-2	1065817	1128421	1106176	1100138	2.88	cps
Strontium	86-1	218808	218799	220045	219217	0.33	cps
Strontium	88-1	1985362	2033805	2036789	2018652	1.43	cps
Sulfur	34-1	555984	551142	554426	553850	0.45	cps
Terbium	159-1	21659612	21574716	21796168	21676832	0.52	cps
Terbium	159-2	7424628	7152707	7348970	7308768	1.92	cps
Thallium	203-1	397256	400388	400389	399345	0.45	cps
Thallium	205-1	941758	960562	946761	949693	1.03	cps
Tin	118-1	345316	350113	351139	348856	0.89	cps
Titanium	47-1	340700	346056	349591	345449	1.30	cps
Uranium	238-1	1183971	1209526	1210850	1201449	1.26	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	Q1955-01ADL2X25	Instrumnet Name :	P8
Client Sample ID :	LAW-25-0066ADL2	Dilution Factor :	25
Date & Time Acquired :	2025-05-13 18:04:29	DataFile Name :	050AREF.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	70094	71119	72201	71138	1.48	cps
Ytterbium	172-1	14808	15172	15356	15112	1.84	cps
Ytterbium	172-2	6335	6365	6295	6332	0.55	cps
Ytterbium	176-1	13323	13327	13547	13399	0.96	cps
Ytterbium	176-2	5151	5184	5224	5187	0.71	cps
Yttrium	89-1	33145227	33879111	33431471	33485270	1.10	cps
Yttrium	89-2	2374387	2324748	2364150	2354428	1.11	cps
Zinc	66-2	177891	176724	177976	177530	0.39	cps
Zirconium	90-1	819920	843713	839119	834251	1.51	cps
Zirconium	91-1	183045	184237	186625	184636	0.99	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	127	123	130	127	2.63	cps
Antimony	121-1	277	260	260	266	3.62	cps
Arsenic	75-2	7	0	7	4	86.60	cps
Barium	135-1	163	143	157	154	6.59	cps
Barium	137-1	240	227	267	244	8.33	cps
Beryllium	9-1	146	179	165	163	9.99	cps
Bismuth	209-1	12496511	12561419	12484804	12514245	0.33	cps
Bismuth	209-2	5452820	5474010	5452544	5459792	0.23	cps
Bromine	81-1	28115	27861	28452	28143	1.05	cps
Cadmium	108-1	40	50	33	41	20.41	cps
Cadmium	106-1	10537	9830	10130	10166	3.49	cps
Cadmium	111-1	7408	6910	7095	7137	3.53	cps
Calcium	43-1	887	797	847	843	5.35	cps
Calcium	44-1	24519	24221	24318	24353	0.62	cps
Carbon	12-1	3647873	3548825	3561487	3586062	1.50	cps
Carbon	12-2	23355	22150	22097	22534	3.16	cps
Chlorine	35-1	590405	551044	515528	552326	6.78	cps
Chlorine	35-2	1630	1547	1557	1578	2.88	cps
Chromium	52-2	1033	1107	1083	1074	3.49	cps
Cobalt	59-2	123	110	113	116	6.01	cps
Copper	63-2	1207	1283	1310	1267	4.24	cps
Dysprosium	156-1	110	73	143	109	32.16	cps
Dysprosium	156-2	7	13	13	11	34.61	cps
Erbium	164-1	113	137	133	128	9.88	cps
Erbium	164-2	43	63	50	52	19.50	cps
Gadolinium	160-1	113	97	157	122	25.34	cps
Gadolinium	160-2	37	37	37	37	0.00	cps
Holmium	165-1	20311898	20535928	20993005	20613610	1.68	cps
Holmium	165-2	7475996	7416111	7554685	7482264	0.93	cps
Indium	115-1	18275379	18045994	17866986	18062786	1.13	cps
Indium	115-2	1804539	1803812	1804540	1804297	0.02	cps
Iron	54-2	860	767	720	782	9.11	cps
Iron	56-2	9397	9086	10100	9528	5.45	cps
Iron	57-2	177	273	270	240	22.86	cps
Krypton	83-1	277	267	227	257	10.31	cps
Lead	206-1	1687	1563	1610	1620	3.84	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	1433	1317	1297	1349	5.47	cps
Lead	208-1	6384	6061	6064	6170	3.01	cps
Lithium	6-1	5491065	5663790	5701487	5618781	2.00	cps
Magnesium	24-2	340	460	410	403	14.94	cps
Manganese	55-2	2040	1997	2147	2061	3.75	cps
Molybdenum	94-1	1093	1073	1123	1097	2.29	cps
Molybdenum	95-1	237	223	303	254	16.84	cps
Molybdenum	96-1	453	513	467	478	6.59	cps
Molybdenum	97-1	163	157	130	150	11.76	cps
Molybdenum	98-1	443	357	363	388	12.44	cps
Neodymium	150-1	13	23	33	23	42.86	cps
Neodymium	150-2	3	7	7	6	34.70	cps
Nickel	60-2	247	270	270	262	5.14	cps
Phosphorus	31-2	73	57	87	72	20.81	cps
Potassium	39-2	12005	12315	12052	12124	1.38	cps
Rhodium	103-1	16931755	16725466	16759790	16805670	0.66	cps
Rhodium	103-2	6513161	6513529	6571498	6532729	0.51	cps
Scandium	45-1	11421883	11385589	11611099	11472857	1.06	cps
Scandium	45-2	192799	192011	193356	192722	0.35	cps
Selenium	82-1	0	-27	60	11	399.55	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	17	13	23	18	28.64	cps
Silicon	28-1	433963	460519	437843	444108	3.23	cps
Silver	107-1	693	583	617	631	8.94	cps
Silver	109-1	503	483	387	458	13.63	cps
Sodium	23-2	27596	27716	26711	27341	2.01	cps
Strontium	86-1	510	457	397	454	12.48	cps
Strontium	88-1	513	453	577	514	11.99	cps
Sulfur	34-1	542846	543411	543860	543372	0.09	cps
Terbium	159-1	21531615	21423582	21467208	21474135	0.25	cps
Terbium	159-2	7210537	7256687	7167251	7211491	0.62	cps
Thallium	203-1	833	780	783	799	3.74	cps
Thallium	205-1	1863	1823	1837	1841	1.11	cps
Tin	118-1	4204	4317	4131	4217	2.23	cps
Titanium	47-1	300	270	267	279	6.58	cps
Uranium	238-1	117	140	120	126	10.05	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BL	Instrumnet Name :	P8
Client Sample ID :	PB167865BL	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:07:43	DataFile Name :	051CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	13	10	20	14	35.26	cps
Ytterbium	172-1	143	103	143	130	17.76	cps
Ytterbium	172-2	60	43	63	56	19.29	cps
Ytterbium	176-1	2554	2534	2560	2549	0.54	cps
Ytterbium	176-2	537	670	573	593	11.61	cps
Yttrium	89-1	32063671	32758655	32227074	32349800	1.12	cps
Yttrium	89-2	2254151	2268483	2242964	2255199	0.57	cps
Zinc	66-2	387	383	367	379	2.83	cps
Zirconium	90-1	2740	2680	2547	2656	3.73	cps
Zirconium	91-1	537	600	477	538	11.47	cps

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Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	755483	757089	748667	753746	0.59	cps
Antimony	121-1	12828971	13055809	13272322	13052367	1.70	cps
Arsenic	75-2	235751	237523	234189	235821	0.71	cps
Barium	135-1	14994262	15367231	15790538	15384010	2.59	cps
Barium	137-1	26311299	26382243	27078540	26590694	1.59	cps
Beryllium	9-1	2579755	2731318	2555145	2622073	3.64	cps
Bismuth	209-1	11739783	11882889	11902804	11841825	0.75	cps
Bismuth	209-2	5079171	5138443	5105230	5107615	0.58	cps
Bromine	81-1	28599	29361	27584	28515	3.13	cps
Cadmium	108-1	245606	248812	247311	247243	0.65	cps
Cadmium	106-1	357054	363749	359700	360167	0.94	cps
Cadmium	111-1	3231425	3280727	3305041	3272398	1.15	cps
Calcium	43-1	3952175	3970948	3964216	3962446	0.24	cps
Calcium	44-1	63438199	64673932	65108101	64406744	1.35	cps
Carbon	12-1	3984419	3944031	4016969	3981806	0.92	cps
Carbon	12-2	26607	26203	26674	26495	0.96	cps
Chlorine	35-1	400118	402534	401357	401336	0.30	cps
Chlorine	35-2	1453	1280	1293	1342	7.19	cps
Chromium	52-2	2406064	2503348	2439647	2449687	2.02	cps
Cobalt	59-2	4541757	4681106	4529748	4584204	1.84	cps
Copper	63-2	35990299	35578014	35339115	35635809	0.92	cps
Dysprosium	156-1	507	603	560	557	8.70	cps
Dysprosium	156-2	43	117	50	70	57.94	cps
Erbium	164-1	367	367	333	356	5.41	cps
Erbium	164-2	133	140	103	126	15.56	cps
Gadolinium	160-1	273	333	250	286	15.06	cps
Gadolinium	160-2	97	117	117	110	10.50	cps
Holmium	165-1	20775128	20189984	20446356	20470489	1.43	cps
Holmium	165-2	7295509	7311986	7327890	7311795	0.22	cps
Indium	115-1	17278032	16966327	17142091	17128817	0.91	cps
Indium	115-2	1718228	1718146	1683222	1706532	1.18	cps
Iron	54-2	4930677	5006175	5013956	4983603	0.92	cps
Iron	56-2	88785902	90938402	89338325	89687543	1.25	cps
Iron	57-2	2325349	2320698	2306891	2317646	0.41	cps
Krypton	83-1	313	297	243	284	12.85	cps
Lead	206-1	44585019	44738763	45009303	44777695	0.48	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	37420950	38327123	38886707	38211593	1.94	cps
Lead	208-1	173660018	177999354	178526475	176728616	1.51	cps
Lithium	6-1	5492984	5488811	5290554	5424117	2.13	cps
Magnesium	24-2	13890378	13487336	13955234	13777649	1.84	cps
Manganese	55-2	9843638	10130859	9857035	9943844	1.63	cps
Molybdenum	94-1	44687994	45818541	45559084	45355207	1.31	cps
Molybdenum	95-1	63914772	65562247	65907887	65128302	1.64	cps
Molybdenum	96-1	69920372	70983714	70563364	70489150	0.76	cps
Molybdenum	97-1	39967259	38984099	39857012	39602790	1.36	cps
Molybdenum	98-1	103742185	103690322	104648845	104027117	0.52	cps
Neodymium	150-1	1203	1220	1427	1283	9.69	cps
Neodymium	150-2	70	63	73	69	7.39	cps
Nickel	60-2	1184850	1196562	1193191	1191535	0.51	cps
Phosphorus	31-2	36142	35874	36589	36202	1.00	cps
Potassium	39-2	4390193	4299201	4317515	4335636	1.11	cps
Rhodium	103-1	15722729	15363591	15495984	15527435	1.17	cps
Rhodium	103-2	6178000	6079809	6111629	6123146	0.82	cps
Scandium	45-1	11222814	11022034	11211713	11152187	1.01	cps
Scandium	45-2	190250	190535	187672	189486	0.83	cps
Selenium	82-1	184687	187410	188188	186762	0.98	cps
Selenium	77-2	2874	2970	2794	2879	3.07	cps
Selenium	78-2	10040	9994	9767	9934	1.47	cps
Silicon	28-1	57102189	58479072	58760656	58113972	1.53	cps
Silver	107-1	16082650	16467328	16498931	16349636	1.42	cps
Silver	109-1	15289243	15629185	15759924	15559451	1.56	cps
Sodium	23-2	27754929	27062792	27923705	27580475	1.65	cps
Strontium	86-1	4202797	4218707	4159384	4193629	0.73	cps
Strontium	88-1	36456567	36297064	35929566	36227733	0.75	cps
Sulfur	34-1	1503056	1522449	1523338	1516281	0.76	cps
Terbium	159-1	21324307	21319955	20852409	21165557	1.28	cps
Terbium	159-2	7023945	7262855	6957429	7081410	2.27	cps
Thallium	203-1	10881356	10957350	11035788	10958165	0.70	cps
Thallium	205-1	25747931	26327424	26001435	26025597	1.12	cps
Tin	118-1	10385792	10320270	10455627	10387230	0.65	cps
Titanium	47-1	17648981	17891899	17913243	17818041	0.82	cps
Uranium	238-1	32039638	33836078	33834216	33236644	3.12	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	PB167865BS	Instrumnet Name :	P8
Client Sample ID :	PB167865BS	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:11:04	DataFile Name :	052LCS6.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1854758	1839698	1846385	1846947	0.41	cps
Ytterbium	172-1	370	347	333	350	5.30	cps
Ytterbium	172-2	143	147	173	154	10.65	cps
Ytterbium	176-1	53126	52537	53575	53079	0.98	cps
Ytterbium	176-2	18490	18390	19044	18641	1.89	cps
Yttrium	89-1	32301691	31869432	31354197	31841773	1.49	cps
Yttrium	89-2	2200734	2199434	2210454	2203541	0.27	cps
Zinc	66-2	3957079	3988213	3926463	3957252	0.78	cps
Zirconium	90-1	22195564	22816055	22743320	22584980	1.50	cps
Zirconium	91-1	4968290	5030398	5069709	5022799	1.02	cps

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LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	3673057	3665888	3632611	3657185	0.59	cps
Antimony	121-1	12136375	12342865	12465782	12315007	1.35	cps
Arsenic	75-2	225960	224243	225737	225313	0.41	cps
Barium	135-1	14648846	14798518	14636119	14694494	0.61	cps
Barium	137-1	25350321	25743338	25002581	25365414	1.46	cps
Beryllium	9-1	2461401	2529606	2485803	2492270	1.39	cps
Bismuth	209-1	10705052	10703782	10688869	10699234	0.08	cps
Bismuth	209-2	4507285	4540676	4476101	4508021	0.72	cps
Bromine	81-1	27898	27337	26495	27243	2.59	cps
Cadmium	108-1	225512	228693	228171	227459	0.75	cps
Cadmium	106-1	335604	336765	335333	335900	0.23	cps
Cadmium	111-1	2987819	2988992	2926173	2967662	1.21	cps
Calcium	43-1	18617789	18601670	18589811	18603090	0.08	cps
Calcium	44-1	305676442	305827782	304363729	305289318	0.26	cps
Carbon	12-1	3856621	3965761	3979273	3933885	1.71	cps
Carbon	12-2	29079	29409	29122	29203	0.62	cps
Chlorine	35-1	304960	303047	302389	303465	0.44	cps
Chlorine	35-2	1090	960	1137	1062	8.62	cps
Chromium	52-2	2333660	2334981	2373242	2347295	0.96	cps
Cobalt	59-2	4238249	4246822	4196358	4227143	0.64	cps
Copper	63-2	32561856	31576871	32000576	32046435	1.54	cps
Dysprosium	156-1	893	867	900	887	1.99	cps
Dysprosium	156-2	140	167	160	156	8.92	cps
Erbium	164-1	713	707	650	690	5.04	cps
Erbium	164-2	207	260	287	251	16.22	cps
Gadolinium	160-1	563	580	497	547	8.07	cps
Gadolinium	160-2	193	173	177	181	5.92	cps
Holmium	165-1	19451962	19229493	18975435	19218963	1.24	cps
Holmium	165-2	6911300	6857880	6884535	6884572	0.39	cps
Indium	115-1	15800136	15964152	15282854	15682381	2.27	cps
Indium	115-2	1438111	1441549	1442694	1440785	0.17	cps
Iron	54-2	22842455	22620653	22814990	22759366	0.53	cps
Iron	56-2	418806100	419824207	419260207	419296838	0.12	cps
Iron	57-2	10561036	10722605	10669322	10650988	0.77	cps
Krypton	83-1	313	317	283	304	6.03	cps
Lead	206-1	42376458	43063448	42735959	42725288	0.80	cps

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	35904496	36448328	35831264	36061363	0.93	cps
Lead	208-1	166509443	168328621	166367142	167068402	0.65	cps
Lithium	6-1	4926709	4981130	4989090	4965643	0.68	cps
Magnesium	24-2	64031726	64885464	62991479	63969556	1.48	cps
Manganese	55-2	9452729	9432744	9557491	9480988	0.71	cps
Molybdenum	94-1	43659496	43710233	43318823	43562850	0.49	cps
Molybdenum	95-1	62623779	62617742	62028969	62423497	0.55	cps
Molybdenum	96-1	66970291	67929654	68237272	67712406	0.98	cps
Molybdenum	97-1	38419619	38747709	38553079	38573469	0.43	cps
Molybdenum	98-1	101904625	100349589	99446695	100566970	1.24	cps
Neodymium	150-1	1283	1327	1317	1309	1.73	cps
Neodymium	150-2	110	107	103	107	3.13	cps
Nickel	60-2	1086847	1080801	1086893	1084847	0.32	cps
Phosphorus	31-2	35056	35350	34581	34996	1.11	cps
Potassium	39-2	20496779	20312850	20747565	20519065	1.06	cps
Rhodium	103-1	14129799	14094451	13913309	14045853	0.83	cps
Rhodium	103-2	5451336	5444983	5344166	5413495	1.11	cps
Scandium	45-1	10401630	10360634	10301295	10354520	0.49	cps
Scandium	45-2	178589	176674	178268	177844	0.58	cps
Selenium	82-1	173972	174266	174286	174174	0.10	cps
Selenium	77-2	2760	2664	2870	2765	3.74	cps
Selenium	78-2	9420	9447	9443	9437	0.15	cps
Silicon	28-1	57133966	56510194	56522919	56722360	0.63	cps
Silver	107-1	14364320	14616355	14759819	14580165	1.37	cps
Silver	109-1	13907081	13703105	13890001	13833395	0.82	cps
Sodium	23-2	129642795	129573945	127081188	128765976	1.13	cps
Strontium	86-1	4075665	4035108	4020394	4043722	0.71	cps
Strontium	88-1	34731795	35189185	35927964	35282982	1.71	cps
Sulfur	34-1	1434320	1431599	1444579	1436833	0.48	cps
Terbium	159-1	19908433	20035125	20048996	19997518	0.39	cps
Terbium	159-2	6661328	6718373	6788958	6722886	0.95	cps
Thallium	203-1	10294939	10518095	10356528	10389854	1.11	cps
Thallium	205-1	24388748	24909586	25093698	24797344	1.47	cps
Tin	118-1	9683752	9959524	9965931	9869735	1.63	cps
Titanium	47-1	16948372	17257223	17074040	17093212	0.91	cps
Uranium	238-1	32251886	32951750	32783230	32662288	1.12	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCV04	Instrumnet Name :	P8
Client Sample ID :	CCV04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:15:46	DataFile Name :	053CCV.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	1783673	1785956	1797944	1789191	0.43	cps
Ytterbium	172-1	977	1023	1007	1002	2.36	cps
Ytterbium	172-2	437	443	477	452	4.74	cps
Ytterbium	176-1	53206	52973	52818	52999	0.37	cps
Ytterbium	176-2	18703	18880	19151	18911	1.19	cps
Yttrium	89-1	29934509	30139682	29847141	29973777	0.50	cps
Yttrium	89-2	2021751	2046404	2030968	2033041	0.61	cps
Zinc	66-2	3604000	3579386	3582439	3588608	0.37	cps
Zirconium	90-1	21737863	21886356	21539308	21721176	0.80	cps
Zirconium	91-1	4821436	4844589	4867339	4844455	0.47	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Aluminium	27-2	280	373	263	306	19.40	cps
Antimony	121-1	3737	3160	2830	3243	14.16	cps
Arsenic	75-2	27	17	7	17	59.99	cps
Barium	135-1	480	463	357	433	15.44	cps
Barium	137-1	790	707	687	728	7.53	cps
Beryllium	9-1	447	442	385	425	8.17	cps
Bismuth	209-1	12649721	12628535	12645871	12641376	0.09	cps
Bismuth	209-2	5433266	5414324	5426959	5424850	0.18	cps
Bromine	81-1	28065	28783	28566	28471	1.29	cps
Cadmium	108-1	60	50	57	56	9.17	cps
Cadmium	106-1	10491	10497	10467	10485	0.15	cps
Cadmium	111-1	7548	7530	7427	7502	0.87	cps
Calcium	43-1	1010	880	893	928	7.71	cps
Calcium	44-1	27163	25828	25130	26040	3.97	cps
Carbon	12-1	3334171	3294435	3209099	3279235	1.95	cps
Carbon	12-2	20287	20154	20020	20154	0.66	cps
Chlorine	35-1	232258	233104	227738	231033	1.25	cps
Chlorine	35-2	780	773	857	803	5.76	cps
Chromium	52-2	1103	947	923	991	9.88	cps
Cobalt	59-2	210	183	187	193	7.51	cps
Copper	63-2	1540	1717	1407	1555	10.00	cps
Dysprosium	156-1	157	150	147	151	3.37	cps
Dysprosium	156-2	13	10	3	9	57.30	cps
Erbium	164-1	150	150	117	139	13.85	cps
Erbium	164-2	53	33	53	47	24.75	cps
Gadolinium	160-1	123	157	113	131	17.31	cps
Gadolinium	160-2	23	10	20	18	39.03	cps
Holmium	165-1	20660413	20576113	20433537	20556688	0.56	cps
Holmium	165-2	7288915	7353252	7390010	7344059	0.70	cps
Indium	115-1	17967161	17910095	17679660	17852305	0.85	cps
Indium	115-2	1787540	1781388	1804992	1791307	0.68	cps
Iron	54-2	937	930	877	914	3.60	cps
Iron	56-2	12295	11805	12412	12171	2.65	cps
Iron	57-2	300	367	250	306	19.16	cps
Krypton	83-1	233	263	280	259	9.13	cps
Lead	206-1	4081	3627	3431	3713	8.98	cps

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LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Lead	207-1	3410	3177	2960	3183	7.07	cps
Lead	208-1	15654	14353	13510	14506	7.45	cps
Lithium	6-1	5615567	5603663	5621253	5613494	0.16	cps
Magnesium	24-2	1083	1153	1070	1102	4.06	cps
Manganese	55-2	1800	1890	1900	1863	2.96	cps
Molybdenum	94-1	2684	2764	2314	2587	9.28	cps
Molybdenum	95-1	2290	2000	1910	2067	9.61	cps
Molybdenum	96-1	2970	2374	2504	2616	11.99	cps
Molybdenum	97-1	1467	1277	1120	1288	13.48	cps
Molybdenum	98-1	3554	3184	2587	3108	15.70	cps
Neodymium	150-1	43	43	23	37	31.49	cps
Neodymium	150-2	0	10	0	3	173.21	cps
Nickel	60-2	240	240	193	224	12.00	cps
Phosphorus	31-2	63	93	70	76	20.85	cps
Potassium	39-2	13443	13847	13793	13694	1.60	cps
Rhodium	103-1	16549103	16342849	16963490	16618480	1.90	cps
Rhodium	103-2	6415251	6391517	6475898	6427555	0.68	cps
Scandium	45-1	10979691	11376144	11102172	11152669	1.82	cps
Scandium	45-2	189209	188044	188021	188425	0.36	cps
Selenium	82-1	17	17	43	26	60.23	cps
Selenium	77-2	0	0	0	0	0.00	cps
Selenium	78-2	10	10	7	9	21.63	cps
Silicon	28-1	500155	480648	479511	486771	2.38	cps
Silver	107-1	1497	1307	1277	1360	8.77	cps
Silver	109-1	1390	1147	1127	1221	12.01	cps
Sodium	23-2	40165	39925	40559	40216	0.80	cps
Strontium	86-1	533	513	527	524	1.94	cps
Strontium	88-1	993	867	837	899	9.25	cps
Sulfur	34-1	528877	530287	529763	529642	0.13	cps
Terbium	159-1	21515133	21409185	21650637	21524985	0.56	cps
Terbium	159-2	7302400	7209131	7306195	7272575	0.76	cps
Thallium	203-1	1167	1047	1097	1103	5.46	cps
Thallium	205-1	2710	2534	2457	2567	5.06	cps
Tin	118-1	3594	3484	3697	3592	2.97	cps
Titanium	47-1	603	567	500	557	9.41	cps
Uranium	238-1	810	660	497	656	23.91	cps

Reviewed By:MOHAN
On:5/14/2025 1:16:54 PM
Inst Id :P8
LB :LB135757

LB Number :	LB135757	Operator :	Jaswal
Lab Sample ID :	CCB04	Instrumnet Name :	P8
Client Sample ID :	CCB04	Dilution Factor :	1
Date & Time Acquired :	2025-05-13 18:18:35	DataFile Name :	054CCBE.d

Parameter	Mass	CPS1	CPS2	CPS3	CPSMean	CPSRSD	Units
Vanadium	51-2	40	63	37	47	31.13	cps
Ytterbium	172-1	90	113	123	109	15.71	cps
Ytterbium	172-2	63	67	53	61	11.36	cps
Ytterbium	176-1	2707	2560	2650	2639	2.80	cps
Ytterbium	176-2	573	647	527	582	10.39	cps
Yttrium	89-1	32356067	32110482	31884249	32116933	0.73	cps
Yttrium	89-2	2184086	2194823	2222972	2200627	0.91	cps
Zinc	66-2	360	503	497	453	17.85	cps
Zirconium	90-1	4321	3994	3787	4034	6.67	cps
Zirconium	91-1	873	867	860	867	0.77	cps

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167552

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 04/10/2025 **Time :** 13:05 **Temp :** 96 °C

End Digest Date: 04/10/2025 **Time :** 15:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	1.00	MP85065
Spike Sol 2	2.00	MP85066
Spike Sol 3	2.00	MP85067
Spike Sol 4	2.00	MP85068
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #3 CELL#35 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/10/25 16:10	[signature] met.dig	[signature] Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167552

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167552BL	PBS552	N/A	2.18	100	Black	Yellow	Medium	N/A	N/A	1
PB167552BS	LCS552	N/A	2.21	100	Black	Yellow	Medium	N/A	MP85065,MP85066,MP85067,N	2
Q1769-02	S-875-KI-SO-1.0-1.5-04092 5	N/A	2.12	100	Black	Yellow	Medium	N/A	N/A	3
Q1769-03	S-874-KI-SO-1.0-1.5-04092 5	N/A	2.29	100	Black	Yellow	Medium	N/A	N/A	4
Q1769-04	S-874-KI-SO-1.0-1.5-04092 5 FD	N/A	2.15	100	Black	Yellow	Medium	N/A	N/A	5
Q1769-09	S-873-KI-SO-1.0-1.5-04092 5	N/A	2.08	100	Black	Yellow	Medium	N/A	N/A	6
Q1769-09DUP	S-873-KI-SO-1.0-1.5-04092 5DUP	N/A	2.33	100	Black	Yellow	Medium	N/A	N/A	7
Q1769-10	Q1769-09MS	N/A	2.20	100	Black	Yellow	Medium	N/A	MP85065,MP85066,MP85067,N	8
Q1769-11	Q1769-09MSD	N/A	2.46	100	Black	Yellow	Medium	N/A	MP85065,MP85066,MP85067,N	9

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PB167552 **WorkList ID :** 188851 **Department :** Digestion **Date :** 04-10-2025 12:32:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1769-02	S-875-KI-SO-1.0-1.5-040925	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B
Q1769-03	S-874-KI-SO-1.0-1.5-040925	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B
Q1769-04	S-874-KI-SO-1.0-1.5-040925-FI	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B
Q1769-09	S-873-KI-SO-1.0-1.5-040925	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B
Q1769-10	Q1769-09MS	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B
Q1769-11	Q1769-09MSD	Solid	Metals Group4	Cool 4 deg C	JACO05	L31	04/09/2025	6020B

Date/Time 04/20/25 12:50
Raw Sample Received by: SKS.method
Raw Sample Relinquished by: CP

Date/Time 04/20/25 13:50
Raw Sample Received by: CP
Raw Sample Relinquished by: SKS.method

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Q1769-METALS

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167865

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 05/05/2025 **Time :** 11:20 **Temp :** 96 °C

End Digest Date: 05/05/2025 **Time :** 13:25 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKS.

Supervisor Signature: SO

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP85371
Spike Sol 2	1.00	MP85372
Spike Sol 3	1.00	MP85373
Spike Sol 4	1.00	MP85374
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/25 ~~13:15~~ ~~14:25~~ 13:45	SKS. met. lab	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167865

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167865BL	PBW865	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	12
PB167865BS	LCS865	<2	50	50	Colorless	Colorless	Clear	Clear	MP85371,MP85372,MP85373,M	13
Q1769-08	EB01-040925	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	14

WORKLIST(Hardcopy Internal Chain)

WorkList Name : pb167865 **WorkList ID :** 189318 **Department :** Digestion **Date :** 05-05-2025 11:08:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1769-08	EB01-040925	Water	Metals Group4	1:1 HNO3 to pH < 2	JACO05	L31	04/09/2025	6020B

Date/Time 05/05/25 11:15
Raw Sample Received by: SLB.MCT.DIO
Raw Sample Relinquished by: CH

Date/Time 05/05/25 12:15
Raw Sample Received by: CH
Raw Sample Relinquished by: SLB.MCT.DIO

Revised
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Q1769-METALS

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/11/2025

OVENTEMP IN Celsius(°C): 106
Time IN: 17:00
In Date: 04/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 04/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135370

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1764-01	BUR-25-0020	34	1.15	10.24	11.39	10.9	95.2	
Q1767-04	NWB-2106	37	1.14	10.00	11.14	10.75	96.1	
Q1768-01	CRUSHED STONE	35	1.00	1.00	2.00	2.00	100.0	CRUSHED STONE
Q1768-02	CRUSHED STONE	36	1.00	1.00	2.00	2.00	100.0	CRUSHED STONE
Q1769-01	S-878-KI-SO-1.0-1.5-040925	1	1.14	10.33	11.47	9.01	76.2	
Q1769-02	S-875-KI-SO-1.0-1.5-040925	2	1.15	10.84	11.99	9.66	78.5	
Q1769-03	S-874-KI-SO-1.0-1.5-040925	3	1.18	10.34	11.52	7.57	61.8	
Q1769-04	S-874-KI-SO-1.0-1.5-040925-FD	4	1.19	10.48	11.67	7.76	62.7	
Q1769-05	S-877-KI-SO-1.0-1.5-040925	5	1.12	10.65	11.77	8.87	72.8	
Q1769-07	S-876-KI-SO-1.0-1.5-040925	6	1.19	10.17	11.36	8.1	67.9	
Q1769-09	S-873-KI-SO-1.0-1.5-040925	7	1.15	10.44	11.59	8.2	67.5	
Q1769-10	Q1769-09MS	8	1.15	10.44	11.59	8.2	67.5	
Q1769-11	Q1769-09MSD	9	1.15	10.44	11.59	8.2	67.5	
Q1771-01	TP-6C	10	1.14	10.41	11.55	10.45	89.4	
Q1771-02	TP-6C-EPH	11	1.19	10.38	11.57	10.15	86.3	
Q1771-03	TP-6C-VOC	12	1.18	10.40	11.58	10.55	90.1	
Q1771-05	TP-7C	13	1.19	10.41	11.6	10.76	91.9	
Q1771-06	TP-7C-EPH	14	1.19	10.22	11.41	10.58	91.9	
Q1771-07	TP-7C-VOC	15	1.13	10.47	11.6	10.73	91.7	
Q1771-09	TP-3A	16	1.19	10.43	11.62	9.53	80.0	
Q1771-10	TP-3A-EPH	17	1.15	10.83	11.98	9.82	80.1	
Q1771-11	TP-3A-VOC	18	1.12	10.55	11.67	9.56	80.0	
Q1779-01	TP-22	19	1.15	10.08	11.23	10.13	89.1	
Q1779-02	TP-22-EPH	20	1.15	10.66	11.81	10.64	89.0	
Q1779-03	TP-22-VOC	21	1.18	12.19	13.37	12.11	89.7	
Q1779-05	TP-23	22	1.14	10.48	11.62	9.61	80.8	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/11/2025

OVENTEMP IN Celsius(°C): 106
Time IN: 17:00
In Date: 04/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 04/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135370

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1779-06	TP-23-EPH	23	1.17	10.67	11.84	9.77	80.6	
Q1779-07	TP-23-VOC	24	1.13	10.84	11.97	10.03	82.1	
Q1781-01	WC-13	25	1.13	10.79	11.92	10.00	82.2	
Q1781-02	WC-13-EPH	26	1.18	10.47	11.65	9.96	83.9	
Q1781-03	WC-13-VOC	27	1.15	10.45	11.6	10.69	91.3	
Q1781-05	WC-12	28	1.19	11.11	12.3	10.8	86.5	
Q1781-06	WC-12-EPH	29	1.17	10.70	11.87	11.02	92.1	
Q1781-07	WC-12-VOC	30	1.19	10.47	11.66	10.73	91.1	
Q1781-09	WC-11	31	1.19	10.27	11.46	10.16	87.3	
Q1781-10	WC-11-EPH	32	1.12	11.20	12.32	9.9	78.4	
Q1781-11	WC-11-VOC	33	1.11	10.44	11.55	10.48	89.8	

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

Q1769-METALS

WORKLIST(Hardcopy Internal Chain)

VB 135370

WorkList Name : %1-041025 **WorkList ID :** 188832 **Department :** Wet-Chemistry **Date :** 04-10-2025 08:06:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1764-01	BUR-25-0020	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/10/2025	Chemtech -SO
Q1767-04	NWB-2106	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1768-01	CRUSHED STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/10/2025	Chemtech -SO
Q1768-02	CRUSHED STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/10/2025	Chemtech -SO
Q1769-01	S-878-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-02	S-875-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-03	S-874-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-04	S-874-KI-SO-1.0-1.5-040925-FI	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-05	S-877-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-07	S-876-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-09	S-873-KI-SO-1.0-1.5-040925	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-10	Q1769-09MS	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1769-11	Q1769-09MSD	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1771-01	TP-6C	Solid	Percent Solids	Cool 4 deg C	JACO05	L31	04/09/2025	Chemtech -SO
Q1771-02	TP-6C-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-03	TP-6C-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-05	TP-7C	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-06	TP-7C-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-07	TP-7C-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-09	TP-3A	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1771-10	TP-3A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO

Date/Time 04.10.25 15:20

Raw Sample Received by: JR WC

Raw Sample Relinquished by: CP SM

Date/Time 04.10.25 17:15

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JR WC

WORKLIST(Hardcopy Internal Chain)

VB 135370

WorkList Name : %1-041025 **WorkList ID :** 188832 **Department :** Wet-Chemistry **Date :** 04-10-2025 08:06:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1771-11	TP-3A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/09/2025	Chemtech -SO
Q1779-01	TP-22	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1779-02	TP-22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1779-03	TP-22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1779-05	TP-23	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1779-06	TP-23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1779-07	TP-23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-01	WC-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-02	WC-13-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-03	WC-13-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-05	WC-12	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-06	WC-12-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-07	WC-12-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-09	WC-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-10	WC-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO
Q1781-11	WC-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	F11	04/10/2025	Chemtech -SO

Date/Time 04.10.25 1520

Raw Sample Received by: JR HYCI

Raw Sample Relinquished by: CP SM

Date/Time 04.10.25 17:15

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JR HYCI

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135403

Review By	jaswal	Review On	4/15/2025 12:52:48 PM
Supervise By	mohan	Supervise On	4/15/2025 1:08:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	04/11/25 11:13		Jaswal	OK
2	S0	S0	CAL1	04/11/25 12:09		Jaswal	OK
3	S2	S2	CAL3	04/11/25 12:16		Jaswal	OK
4	S3	S3	CAL4	04/11/25 12:19		Jaswal	OK
5	S4	S4	CAL5	04/11/25 12:23		Jaswal	OK
6	S5	S5	CAL6	04/11/25 12:26		Jaswal	OK
7	S6	S6	CAL7	04/11/25 12:29		Jaswal	OK
8	S7	S7	CAL8	04/11/25 12:31		Jaswal	OK
9	S8	S8	CAL9	04/11/25 12:34		Jaswal	OK
10	ICV01	ICV01	ICV	04/11/25 12:48		Jaswal	OK
11	LLICV	LLICV	LLICV	04/11/25 12:59		Jaswal	OK
12	ICB01	ICB01	ICB	04/11/25 13:06		Jaswal	OK
13	ICSA01	ICSA01	ICSA	04/11/25 13:10		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	04/11/25 13:28		Jaswal	OK
15	CCV01	CCV01	CCV	04/11/25 13:31		Jaswal	OK
16	CCB01	CCB01	CCB	04/11/25 13:34		Jaswal	OK
17	CRI	CRI	CRDL	04/11/25 13:44		Jaswal	OK
18	PB167552BL	PB167552BL	MB	04/11/25 14:15		Jaswal	OK

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Instrument ID: P7

Daily Analysis Runlog For Sequence/QCBatch ID # LB135403

Review By	jaswal	Review On	4/15/2025 12:52:48 PM
Supervise By	mohan	Supervise On	4/15/2025 1:08:59 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP85193,MP84998
CCV Standard	MP84992
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

19	PB167552BS	PB167552BS	LCS	04/11/25 14:18		Jaswal	OK
20	Q1769-02DL	S-875-K1-SO-1.0-1.5-	SAM	04/11/25 14:21		Jaswal	OK
21	Q1769-03DL	S-874-K1-SO-1.0-1.5-	SAM	04/11/25 14:24		Jaswal	OK
22	Q1769-04DL	S-874-K1-SO-1.0-1.5-	SAM	04/11/25 14:27		Jaswal	OK
23	Q1769-09DL	S-873-K1-SO-1.0-1.5-	SAM	04/11/25 14:31		Jaswal	OK
24	Q1769-09DUPDL	S-873-K1-SO-1.0-1.5-	DUP	04/11/25 14:34		Jaswal	OK
25	CCV02	CCV02	CCV	04/11/25 14:51		Jaswal	OK
26	CCB02	CCB02	CCB	04/11/25 14:54		Jaswal	OK
27	Q1769-09LDL	S-873-K1-SO-1.0-1.5-	SD	04/11/25 14:57		Jaswal	OK
28	Q1769-10DL	S-873-K1-SO-1.0-1.5-	MS	04/11/25 15:17		Jaswal	OK
29	Q1769-11DL	S-873-K1-SO-1.0-1.5-	MSD	04/11/25 15:20		Jaswal	OK
30	Q1769-09ADL	S-873-K1-SO-1.0-1.5-	PS	04/11/25 15:23		Jaswal	OK
31	CCV03	CCV03	CCV	04/11/25 15:36		Jaswal	OK
32	CCB03	CCB03	CCB	04/11/25 15:41		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135757

Review By	jaswal	Review On	5/14/2025 1:13:57 PM
Supervise By	MOHAN	Supervise On	5/14/2025 1:16:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP85577,MP85606,MP85605,MP85602,MP85595,MP85594,MP85592,MP85580,MP85579
ICV Standard	MP85607
CCV Standard	MP85608
ICSA Standard	MP85641,MP85642
CRI Standard	MP85605
LCS Standard	
Chk Standard	MP85644,MP85645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	05/13/25 14:23		Jaswal	OK
2	S0	S0	CAL1	05/13/25 14:58		Jaswal	OK
3	S2	S2	CAL3	05/13/25 15:05		Jaswal	OK
4	S3	S3	CAL4	05/13/25 15:08		Jaswal	OK
5	S4	S4	CAL5	05/13/25 15:16		Jaswal	OK
6	S5	S5	CAL6	05/13/25 15:19		Jaswal	OK
7	S6	S6	CAL7	05/13/25 15:22		Jaswal	OK
8	S7	S7	CAL8	05/13/25 15:25		Jaswal	OK
9	S8	S8	CAL9	05/13/25 15:27		Jaswal	OK
10	ICV01	ICV01	ICV	05/13/25 15:58		Jaswal	OK
11	LLICV	LLICV	LLICV	05/13/25 16:08		Jaswal	OK
12	ICB01	ICB01	ICB	05/13/25 16:15		Jaswal	OK
13	ICSA01	ICSA01	ICSA	05/13/25 16:19		Jaswal	OK
14	ICSAB1	ICSAB1	ICSAB	05/13/25 16:29		Jaswal	OK
15	CCV01	CCV01	CCV	05/13/25 16:32		Jaswal	OK
16	CCB01	CCB01	CCB	05/13/25 16:40		Jaswal	OK
17	CRI	CRI	CRDL	05/13/25 16:52		Jaswal	OK
18	Q1769-08	EB01-040925	SAM	05/13/25 16:55		Jaswal	OK

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135757

Review By	jaswal	Review On	5/14/2025 1:13:57 PM
Supervise By	MOHAN	Supervise On	5/14/2025 1:16:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP85577,MP85606,MP85605,MP85602,MP85595,MP85594,MP85592,MP85580,MP85579
ICV Standard	MP85607
CCV Standard	MP85608
ICSA Standard	MP85641,MP85642
CRI Standard	MP85605
LCS Standard	
Chk Standard	MP85644,MP85645

19	Q1955-01	LAW-25-0066	SAM	05/13/25 16:58	Not use	Jaswal	Not Ok
20	Q1955-01DUP	LAW-25-0066DUP	DUP	05/13/25 17:01	Not use	Jaswal	Not Ok
21	Q1955-01L	LAW-25-0066L	SD	05/13/25 17:04	Not use	Jaswal	Not Ok
22	Q1955-01MS	LAW-25-0066MS	MS	05/13/25 17:07	Not use	Jaswal	Not Ok
23	Q1955-01MSD	LAW-25-0066MSD	MSD	05/13/25 17:10	Not use	Jaswal	Not Ok
24	Q1955-01A	LAW-25-0066A	PS	05/13/25 17:13	Not use	Jaswal	Not Ok
25	Q1955-01DL	LAW-25-0066DL	SAM	05/13/25 17:17	Not use	Jaswal	Not Ok
26	CCV02	CCV02	CCV	05/13/25 17:20		Jaswal	OK
27	CCB02	CCB02	CCB	05/13/25 17:23		Jaswal	OK
28	Q1955-01DUPDL	LAW-25-0066DUPDL	DUP	05/13/25 17:27	Not use	Jaswal	Not Ok
29	Q1955-01LDL	LAW-25-0066LDL	SD	05/13/25 17:30	Not use	Jaswal	Not Ok
30	Q1955-01MSDL	LAW-25-0066MSDL	MS	05/13/25 17:33	Not use	Jaswal	Not Ok
31	Q1955-01MSDDL	LAW-25-0066MSDDL	MSD	05/13/25 17:36	Not use	Jaswal	Not Ok
32	Q1955-01ADL	LAW-25-0066ADL	PS	05/13/25 17:39	Not use	Jaswal	Not Ok
33	Q1955-01DL2	LAW-25-0066DL2	SAM	05/13/25 17:42	Not use	Jaswal	Not Ok
34	Q1955-01DUPDL2	LAW-25-0066DUPDL2	DUP	05/13/25 17:45	Not use	Jaswal	Not Ok
35	Q1955-01LDL2	LAW-25-0066LDL2	SD	05/13/25 17:48	Not use	Jaswal	Not Ok
36	CCV03	CCV03	CCV	05/13/25 17:51		Jaswal	OK
37	CCB03	CCB03	CCB	05/13/25 17:54		Jaswal	OK
38	Q1955-01MSDL2	LAW-25-0066MSDL2	MS	05/13/25 17:58	Not use	Jaswal	Not Ok

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Instrument ID: P8

Daily Analysis Runlog For Sequence/QCBatch ID # LB135757

Review By	jaswal	Review On	5/14/2025 1:13:57 PM
Supervise By	MOHAN	Supervise On	5/14/2025 1:16:54 PM

STD. NAME	STD REF.#
ICAL Standard	MP85577,MP85606,MP85605,MP85602,MP85595,MP85594,MP85592,MP85580,MP85579
ICV Standard	MP85607
CCV Standard	MP85608
ICSA Standard	MP85641,MP85642
CRI Standard	MP85605
LCS Standard	
Chk Standard	MP85644,MP85645

39	Q1955-01MSDDL2	LAW-25-0066MSDDL	MSD	05/13/25 18:01	Not use	Jaswal	Not Ok
40	Q1955-01ADL2	LAW-25-0066ADL2	PS	05/13/25 18:04	Not use	Jaswal	Not Ok
41	PB167865BL	PB167865BL	MB	05/13/25 18:07		Jaswal	OK
42	PB167865BS	PB167865BS	LCS	05/13/25 18:11		Jaswal	OK
43	CCV04	CCV04	CCV	05/13/25 18:15		Jaswal	OK
44	CCB04	CCB04	CCB	05/13/25 18:18		Jaswal	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q1769

Test : Metals Group4

Prepbatch ID : PB167552,PB167865,

Sequence ID/Qc Batch ID: LB135403,LB135757,

Standard ID :
MP84041,MP84980,MP84981,MP84982,MP84983,MP84984,MP84985,MP84986,MP84987,MP84988,MP84989,MP849
92,MP84993,MP84996,MP84997,MP84998,MP84999,MP85065,MP85066,MP85067,MP85068,MP85156,MP85193,MP
85351,MP85371,MP85372,MP85373,MP85374,MP85577,MP85579,MP85580,MP85592,MP85594,MP85595,MP85602,
MP85604,MP85605,MP85606,MP85607,MP85608,MP85641,MP85642,MP85643,MP85644,MP85645,

Chemical ID :
M4888,M5305,M5470,M5471,M5472,M5519,M5520,M5545,M5581,M5658,M5697,M5739,M5751,M5798,M5799,M5800
,M5801,M5811,M5815,M5817,M5873,M5874,M5942,M5961,M5962,M5977,M5981,M5983,M6019,M6020,M6021,M6023
,M6025,M6026,M6028,M6030,M6032,M6055,M6058,M6079,M6086,M6087,M6125,M6126,M6127,M6128,M6137,M614
2,M6144,M6145,M6146,M6150,M6151,M6153,M6158,M6159,M6160,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
3947	S7(SFAM,6020,200.8)	MP84980	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.00000ml of M6137 + 1.00000ml of M6153 + 1.90000ml of M6159 + 10.00000ml of M5942 + 10.00000ml of M5977 + 10.00000ml of M6158 + 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 M6151 + 50.00000ml of M5305 + 829.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M6086 + 9.90000ml of M6127 + 9.90000ml of M6144 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP84981	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6158 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP84982	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 1.00000ml of M6159 + 2.50000ml of M5520 + 2.50000ml of M5811 + 5.00000ml of M6086 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84981 = 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
3948	S6(SFAM,6020,200.8)	MP84983	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 48.50000ml of W3112 + 50.00000ml of MP84980 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3949	S5(SFAM,6020,200.8)	MP84984	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 73.50000ml of W3112 + 25.00000ml of MP84980 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3954	S4(SFAM,6020,200.8)	MP84985	03/25/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 86.00000ml of W3112 + 12.50000ml of MP84980 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3951	S3(SFAM, 6020,200.8)	MP84986	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84983 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3955	S2CONC(SFAM,6020,200.8)	MP84987	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.00500ml of M6153 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 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 M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.10000ml of M6159 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5942 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 0.50000ml of M6137 + 1.25000ml of M5815 + 1.25000ml of M5817 + 1.25000ml of M6151 + 2.50000ml of M5520 + 2.50000ml of M6086 + 2.50000ml of M6127 + 2.50000ml of M6144 + 2.50000ml of M6158 + 230.04500ml of W3112 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3956	S2(SFAM,6020,200.8)	MP84988	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 98.00000ml of W3112 + 0.50000ml of MP84987 = Final Quantity: 100.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3957	S1(SFAM,6020,200.8)	MP84989	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84988 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP84992	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.20000ml of M6026 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 0.50000ml of M6137 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M6153 + 10.00000ml of M6158 + 12.45000ml of M5520 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M6086 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5305 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M6159 + 5.00000ml of M6151 + 5.50000ml of M5942 + 5.50000ml of M5977 + 823.35000ml of W3112 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP84993	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP84996	03/25/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.00500ml of M5983 + 0.00500ml of M6019 + 0.00500ml of M6020 + 0.00500ml of M6058 + 10.00000ml of M5873 + 10.00000ml of M5874 + 79.98000ml of MP84981 = 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	MP84997	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP84998	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP84997 + 96.00000ml of MP84981 = 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	MP84999	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 5.00000ml of M6158 + 75.00000ml of M5739 + 170.00000ml of MP84981 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3880	M&B SPIKE-1	MP85065	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 5.00000ml of M5472 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 5.00000ml of M6079 + 5.00000ml of M6146 + 35.00000ml of MP84981 = 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
3881	M&B SPIKE-2	MP85066	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 10.00000ml of M4888 + 10.00000ml of M5977 + 12.50000ml of M5520 + 12.50000ml of M5811 + 12.50000ml of M6032 + 2.50000ml of M5799 + 2.50000ml of M6137 + 5.00000ml of M6159 + 32.50000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3882	M&B SPIKE-3	MP85067	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 0.62500ml of M6026 + 12.50000ml of M5751 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP84981 = 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
3900	M&B SPIKE-4	MP85068	03/24/2025	04/14/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/07/2025

FROM 6.25000ml of M6086 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP84981 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
170	1:1HCL	MP85156	04/07/2025	08/18/2025	Kareem Khairalla	None	None	Sarabjit Jaswal 04/07/2025

FROM 1250.00000ml of M6151 + 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
3959	ICV(6020,200.8)	MP85193	04/07/2025	04/14/2025	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Janvi Patel 04/16/2025

FROM 0.05000ml of M5983 + 0.05000ml of M6019 + 0.05000ml of M6020 + 0.05000ml of M6058 + 0.45000ml of M5545 + 0.45000ml of M5977 + 2.00000ml of M6150 + 96.90000ml of MP84981 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1122	ICPMS CALIB BLANK(S0/ICB/CCB)	MP85351	04/14/2025	05/05/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/29/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6158 = Final Quantity: 5000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3880	M&B SPIKE-1	MP85371	04/14/2025	05/05/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/29/2025

FROM 5.00000ml of M5471 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 5.00000ml of M6079 + 5.00000ml of M6160 + 35.00000ml of MP85351 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3881	M&B SPIKE-2	MP85372	04/14/2025	05/05/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/29/2025

FROM 10.00000ml of M5942 + 10.00000ml of M5977 + 12.50000ml of M5520 + 12.50000ml of M5811 + 12.50000ml of M6032 + 2.50000ml of M5799 + 2.50000ml of M6137 + 5.00000ml of M6159 + 32.50000ml of MP85351 = 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
3882	M&B SPIKE-3	MP85373	04/14/2025	05/05/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/29/2025

FROM 0.62500ml of M6026 + 12.50000ml of M5697 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP85351 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3900	M&B SPIKE-4	MP85374	04/14/2025	05/05/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 04/29/2025

FROM 6.25000ml of M6087 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP85351 = Final Quantity: 25.000 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)	MP85577	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6158 = Final Quantity: 5000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2902	S8 ICPMS	MP85579	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 1.00000ml of M6159 + 2.50000ml of M5520 + 2.50000ml of M5811 + 2.50000ml of M6142 + 5.00000ml of M6086 + 5.00000ml of M6127 + 5.00000ml of M6144 + 76.50000ml of MP85577 = 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)	MP85580	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/07/2025

FROM 0.10000ml of M6153 + 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.00000ml of M6137 + 1.90000ml of M6159 + 10.00000ml of M5942 + 10.00000ml of M5977 + 10.00000ml of M6158 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5520 + 4.90000ml of M5811 + 5.00000ml of M6151 + 50.00000ml of M5305 + 830.50000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M6086 + 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)	MP85592	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 48.50000ml of W3112 + 50.00000ml of MP85580 = 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)	MP85594	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 73.50000ml of W3112 + 25.00000ml of MP85580 = 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)	MP85595	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 86.00000ml of W3112 + 12.50000ml of MP85580 = 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)	MP85602	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP85592 = 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)	MP85604	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.00500ml of M6153 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 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 M5658 + 0.10000ml of M5697 + 0.10000ml of M6146 + 0.10000ml of M6159 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5942 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 0.50000ml of M6137 + 1.25000ml of M5815 + 1.25000ml of M5817 + 1.25000ml of M6151 + 2.50000ml of M5520 + 2.50000ml of M6086 + 2.50000ml of M6127 + 2.50000ml of M6144 + 2.50000ml of M6158 + 230.04500ml 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
3956	S2(SFAM,6020,200.8)	MP85605	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 98.00000ml of W3112 + 0.50000ml of MP85604 = 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)	MP85606	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP85605 = 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
3958	ICV(SFAM)	MP85607	05/05/2025	05/26/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 2.00000ml of M6150 + 98.00000ml of MP85577 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3961	CCV	MP85608	05/05/2025	06/02/2025	Janvi Patel	METALS_SCALE_3 (M SC-3)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 05/09/2025

FROM 0.20000ml of M6026 + 0.50000ml of M5470 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 0.50000ml of M6137 + 1.00000ml of M5815 + 1.00000ml of M5817 + 10.00000ml of M6158 + 12.45000ml of M5520 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M6086 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5305 + 4.50000ml of M5697 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M6159 + 5.00000ml of M6151 + 5.50000ml of M5942 + 5.50000ml of M5977 + 824.10000ml of W3112 = Final Quantity: 1000.000 ml

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1142	ICSA ICPMS	MP85641	05/05/2025	05/26/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/13/2025

FROM 10.00000ml of M5873 + 90.00000ml of MP85577 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1143	ICSAB ICPMS	MP85642	05/05/2025	05/26/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/13/2025

FROM 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP85577 = 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	MP85643	05/05/2025	05/26/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/13/2025

FROM 0.01000ml of M6127 + 9.99000ml of MP85577 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3894	TUNE 200PPB	MP85644	05/05/2025	05/26/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/13/2025

FROM 2.00000ml of M6055 + 2.00000ml of MP85643 + 96.00000ml of MP85577 = 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	MP85645	05/05/2025	05/26/2025	Janvi Patel	None	METALS_PIPETTE_3 (A)	Sarabjit Jaswal 05/13/2025

FROM 5.00000ml of M6158 + 75.00000ml of M5739 + 170.00000ml of MP85577 = 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.	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 #
Inorganic Ventures	6020CAL-1 / Calibration Standard Method 6020	S2-MEB711244	10/20/2026	03/07/2025 / JANVI	04/01/2022 / jaswal	M5305

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	04/14/2025 / jaswal	03/16/2023 / jaswal	M5470

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	04/14/2025 / jaswal	03/16/2023 / jaswal	M5471

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.	57119 / Potassium (K) 10,000PPM	120822	12/08/2025	01/08/2024 / bin	03/17/2023 / bin	M5519

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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	08/01/2024 / Jaswal	03/17/2023 / bin	M5520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Titanium (Ti) 1000PPM	050223	05/02/2026	05/08/2023 / jaswal	05/08/2023 / jaswal	M5545

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	26397-103 / PTFE BOILING STONES	W126678	03/20/2026	03/20/2025 / jaswal	06/12/2023 / jaswal	M5581

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y	T2-MEB709511	09/03/2026	08/07/2024 / jaswal	04/11/2022 / jaswal	M5739

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	071723	07/17/2026	10/01/2024 / Jaswal	08/25/2023 / jaswal	M5751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57004 / Be, 1000 PPM, 125 ml	102523	10/25/2026	02/09/2024 / bin	02/09/2024 / bin	M5798

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57050 / Sn, 1000 PPM, 125 ml	071123	07/11/2026	02/09/2024 / bin	02/09/2024 / bin	M5799

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57027 / CO, 1000 PPM, 125 ml	091923	09/19/2026	05/31/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	051523	05/15/2026	02/06/2025 / kareem	01/03/2024 / jaswal	M5811

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57115 / P, 10000 PPM, 125 ml	041723	04/17/2026	05/21/2024 / Jaswal	02/09/2024 / jaswal	M5815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	PART A / ICSA (ICPMS) STOCK SOLN	CP-MS ICSA-0803	05/31/2025	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	05/31/2025	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 #
Inorganic Ventures	CGTI1-1 / TITANIUM 125mL 1000ug/mL	T2-TI719972	06/17/2027	06/18/2024 / Jaswal	02/22/2024 / Jaswal	M5942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57028 / Ni, 1000 PPM, 125 ml	041124	04/11/2027	07/02/2024 / Jaswal	06/11/2024 / Jaswal	M5961

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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	060624	06/06/2027	07/02/2024 / Jaswal	06/14/2024 / Jaswal	M5962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL	T2-MO720876	07/17/2027	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 #
Absolute Standards, Inc.	57092 / U, 1000 PPM, 125 ml	060724	06/07/2027	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57040 / Zr, 1000 PPM, 125 ml	071423	07/14/2026	07/29/2024 / Jaswal	06/11/2024 / Jaswal	M5983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGSR1-1 / Strontium, 125 ml, 1000 PPM	U2-SR730227	03/03/2028	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGU1-1 / Uranium 1000 ug/ml	U2-U735194	04/03/2028	01/15/2025 / Jaswal	08/05/2024 / Jaswal	M6020

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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.	57023 / V, 1000 PPM, 125 ml	062424	06/24/2027	09/28/2024 / jaswal	08/05/2024 / Jaswal	M6021

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57081 / Tl, 1000 PPM, 125 ml	0624724	06/27/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57082 / Pb, 1000 PPM, 125 ml	061224	11/09/2026	08/05/2024 / Jaswal	08/05/2024 / Jaswal	M6025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	110923	11/09/2026	12/05/2024 / janvi	08/05/2024 / Jaswal	M6026

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	070124	07/01/2027	08/05/2024 / kareem	08/05/2024 / Jaswal	M6028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57047 / Ag, 1000 PPM, 125 ml	122823	12/28/2026	08/05/2024 / kareem	08/05/2024 / Jaswal	M6030

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	010924	01/09/2027	01/14/2025 / Jaswal	08/05/2024 / Jaswal	M6032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL	U2-MEB734294	06/21/2028	08/21/2024 / Jaswal	08/19/2024 / Jaswal	M6055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti	V2-MEB746173	01/29/2026	01/29/2025 / JANVI	08/22/2024 / Jaswal	M6058

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 #
Absolute Standards, Inc.	58120 / Calcium, 500 ml, 10000 PPM	082324	08/23/2027	03/06/2025 / JANVI	10/14/2024 / jaswal	M6086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Calcium, 500 ml, 10000 PPM	082324	08/23/2027	01/03/2025 / janvi	10/14/2024 / jaswal	M6087

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	112124	11/21/2027	01/13/2025 / kareem	01/13/2025 / kareem	M6127

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 #
Inorganic Ventures	CGSI1-1 / SILICON 125mL 1000ug/mL	V2-SI744713	07/10/2029	01/14/2025 / Jaswal	10/03/2024 / Jaswal	M6137

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	103024	10/30/2027	05/06/2025 / JANVI	01/13/2025 / Jaswal	M6142

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58111 / Na, 10000 PPM, 500 ml	072424	07/24/2027	01/23/2025 / kareem	01/13/2025 / Jaswal	M6144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	121724	12/17/2027	02/04/2025 / jaswal	01/13/2025 / Jaswal	M6145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	071724	07/17/2027	01/31/2025 / kareem	10/18/2024 / kareem	M6146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV1-1014	07/07/2025	02/07/2025 / JANVI	04/20/2021 / JANVI	M6150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	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 #
Inorganic Ventures	CGSR10 / Strontium (SR), 125mL 10,000ppm	V2-SR754329	02/28/2026	02/28/2025 / JANVI	01/07/2025 / JANVI	M6153

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

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	011325	03/18/2026	03/18/2025 / kareem	02/09/2025 / kareem	M6159

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	03/24/2025 / kareem	10/18/2024 / kareem	M6160

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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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		

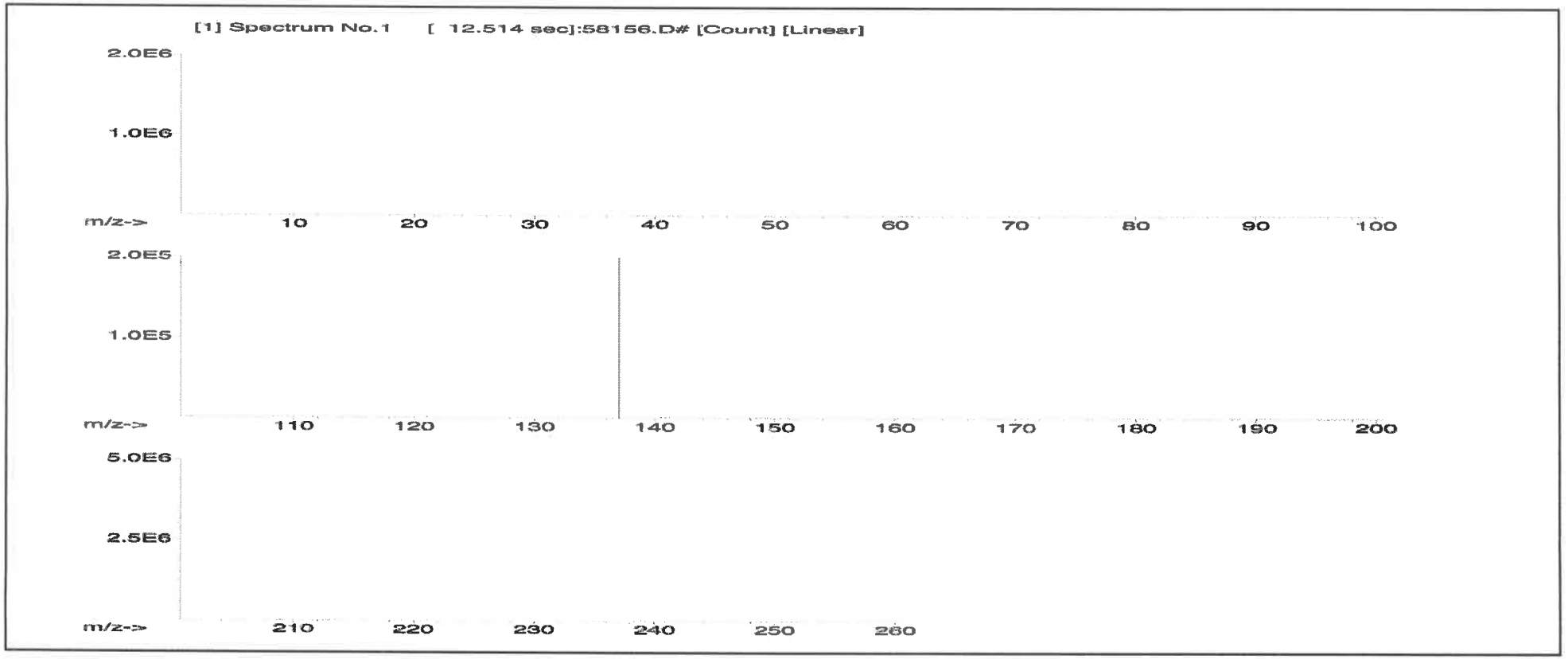
Giovanni Esposito

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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Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 082324
Description: Calcium (Ca)
Expiration Date: 082327
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.1

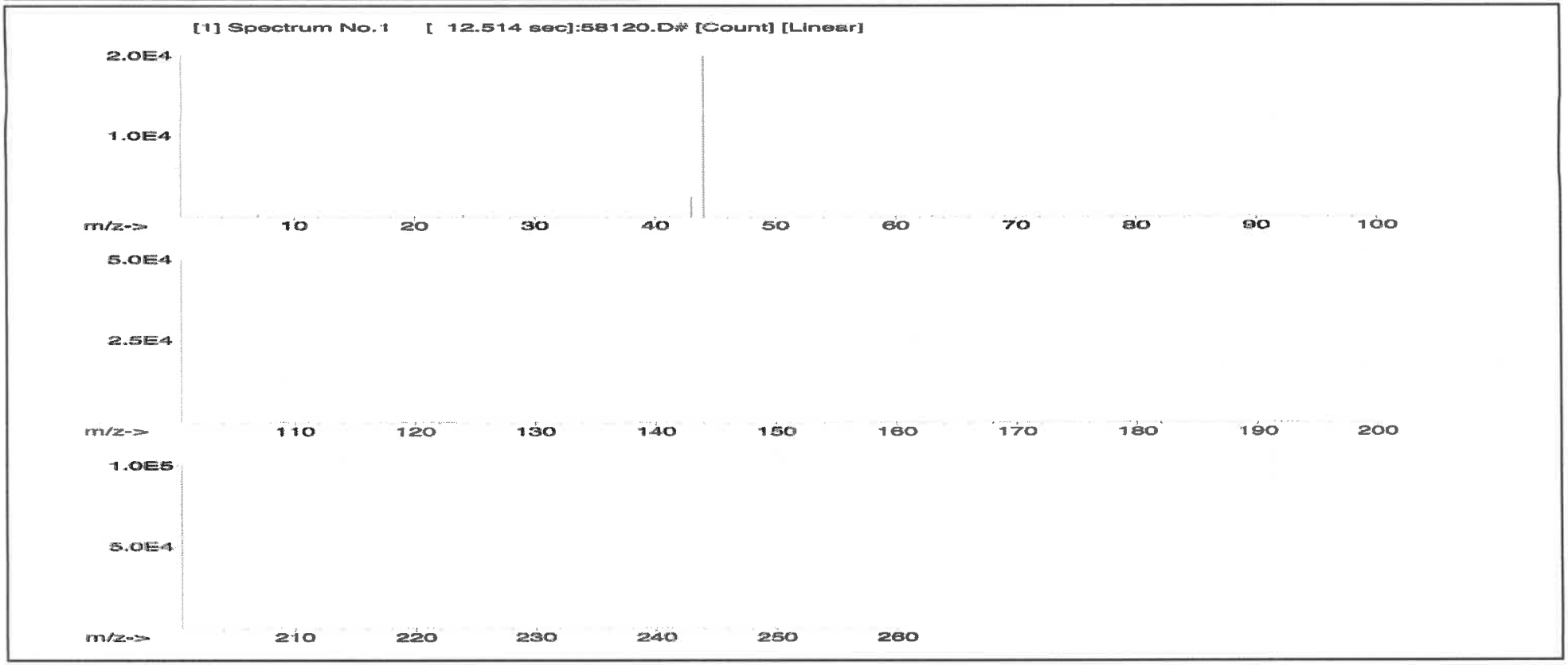
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.15 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 082324

Pedro Rentas
Reviewed By: Pedro L. Rentas 082324

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	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2656	**10001.2**	**20.0**	471-34-1	5 mg/m3	ori-rat >2000mg/kg	3109a



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648 of 789
Q1769-METALS

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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	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	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Revised 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

Part Number:	**58120**		**Lot #**		
Lot Number:	**082324**		**Solvent:**	24002546	Nitric Acid
Description:	**Calcium (Ca)**				
			2%	80.0 (mL)	Nitric Acid
Expiration Date:	082327				
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):	4000.1	0.15	Flask Uncertainty		

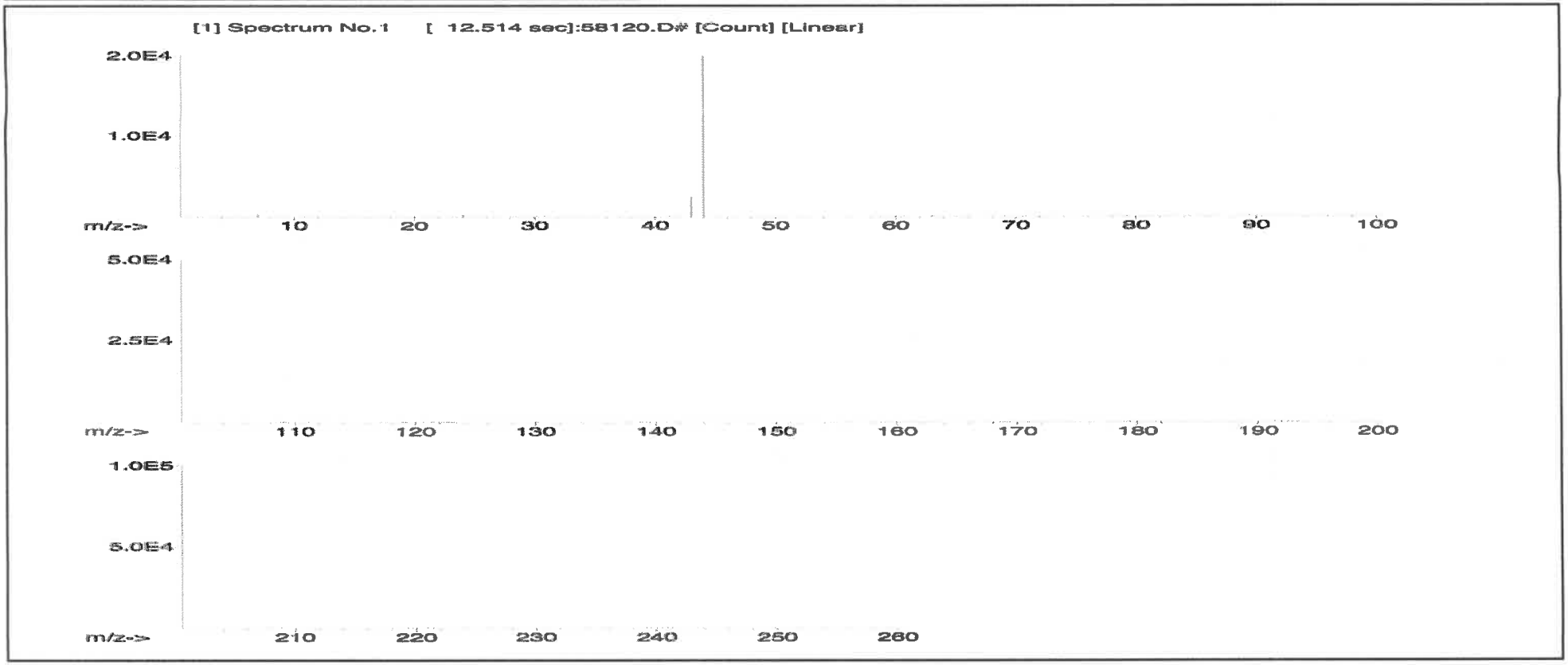
Giovanni Esposito

Formulated By:	Giovanni Esposito	082324

Pedro Rentas

Reviewed By:	Pedro L. Rentas	082324

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	CAD03203B3	10000	99.999	0.10	39.9	100.2537	100.2656	**10001.2**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



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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	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	30	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

Part Number: 57048
Lot Number: 070124
Description: Cadmium (Cd)

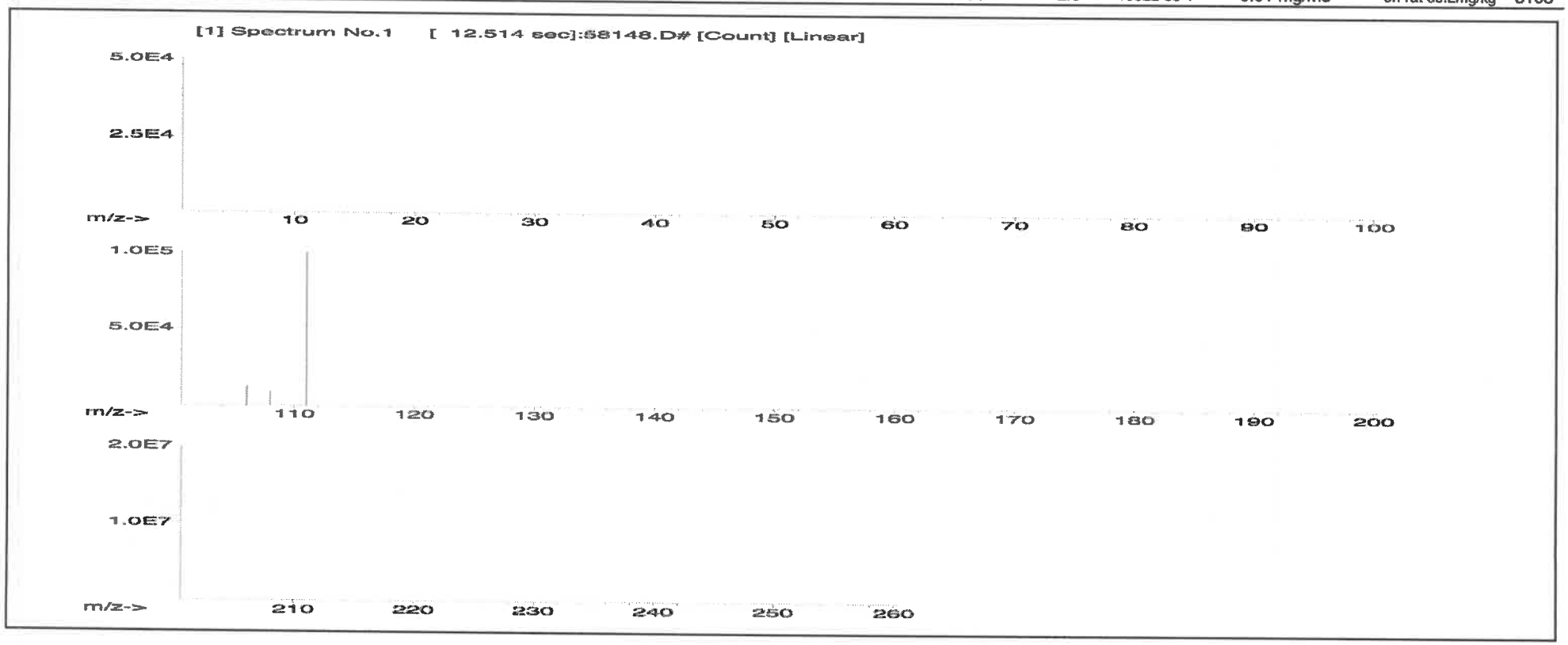
Expiration Date: 070127
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 2000.07 0.100 Flask Uncertainty

		Lot #	
Solvent:	24002546	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

Aleah O'Brady

Formulated By:	Aleah O'Brady	070124
Reviewed By:	Pedro L. Rentas	070124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cadmium nitrate tetrahydrate (Cd)	IN024	CDM092021A1	1000	99.999	0.10	36.5	5.4797	5.4804	**1000.1**	**2.0**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108



Q1769-METALS

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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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R : 01/03/24. M5810, M5811

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Revised

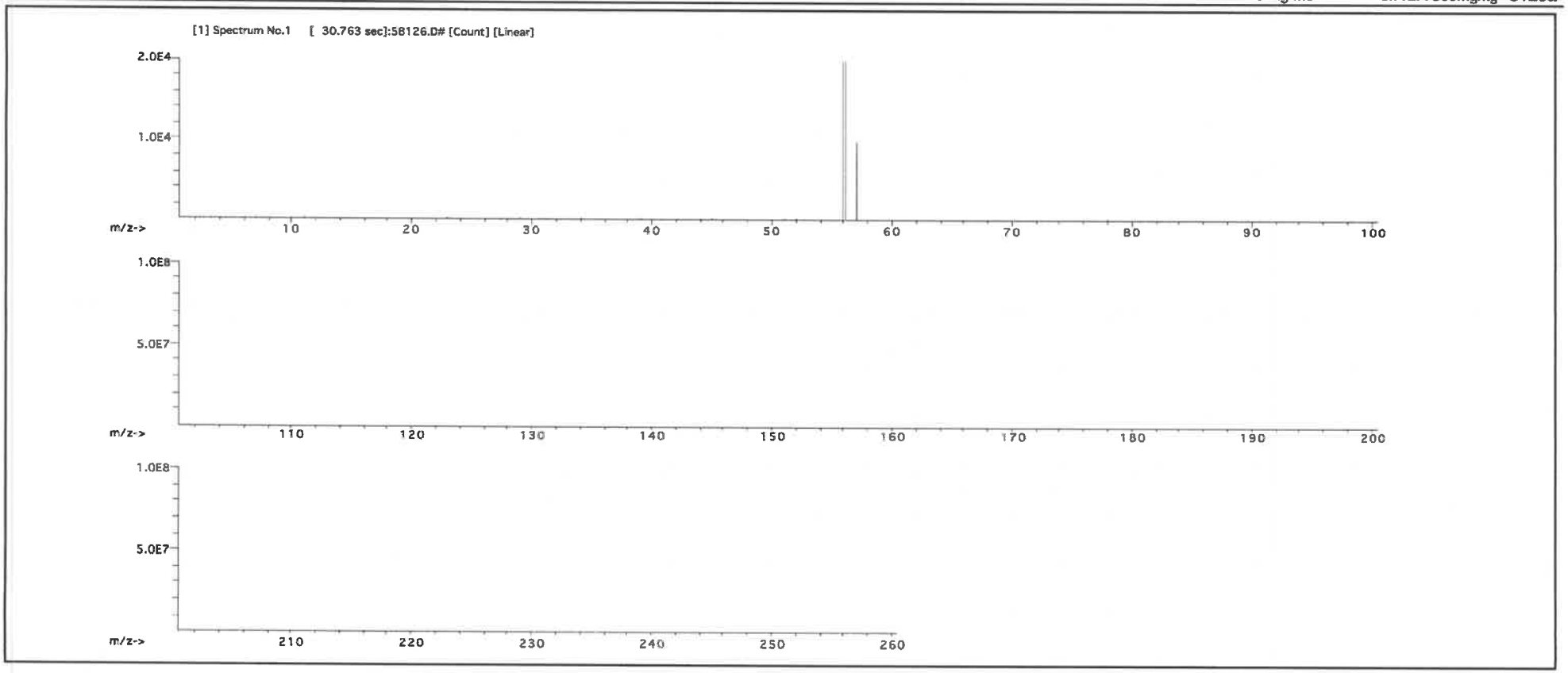
CERTIFIED WEIGHT REPORT:

Part Number:	**58126**			**Lot #**	
Lot Number:	**051523**		**Solvent:**	21110221	Nitric Acid
Description:	**Iron (Fe)**				
			5.0%	250.0 (mL)	Nitric Acid
Expiration Date:	051526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	5000.1	0.12	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	051523
Reviewed By:	Pedro L. Rentas	051523

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron (Fe)	IN346	2302010-500	10000	99.995	0.10	100.0	50.0034	50.0111	**10001.5**	**20.0**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.05	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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R: 8/5/24 M6025

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

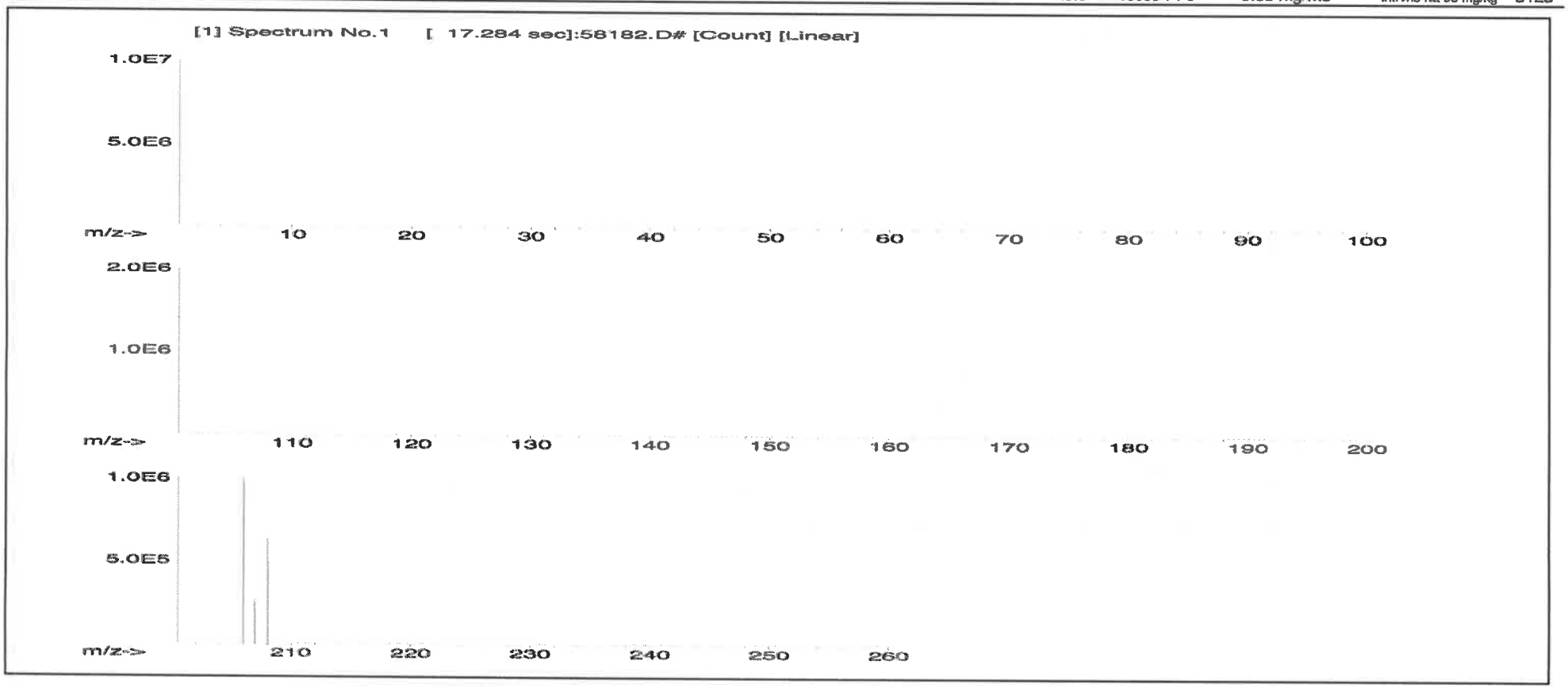
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	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



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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

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M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 110923
Description: Lead (Pb)

Expiration Date: 110926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

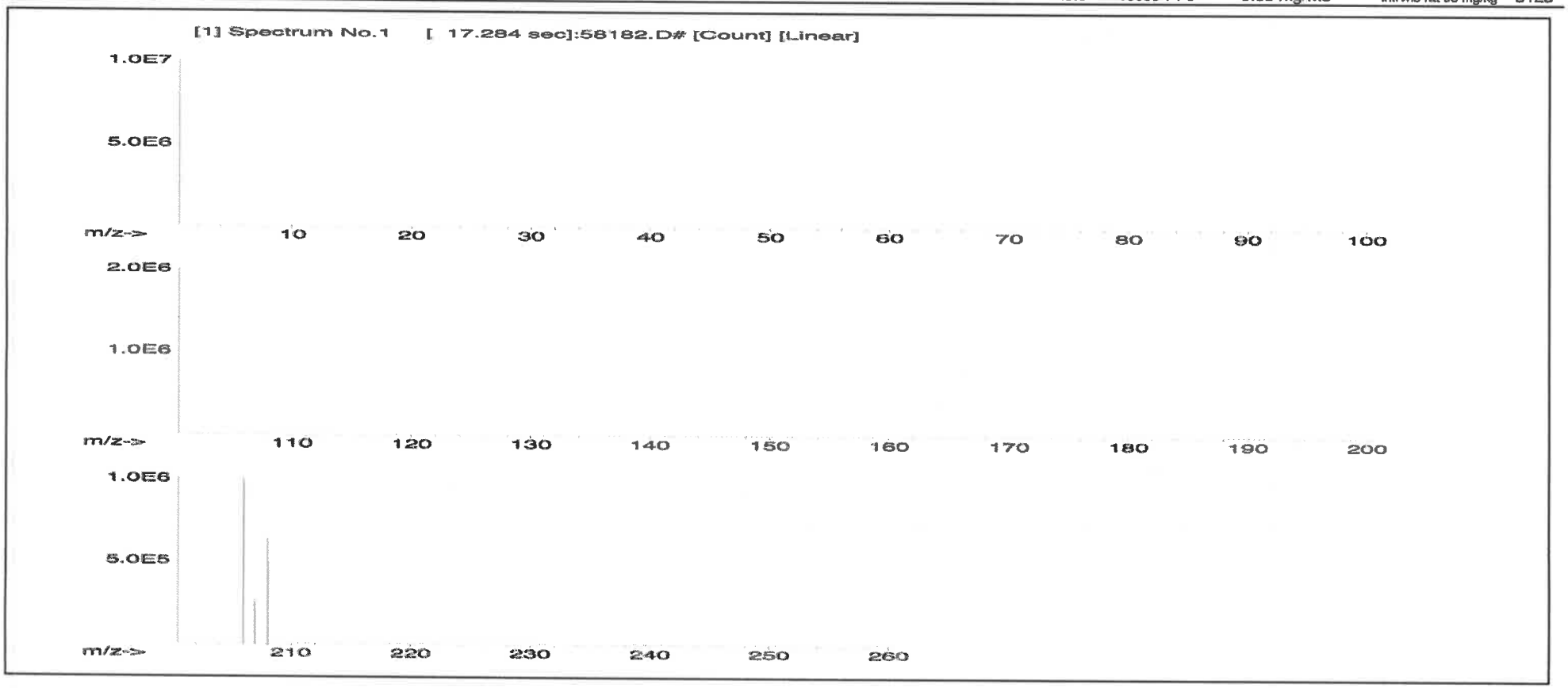
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

	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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

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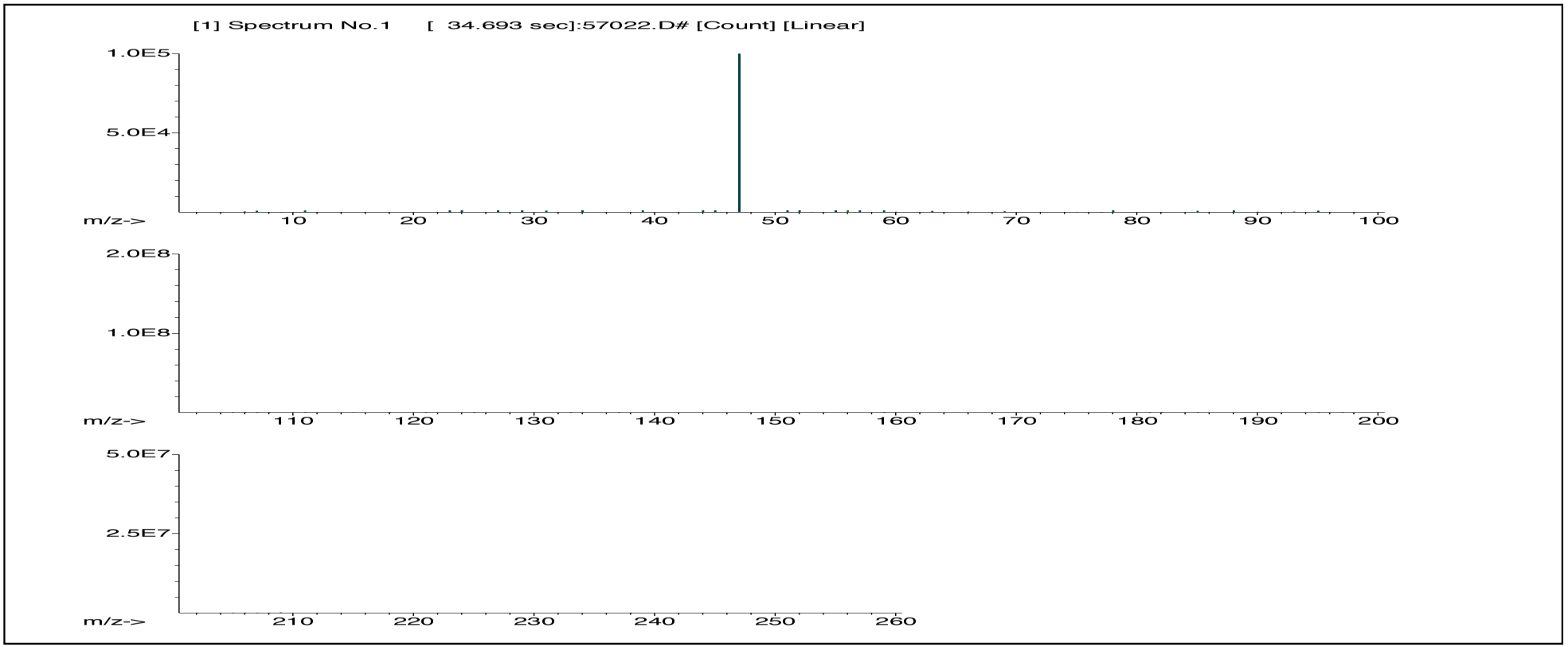
CERTIFIED WEIGHT REPORT:

		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



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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:

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020CAL-1
Lot Number:	S2-MEB711244
Matrix:	5% (v/v) HNO3 tr. HF
Value / Analyte(s):	20 µg/mL ea:

Silver,	Aluminum,
Arsenic,	Barium,
Beryllium,	Calcium,
Cadmium,	Cobalt,
Chromium,	Copper,
Iron,	Potassium,
Magnesium,	Manganese,
Sodium,	Nickel,
Lead,	Antimony,
Selenium,	Thallium,
Vanadium,	Zinc

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**20.01 ± 0.08 µg/mL**	**Antimony, Sb**	**20.01 ± 0.12 µg/mL**
Arsenic, As	**20.01 ± 0.18 µg/mL**	**Barium, Ba**	**20.01 ± 0.11 µg/mL**
Beryllium, Be	**20.01 ± 0.14 µg/mL**	**Cadmium, Cd**	**20.01 ± 0.11 µg/mL**
Calcium, Ca	**20.01 ± 0.10 µg/mL**	**Chromium, Cr**	**20.01 ± 0.16 µg/mL**
Cobalt, Co	**20.01 ± 0.11 µg/mL**	**Copper, Cu**	**20.01 ± 0.10 µg/mL**
Iron, Fe	**20.01 ± 0.09 µg/mL**	**Lead, Pb**	**20.01 ± 0.11 µg/mL**
Magnesium, Mg	**19.99 ± 0.10 µg/mL**	**Manganese, Mn**	**20.01 ± 0.10 µg/mL**
Nickel, Ni	**20.01 ± 0.11 µg/mL**	**Potassium, K**	**20.01 ± 0.10 µg/mL**
Selenium, Se	**20.02 ± 0.14 µg/mL**	**Silver, Ag**	**20.02 ± 0.09 µg/mL**
Sodium, Na	**20.01 ± 0.10 µg/mL**	**Thallium, Tl**	**20.01 ± 0.13 µg/mL**
Vanadium, V	**20.01 ± 0.11 µg/mL**	**Zinc, Zn**	**20.01 ± 0.11 µg/mL**

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
Fe	Calculated		See Sec. 4.2
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Revised
666 of 789

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

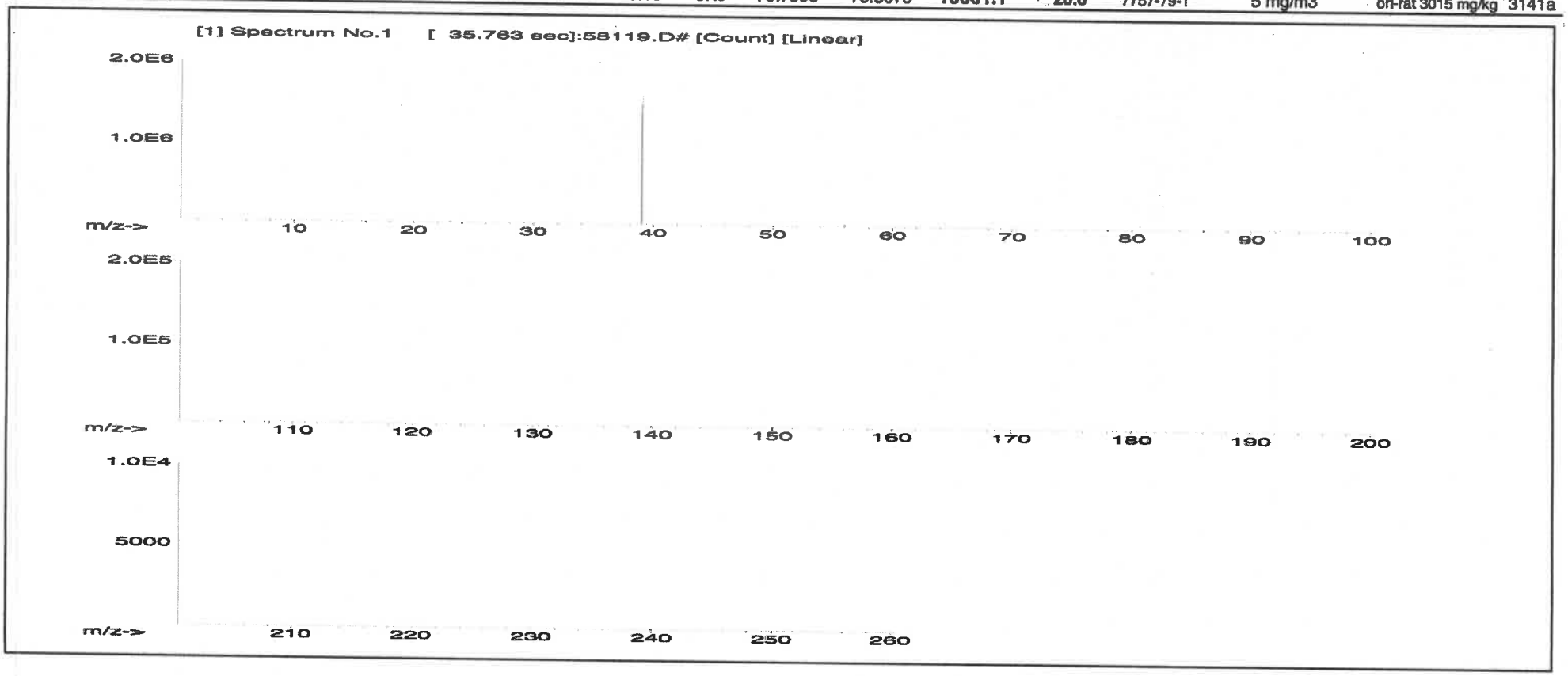
		Lot #	
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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

M5519. M5520 (BH) R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 120822
Description: Potassium (K)

Expiration Date: 120825
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 3000.4 ± 0.06 Flask Uncertainty

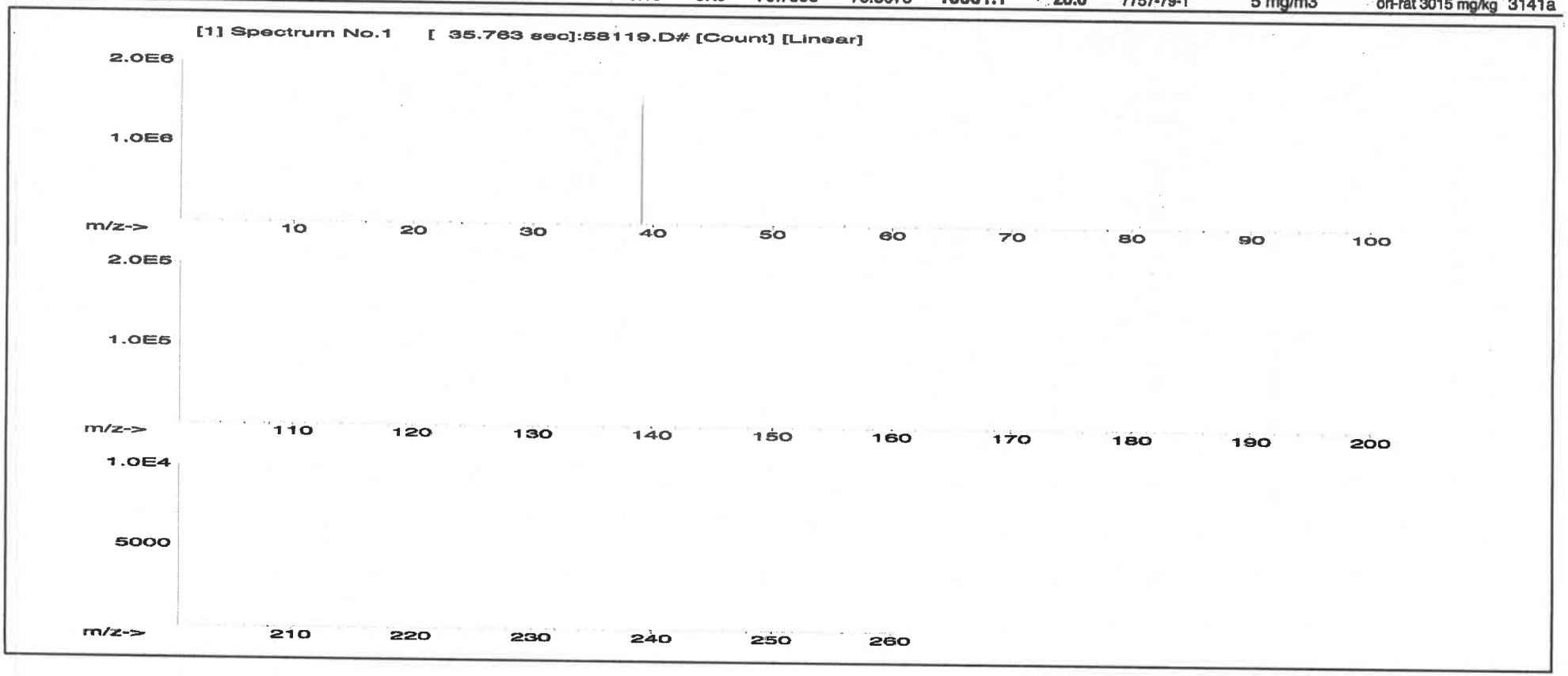
		Lot #	
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	120822
Reviewed By:	Pedro L. Rentas	120822

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	79.7990	79.8075	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

JENSEN INERT PRODUCTS

MATERIAL CERTIFICATE OF COMPLIANCE

DATE: JUNE 12, 2023

CUSTOMER:	PCI SCIENTIFIC SUPPLY, INC
PURCHASE ORDER NO.	6054931
CATALOG NO.	BOI5021-450L
PRODUCT DESCRIPTION:	BOILING STONES, TFE, 454GMS
QUANTITY:	10 EACH
LOT NO.	W126678
SPECIFICATION (S):	Made from Virgin PTFE Resin

We certify that we have complied with the terms and conditions of the above Purchase Order and the Part Specifications in the manufacturing of the above product.

Laura Valencia

Laura Valencia
Quality Assurance Inspector

F:U:J:CF:PCISCI:COC-55114-BOI5021-061223

3773 NW 126th Avenue • Coral Springs, Florida 33065 • Fax (954) 344-2008 • 1-800 446-3781
Email: jensen@jenseninert.com Visit our Web Site at www.jenseninert.com

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Certified Reference Material CRM

M5658 R ! 8/25/23

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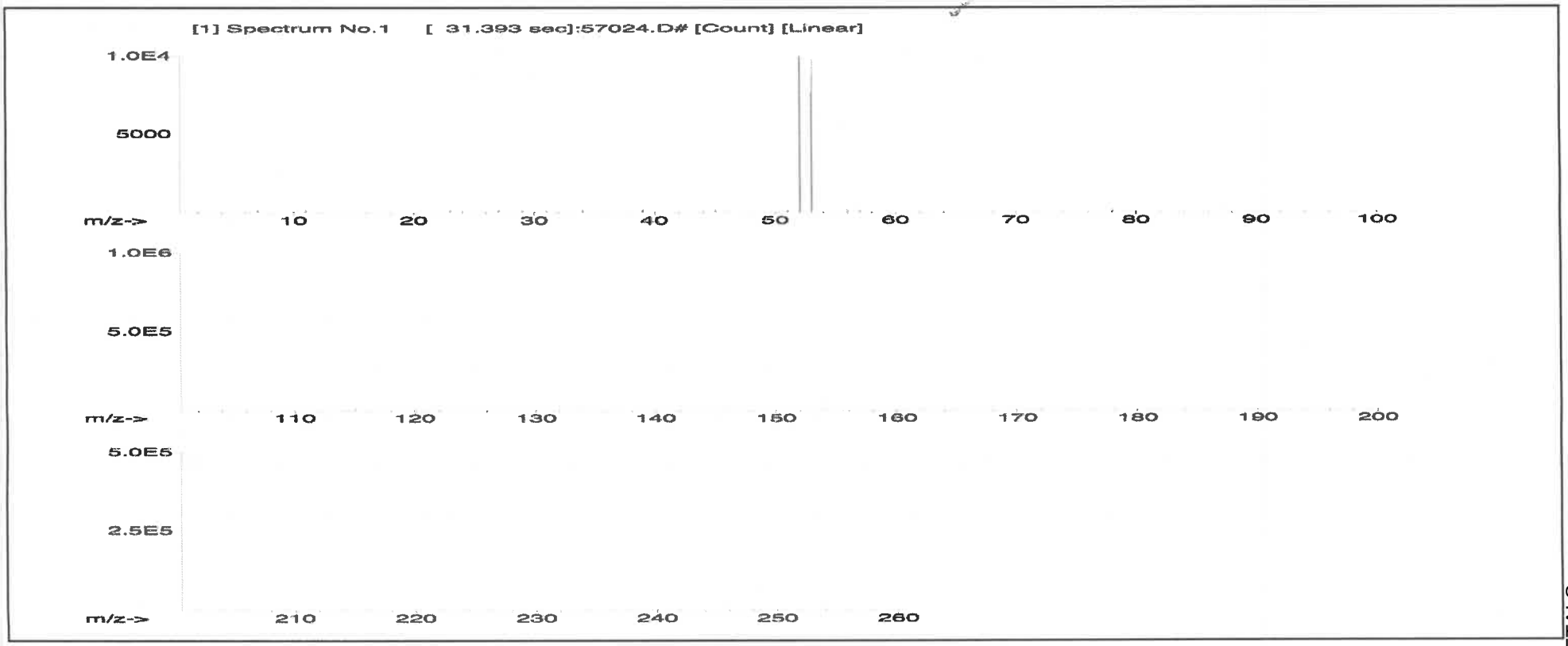
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58024**	21110221	Nitric Acid	
Lot Number:	**060523**			
Description:	**Chromium (Cr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	060523
Reviewed By:	Pedro L. Rentas	060523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Chromium(III) nitrate nonahydrate (Cr)	58124	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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Certified Reference Material CRM

M5697 R: 10/27/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Revised

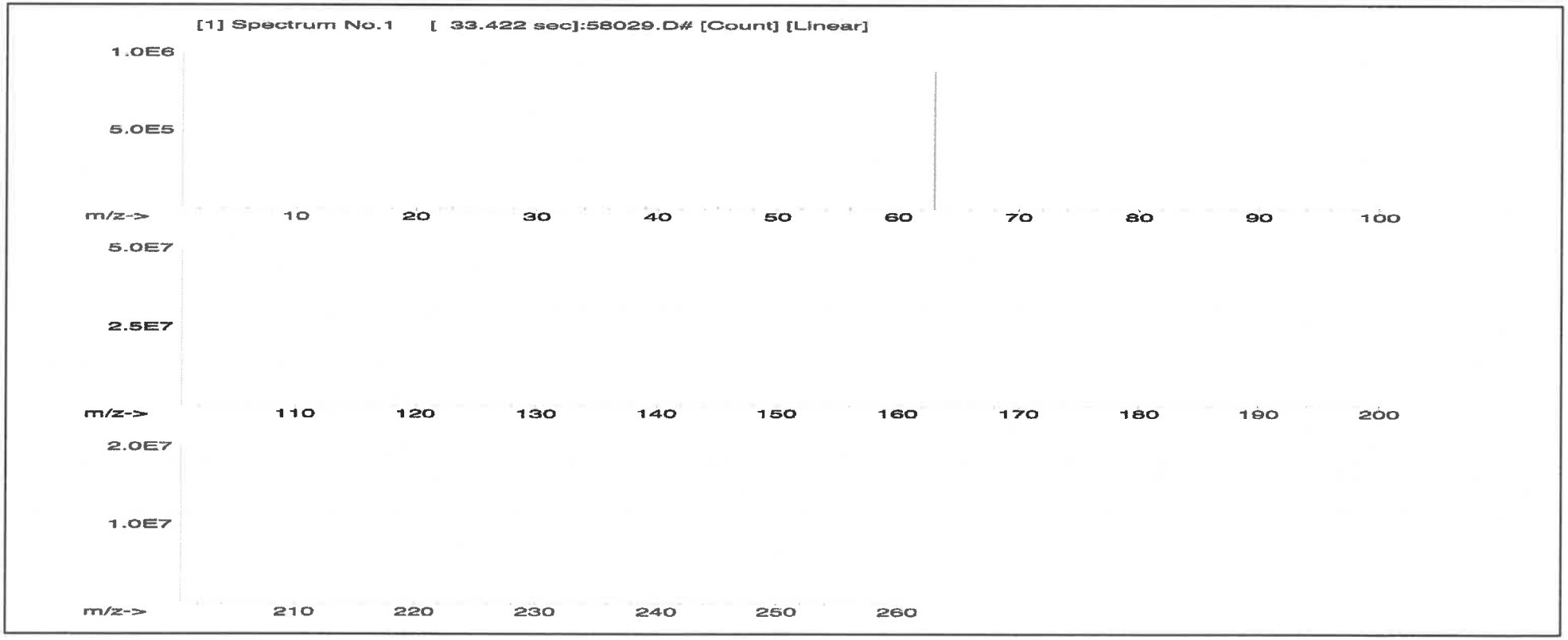
673 of 789

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**58029**	24002546	Nitric Acid	
Lot Number:	**102523**			
Description:	**Copper (Cu)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	102526			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Copper(II) nitrate trihydrate (Cu)	58129	100223	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114



Q1769-METALS

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/25/23 M5751

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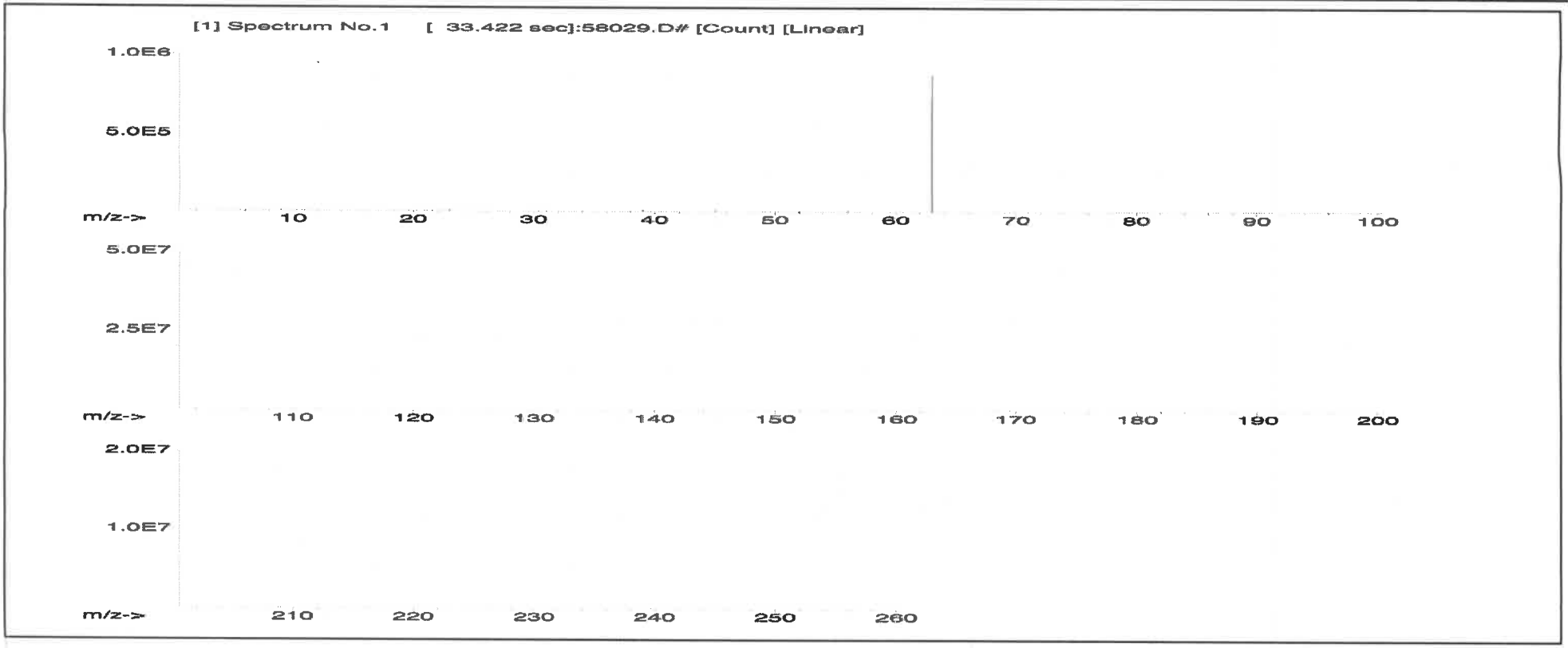
CERTIFIED WEIGHT REPORT:

Part Number:	**58029**
Lot Number:	**071723**
Description:	**Copper (Cu)**
Expiration Date:	071726
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**1000**
NIST Test Number:	6UTB
Volume shown below was diluted to (mL):	2000.02

Lot #	Solvent:		
21110221	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	
5E-05	Balance Uncertainty		
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



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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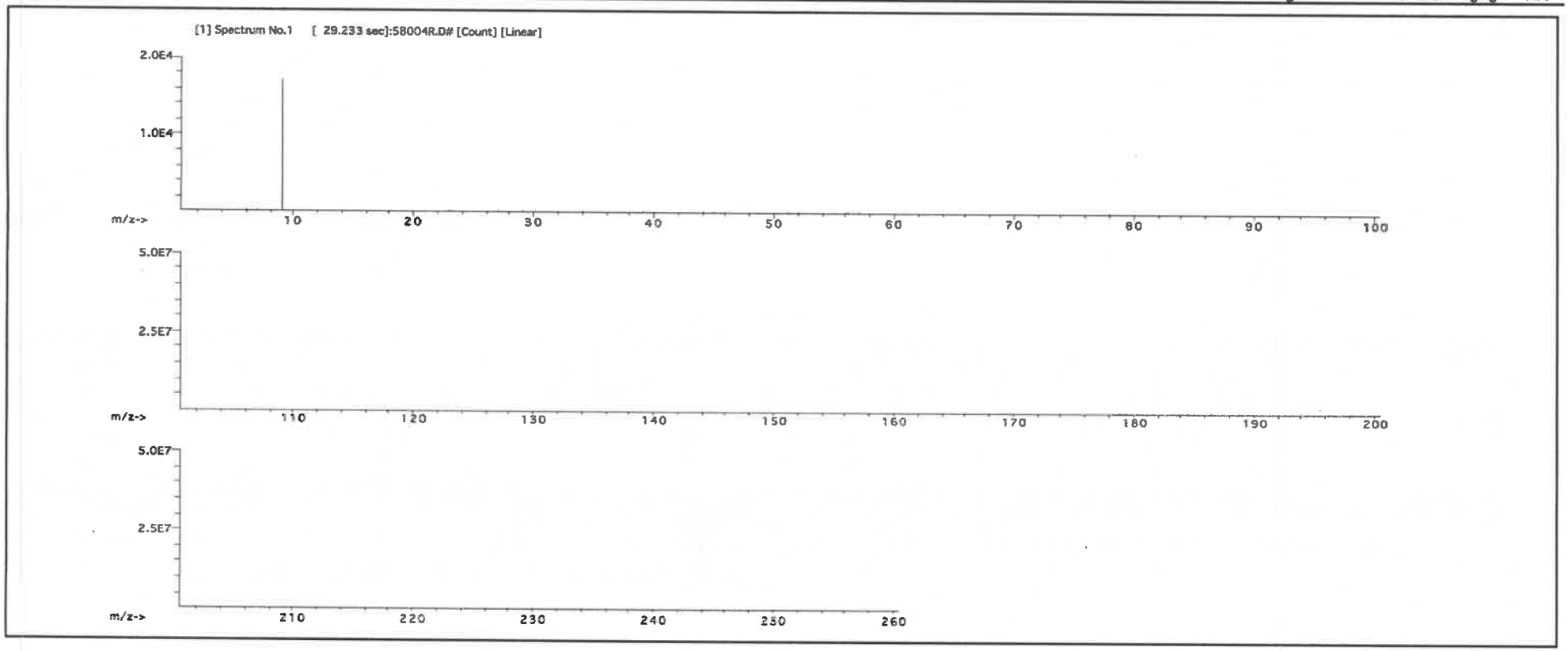
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	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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BA

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

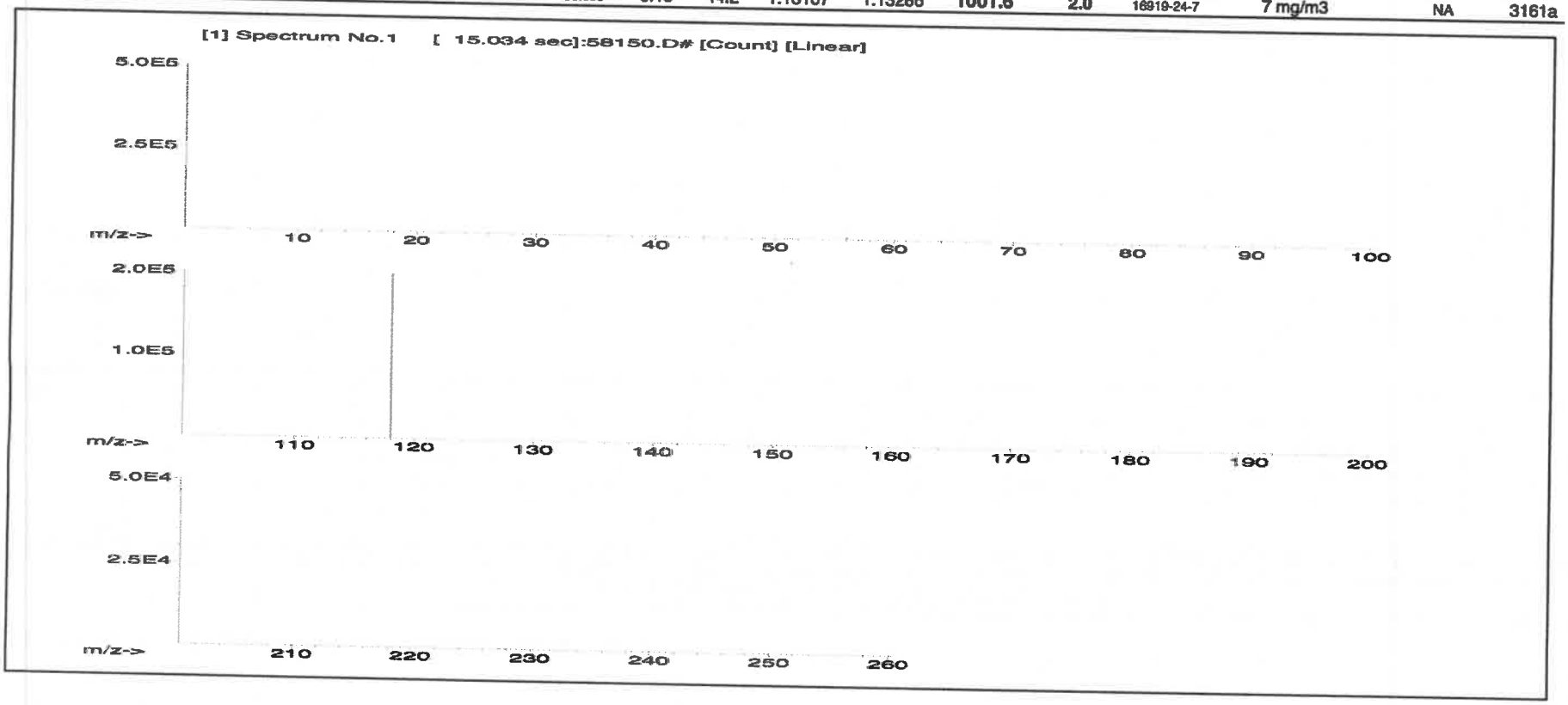
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	Lot #	
Solvents:	21110221	Nitric Acid
	22D0562008	Hydrochloric acid
2%	10.0	Nitric Acid
6%	30.0	Hydrochloric acid
	(mL)	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Benson Chan	071123
Reviewed By:	Pedro L. Rentas	071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium hexafluorostannate(IV) (Sn)	IN010	SND042023A1	1000	99.999	0.10	44.2	1.13107	1.13286	**1001.6**	**2.0**	16919-24-7	7 mg/m3	NA	3161a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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Certified by:

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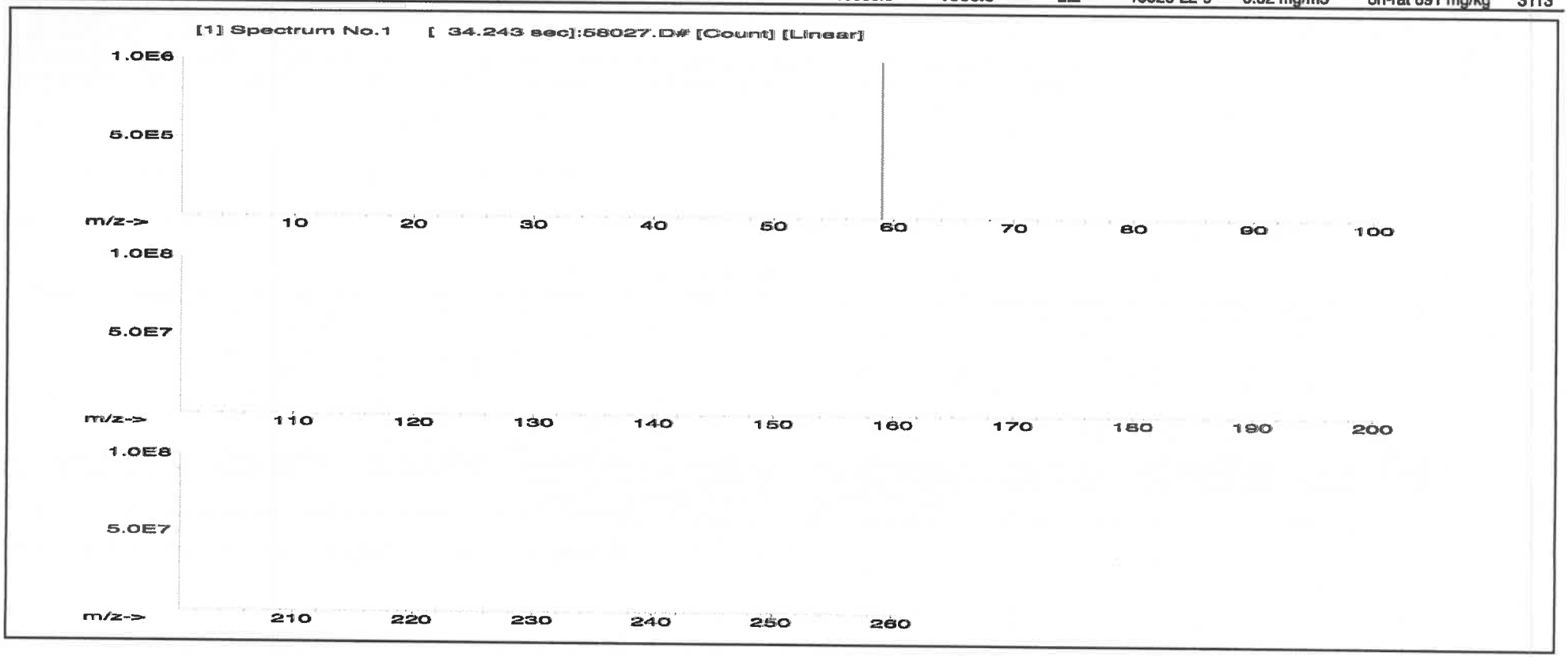
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	2.2	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

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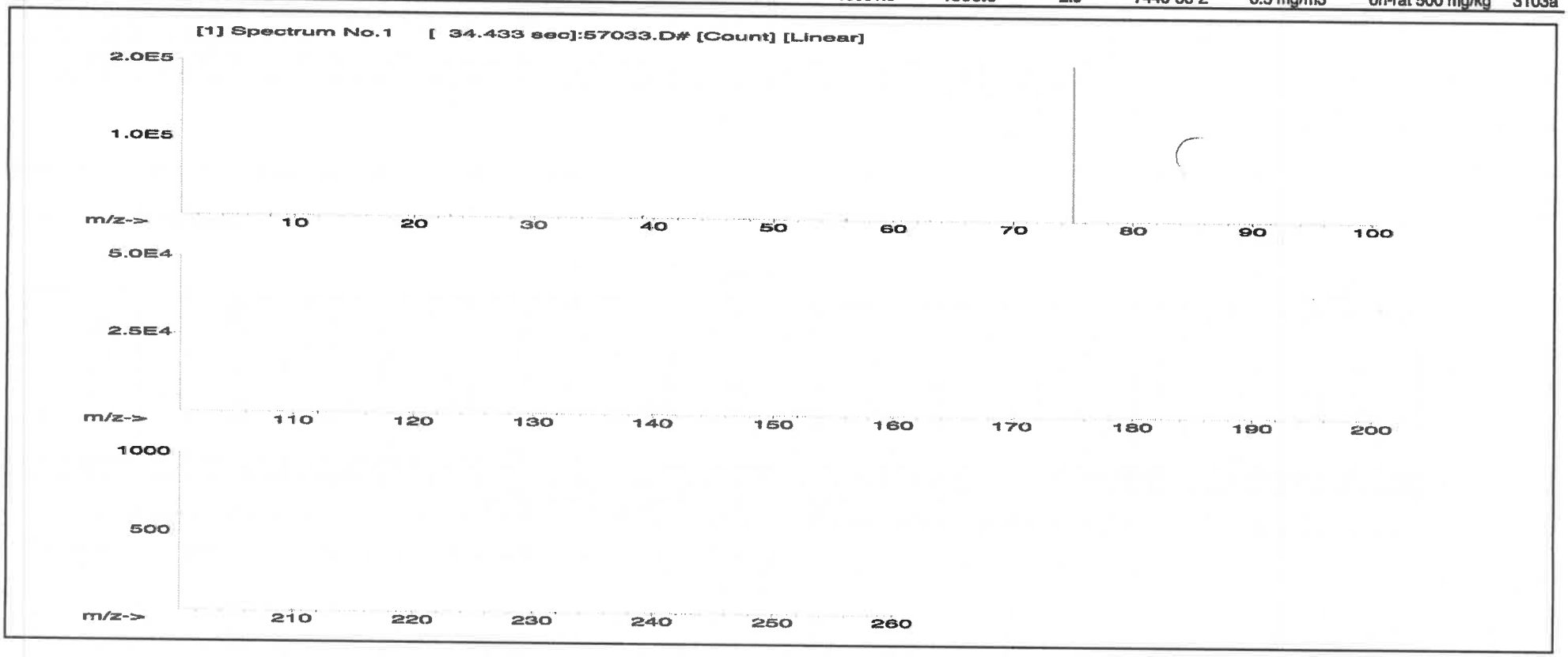
Revised

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**				
Lot Number:	**111323**	24002546	Nitric Acid		
Description:	**Arsenic (As)**				
		2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

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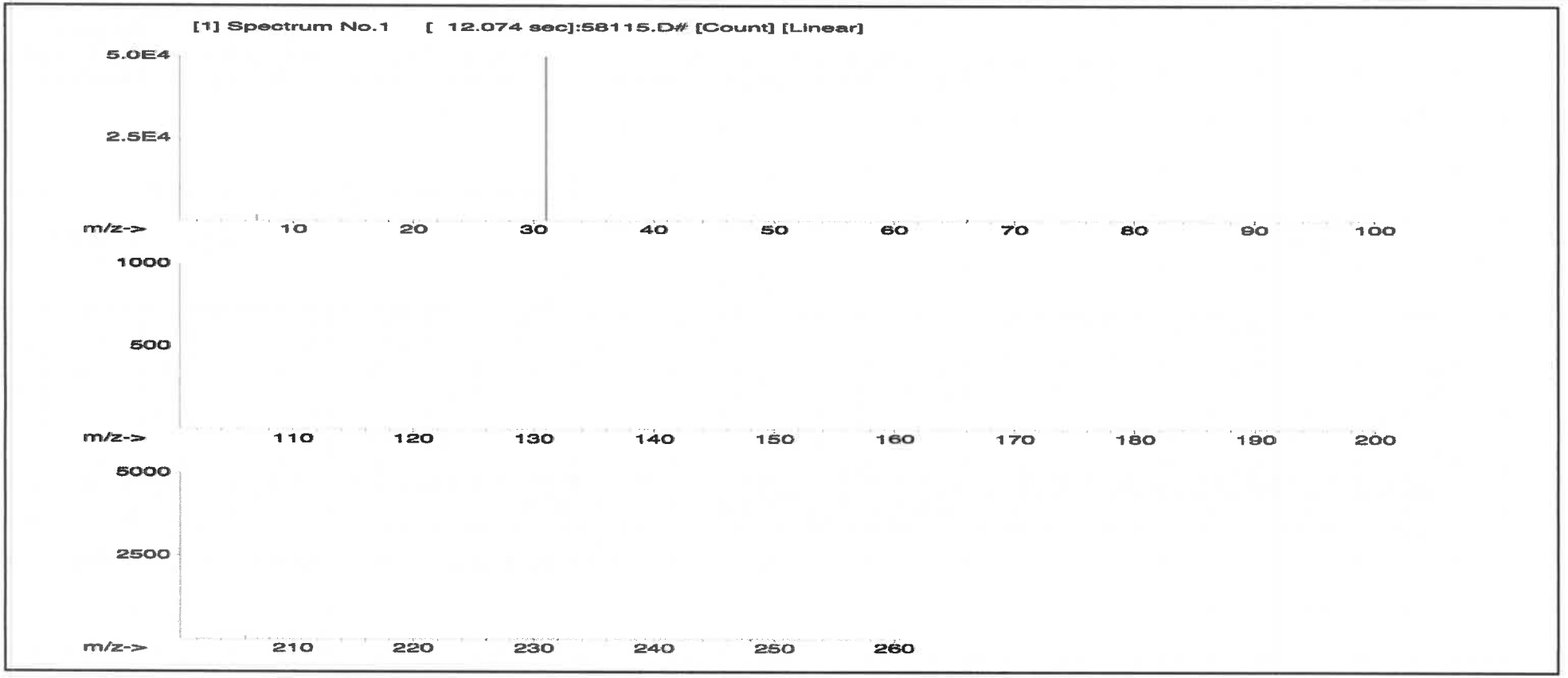
CERTIFIED WEIGHT REPORT:

Part Number:	**57115**		**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**				
Description:	**Phosphorous (P)**		2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certified Reference Material CRM

R: 02/09/24 M5817

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

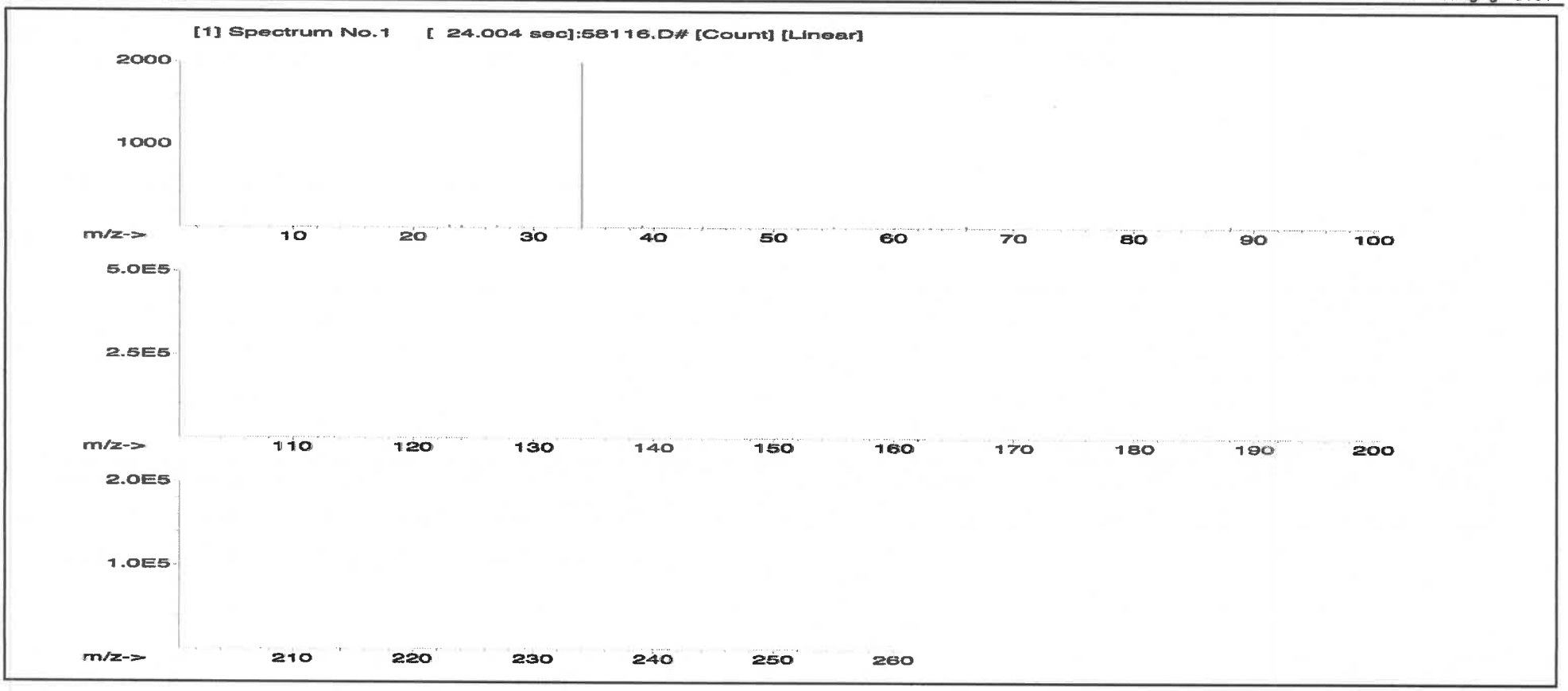
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

Lot #
Solvent: 071123 ASTM Type 1 Water

Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 1999.48 0.058 Flask Uncertainty

Formulated By:	Lawrence Barry 071123
Reviewed By:	Pedro L. Rentas 071123

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium sulfate (S)	IN117	SLBR7225V	10000	99.9	0.10	24.3	82.4675	82.4682	**10000.1**	**20.0**	7783-20-2	NA	ori-rat 4250mg/kg	3181



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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R: 02/22/24 M5942

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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:	CGTI1
Lot Number:	T2-TI719972
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Titanium
Starting Material:	Ti Metal
Starting Material Lot#:	2094
Starting Material Purity:	99.9975%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

Density: 1.012 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000536	M	Eu	<	0.000268	O	Na	<	0.032670	M	Se		0.001204	O	Zn	<	0.003267
O	Al		0.000872	O	Fe		0.003225	O	Nb	<	0.043560	O	Si		0.004735	O	Zr	<	0.043560
M	As	<	0.008586	M	Ga	<	0.000268	M	Nd	<	0.000268	M	Sm	<	0.000268				
M	Au	<	0.004577	M	Gd	<	0.000268	O	Ni	<	0.010890	M	Sn		0.000096				
O	B	<	0.008929	M	Ge	<	0.002146	M	Os	<	0.000269	O	Sr		0.000096				
M	Ba	<	0.002683	M	Hf		0.002161	O	P	<	0.054450	M	Ta		0.010560				
M	Be	<	0.005366	M	Hg	<	0.003231	M	Pb	<	0.001073	M	Tb	<	0.000268				
M	Bi	<	0.001609	M	Ho	<	0.000268	M	Pd	<	0.000268	M	Te	<	0.001341				
O	Ca		0.000676	M	In	<	0.002683	M	Pr	<	0.000268	M	Th	<	0.053663				
M	Cd	<	0.000268	M	Ir	<	0.000269	M	Pt	<	0.000536	s	Ti	<					
M	Ce	<	0.000268	M	K		0.001172	M	Rb	<	0.000268	M	Tl	<	0.000268				
M	Co	<	0.004293	M	La	<	0.000268	M	Re	<	0.000268	M	Tm	<	0.000268				
M	Cr		0.000752	O	Li	<	0.027225	M	Rh	<	0.000268	M	U	<	0.000268				
M	Cs	<	0.000268	M	Lu	<	0.000268	M	Ru	<	0.000269	M	V	<	0.019855				
O	Cu	<	0.010890	O	Mg	<	0.005445	i	S	<		M	W		0.000473				
M	Dy	<	0.000268	O	Mn	<	0.003267	M	Sb	<	0.006976	M	Y	<	0.002146				
M	Er	<	0.000268	M	Mo		0.000774	O	Sc	<	0.004900	M	Yb	<	0.000536				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 47.87 +4 6 Ti(F)6-2

Chemical Compatibility - Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

Stability - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

Ti Containing Samples (Preparation and Solution) - Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores (fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 48 amu	14 ppt	N/A	32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)]
ICP-OES 323.452 nm	0.0054 / 0.00092 µg/mL	1	Ce, Ar, Ni
ICP-OES 334.941 nm	0.0038 / 0.000028 µg/mL	1	Nb, Ta, Cr, U
ICP-OES 336.121 nm	0.0053 / 0.000034 µg/mL	1	W, Mo, Co

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certified Reference Material CRM

M5961 R: 6/11/24

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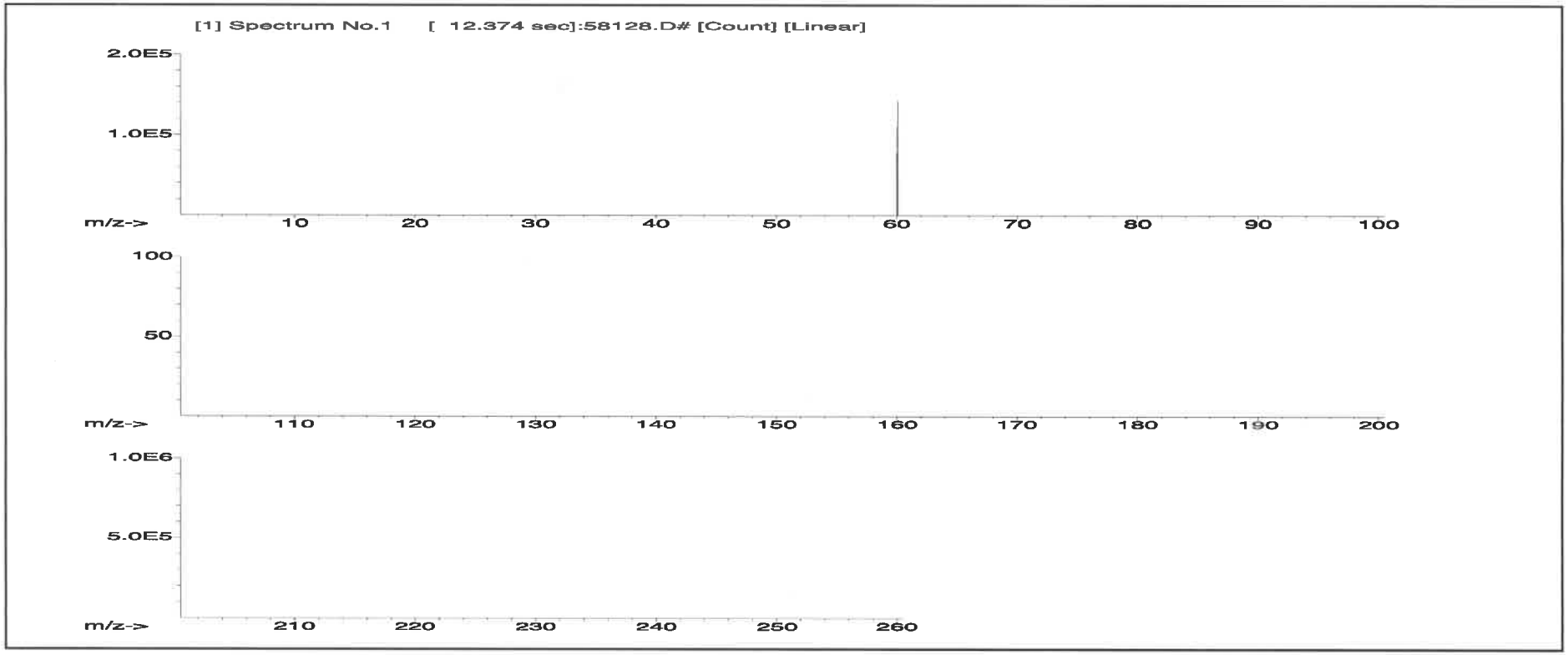
CERTIFIED WEIGHT REPORT:

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



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AR-1539 Certificate Number
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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	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* 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

M5962 R! 06/14/24.

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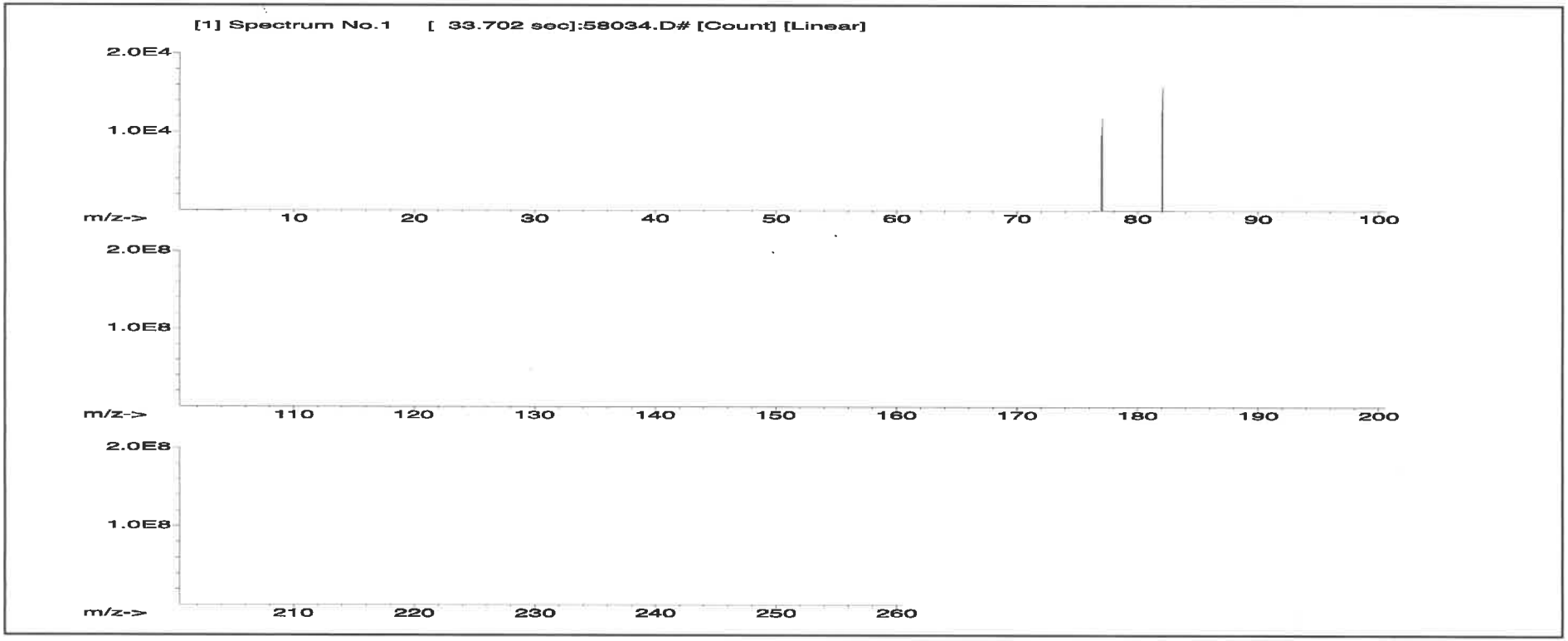
CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	24002546	Nitric Acid	
Lot Number:	**060624**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	060627			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.07	0.100	Flask Uncertainty	

Formulated By:	Benson Chan	060624
Reviewed By:	Pedro L. Rentas	060624

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Selenium (Se)	58134	071223	0.1000	200.0	0.084	1000	10002.5	**1000.0**	**2.2**	7782-49-2	0.2 mg/m3	orl-rat 6700 mg/kg	3149



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	T	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Certificate of Analysis

M5976, M5977
R: 02/22/24

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inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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,79Br16O,190Os2+,190Pt2+
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

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

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5981 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		

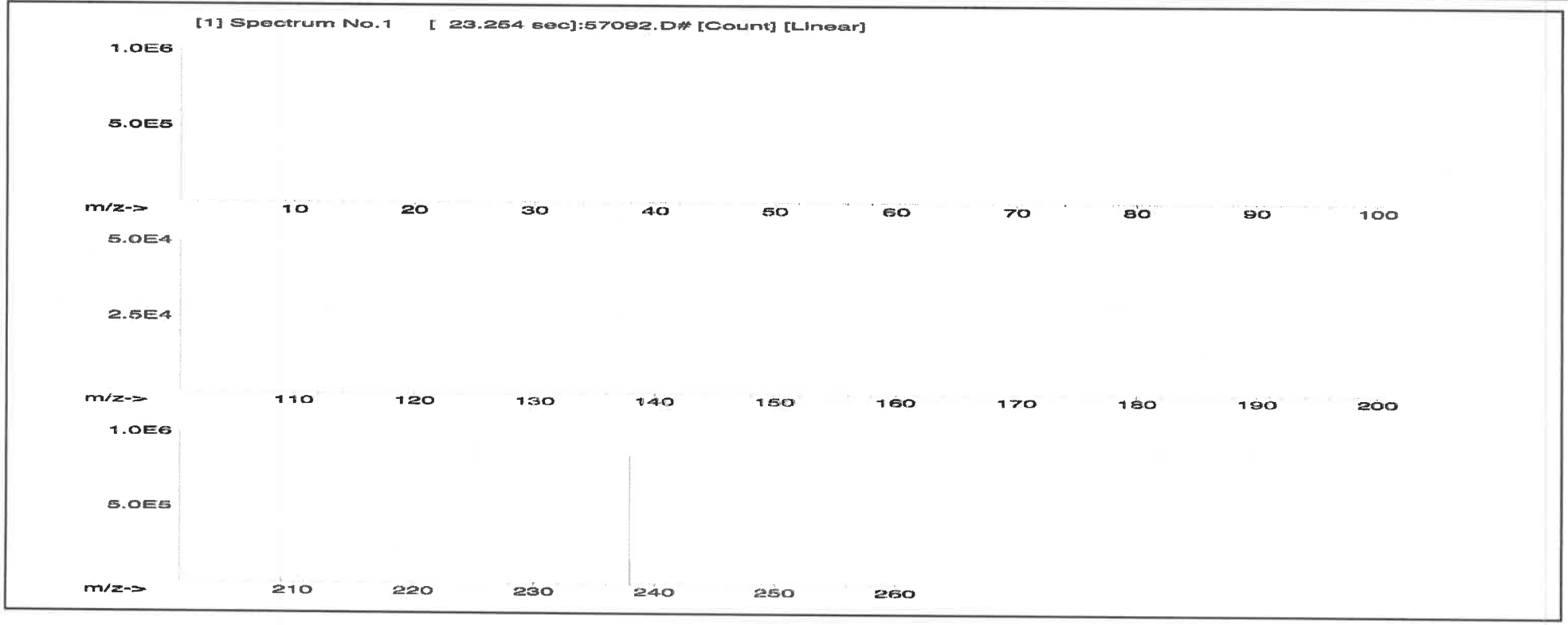
Giovanni Esposito

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



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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5983 R: 6/11/24

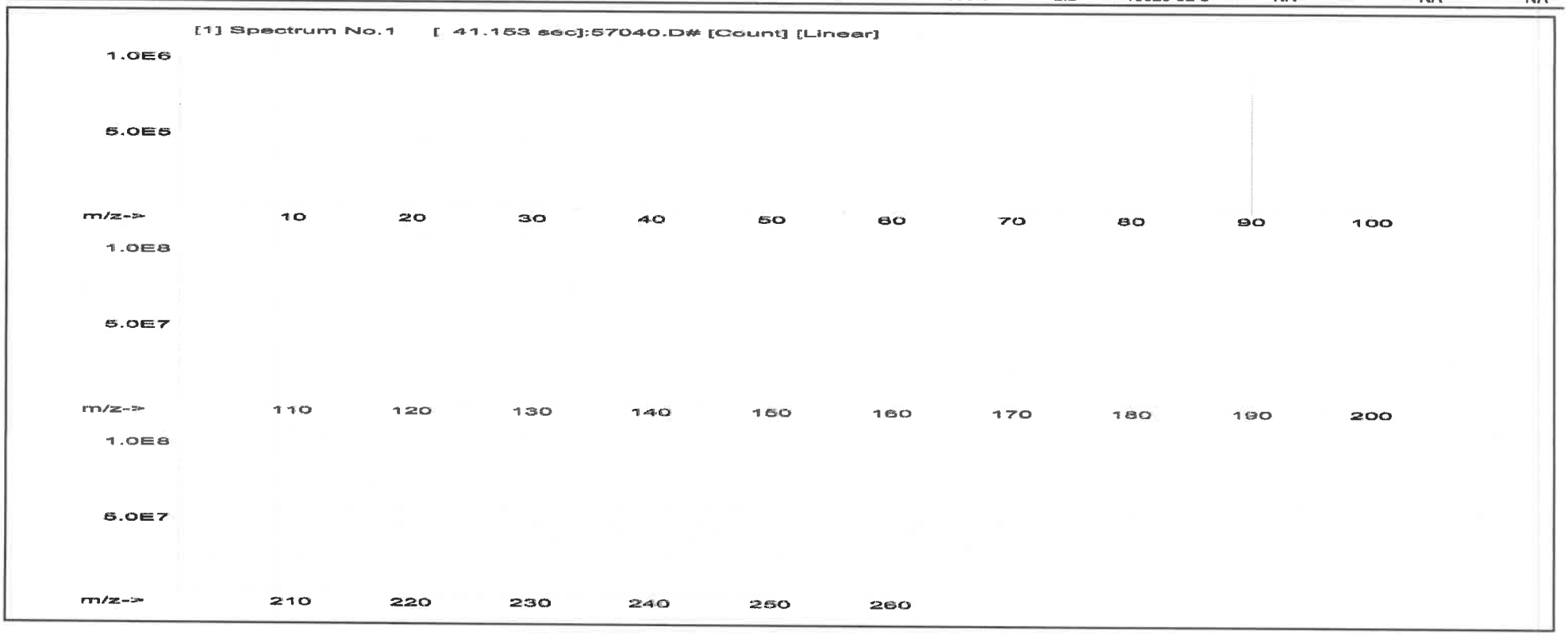
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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INORGANIC VENTURES™
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Certificate of Analysis

R 18/19/24, M60055

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	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

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

R! 08/22/24 M6058, M6059

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:	CHEM-CLP-4
Lot Number:	V2-MEB746172
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	1 000 ± 5 µg/mL	Molybdenum, Mo	1 000 ± 5 µg/mL
Silicon, Si	1 000 ± 7 µg/mL	Tin, Sn	1 000 ± 5 µg/mL
Titanium, Ti	1 000 ± 6 µg/mL		

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	190605
B	Calculated		See Sec. 4.2
Mo	ICP Assay	traceable to 3134	U2-MO739068
Si	ICP Assay	Traceable to 3150	S2-SI702546
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	traceable to 3162a	T2-TI725816

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

August 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

- August 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

M6079 R1 9/30/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

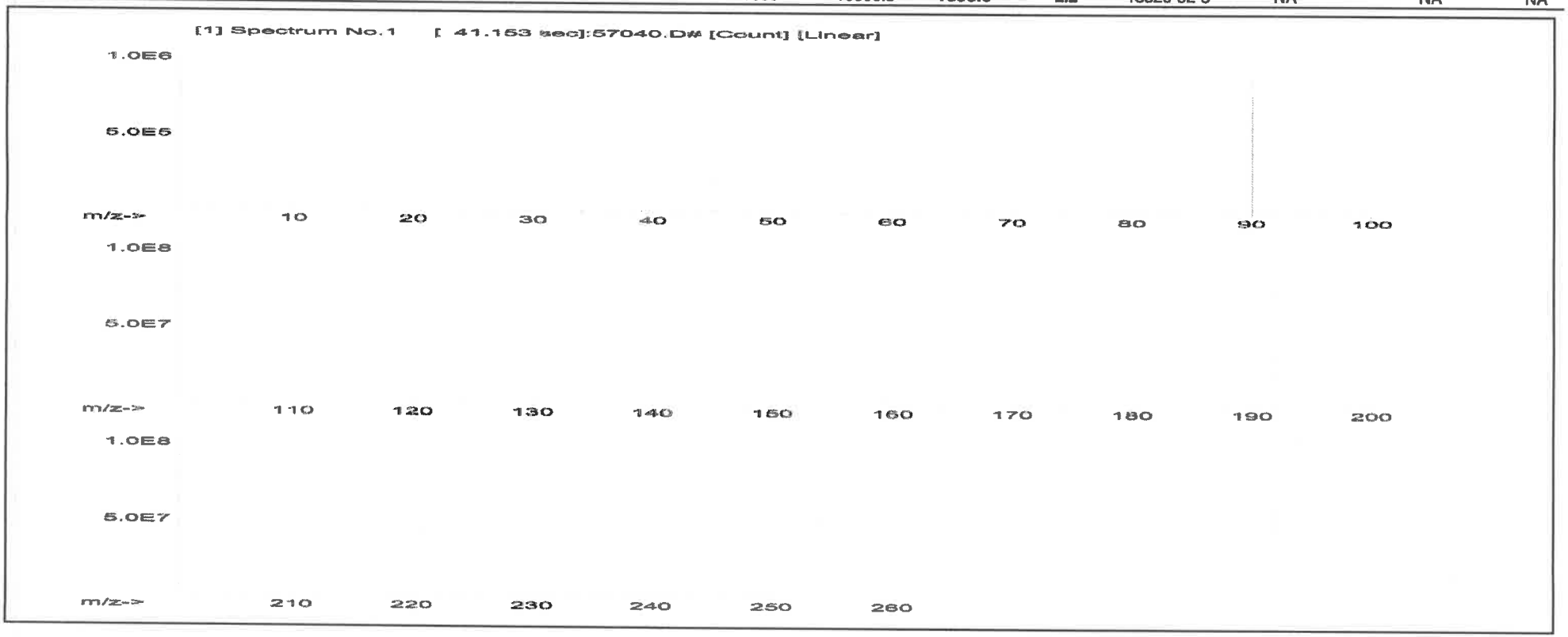
Revised

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57040**	21110221	Nitric Acid	
Lot Number:	**071423**			
Description:	**Zirconium (Zr)**	2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	071426			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Benson Chan	071423
Reviewed By:	Pedro L. Rentas	071423

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zirconyl chloride octahydrate (Zr)	58140	070621	0.1000	200.0	0.084	1000	10000.3	**1000.0**	**2.2**	13520-92-8	NA	NA	NA



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ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

M6125 Receive -> 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

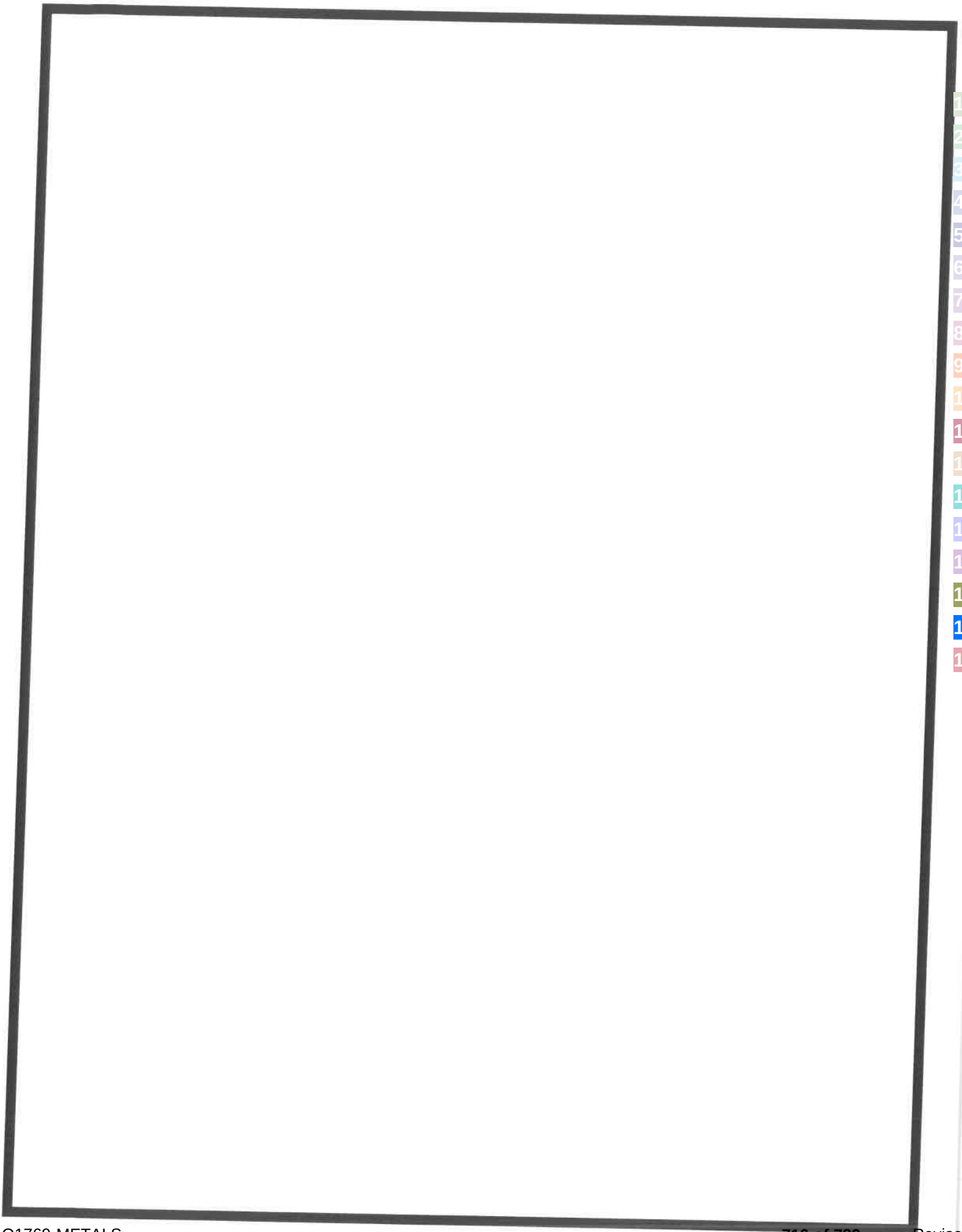
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS

Reagent Grade

SPECIFICATION	MAXIMUM LIMITS
Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO_3)	2 ppm
Phosphate	2 ppm
Sulfate (SO_4)	5 ppm
Ammonium (NH_4)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

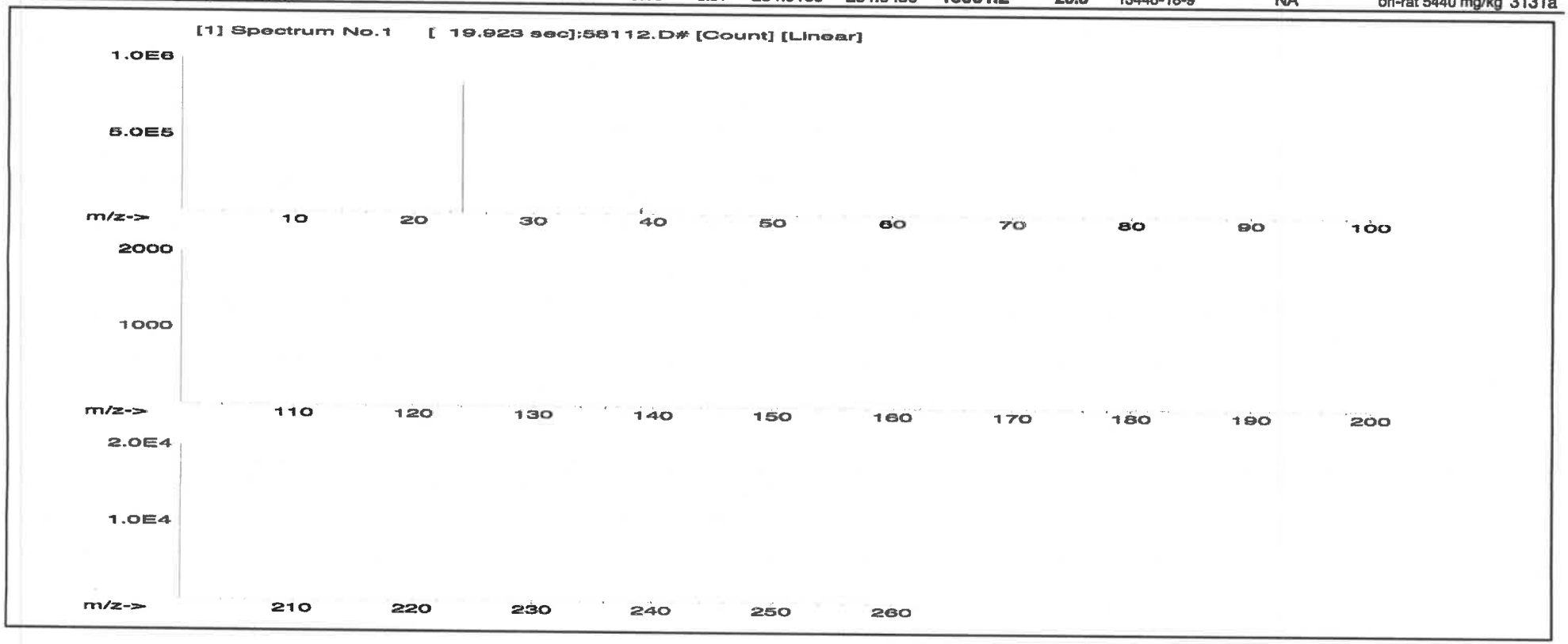
R -> 1/13/25
M 6127

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



Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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.
* 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

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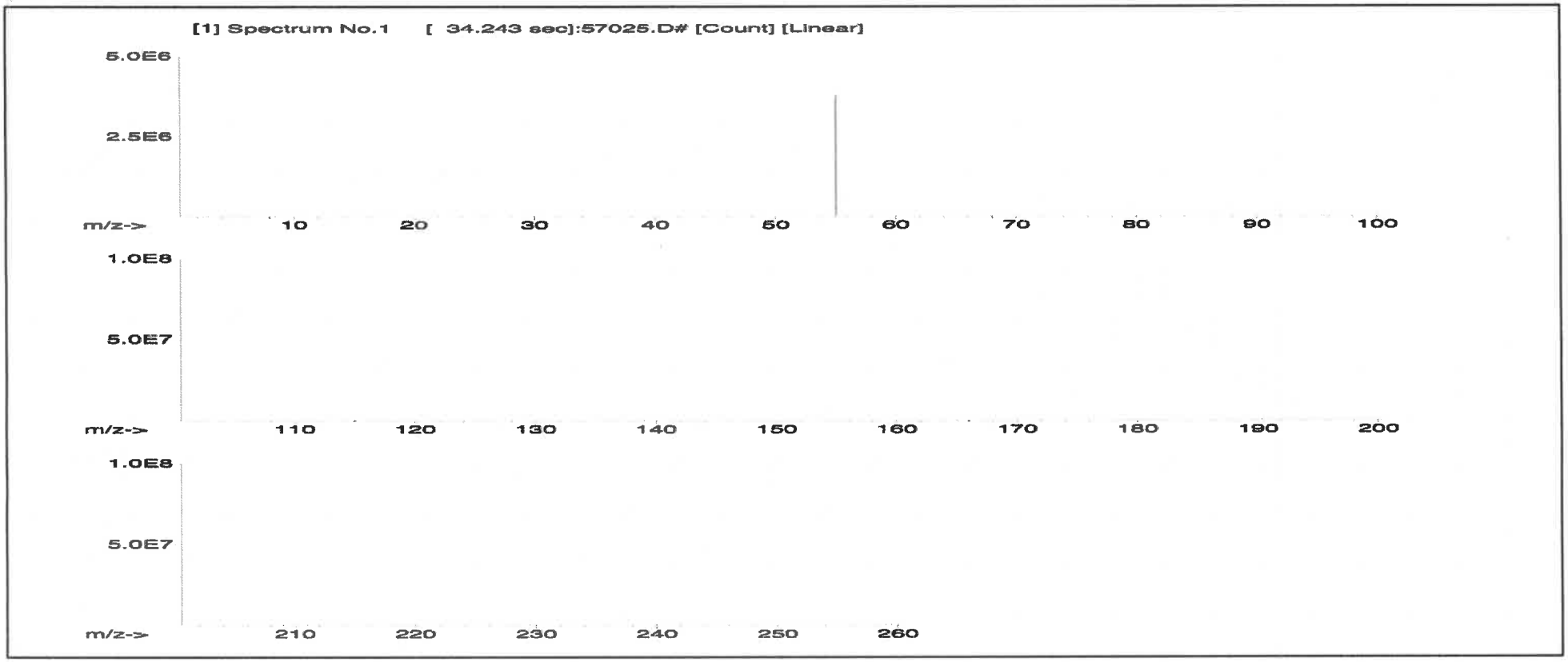
CERTIFIED WEIGHT REPORT:

R->1/13/25
M6128

Part Number:	**58025**		**Solvent:**	**Lot #** 24002546	Nitric Acid
Lot Number:	**101124**				
Description:	**Manganese (Mn)**		2%	80.0 (mL)	Nitric Acid
Expiration Date:	101127				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	4000.2	0.10	Flask Uncertainty		

Giovanni Esposito		
Formulated By:	Giovanni Esposito	101124
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	101124

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	**SDS Information** (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Manganese(II) nitrate hydrate (Mn)	IN031	MNM092020A1	1000	99.999	0.10	20.8	19.2322	19.2344	**1000.1**	**2.0**	15710-66-4	5 mg/m3	orl-rat >300mg/kg	3132



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	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:

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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Certificate of Analysis

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M6137 R→10/3/24

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSI1
Lot Number:	V2-SI744713
Matrix:	tr. HNO3 tr. HF
Value / Analyte(s):	1 000 µg/mL ea: Silicon
Starting Material:	Silica
Starting Material Lot#:	1771
Starting Material Purity:	99.9981%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 6 µg/mL

Density: 1.003 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **999 ± 5 µg/mL**
ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546

Assay Method #2 **1000 ± 7 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	O	Na		0.001656	M	Se	<	0.022000	M	Zn	<	0.002500
M	Al		0.010787	M	Fe	<	0.027000	M	Nb	<	0.001300	s	Si	<		O	Zr	<	0.001900
M	As	<	0.001900	M	Ga	<	0.001300	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	M	Ni	<	0.005500	M	Sn		0.000096				
M	B		0.016180	M	Ge	<	0.001900	M	Os	<	0.000610	O	Sr		0.000092				
M	Ba		0.000096	M	Hf		0.000423	i	P	<		M	Ta		0.002542				
O	Be	<	0.000570	M	Hg	<	0.000610	M	Pb	<	0.000310	M	Tb	<	0.000310				
M	Bi	<	0.000310	M	Ho	<	0.000610	M	Pd	<	0.000610	M	Te	<	0.000910				
O	Ca		0.011557	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.001900				
M	Cd	<	0.000310	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.001078				
M	Ce	<	0.000610	O	K		0.000577	M	Rb	<	0.009100	M	Tl	<	0.000310				
M	Co	<	0.001600	M	La	<	0.000310	M	Re	<	0.000310	M	Tm	<	0.000310				
M	Cr	<	0.010000	O	Li	<	0.000460	M	Rh	<	0.000310	M	U	<	0.000310				
M	Cs	<	0.000310	M	Lu	<	0.000310	M	Ru	<	0.000310	O	V	<	0.001300				
M	Cu	<	0.002500	O	Mg		0.001348	O	S	<	0.570000	M	W	<	0.001900				
M	Dy	<	0.000310	M	Mn	<	0.002500	M	Sb	<	0.000310	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000310	O	Sc	<	0.000590	M	Yb	<	0.000310				

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 - 28.09 +4 6 Si(OH)x(F)y2-

Chemical Compatibility -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. 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 silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

Stability - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

Si Containing Samples (Preparation and Solution) -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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 28 amu	4000 - 8000 ppt	N/A	N2, 12C16O
ICP-OES 212.412 nm	0.02/0.01 µg/mL	1	Hf, Os, Mo, Ta
ICP-OES 251.611 nm	0.012/0.003 µg/mL	1	Ta, U, Zn, Th
ICP-OES 288.158 nm	0.03/0.004 µg/mL	1	Ta, Ce, Cr, Cd, Th

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 10, 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

- **July 10, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Revised

CERTIFIED WEIGHT REPORT:

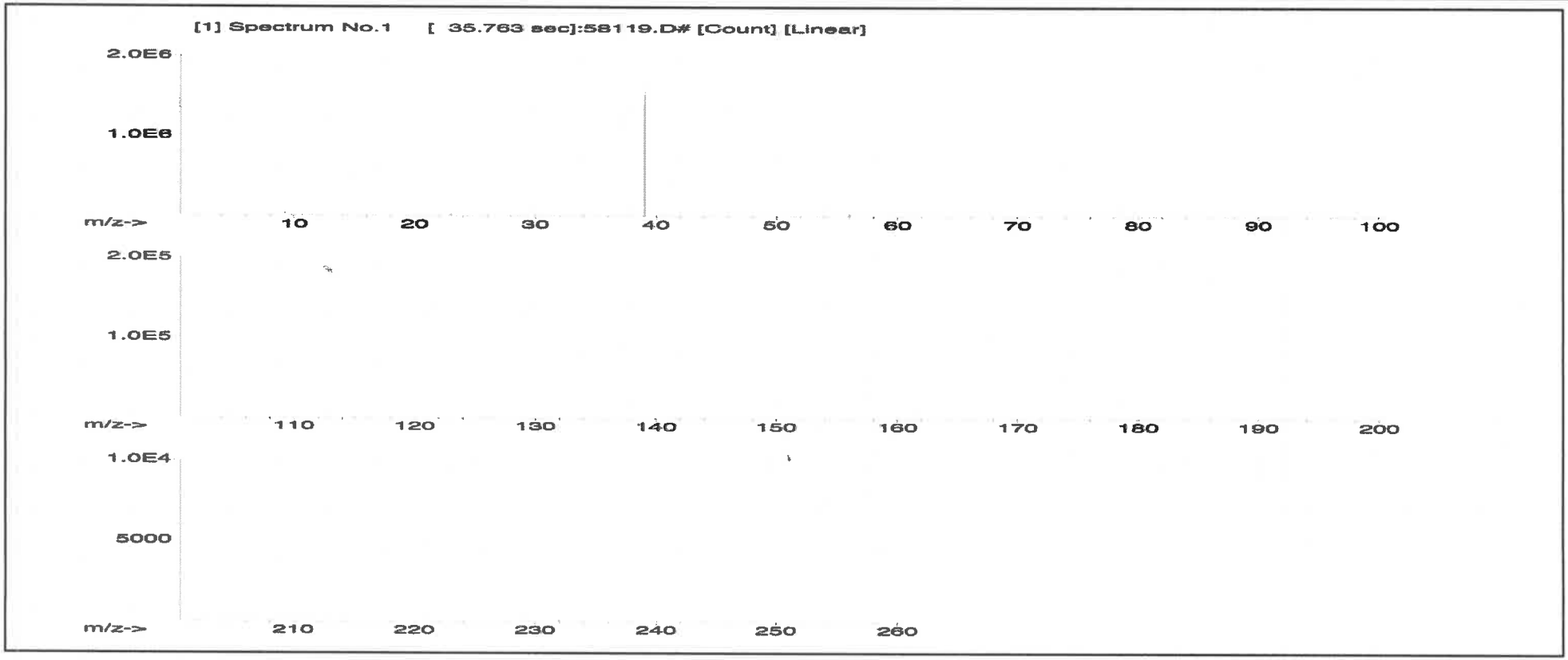
R-> 1/13/25

Part Number:	**57119**		**Lot #**		
Lot Number:	**103024**	**Solvent:**	24002546	Nitric Acid	
Description:	**Potassium (K)**	2%	80.0 (mL)	Nitric Acid	
Expiration Date:	103027				
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):	4000.1	0.15	Flask Uncertainty		

M6141
M6142
M6143

Giovanni Esposito	
Formulated By:	Giovanni Esposito 103024
Pedro Rentas	
Reviewed By:	Pedro L. Rentas 103024

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	KD062022A1	10000	99.999	0.10	37.7	106.1040	######	**10001.1**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3750 mg/kg	3141a



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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
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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
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Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Revised

CERTIFIED WEIGHT REPORT:

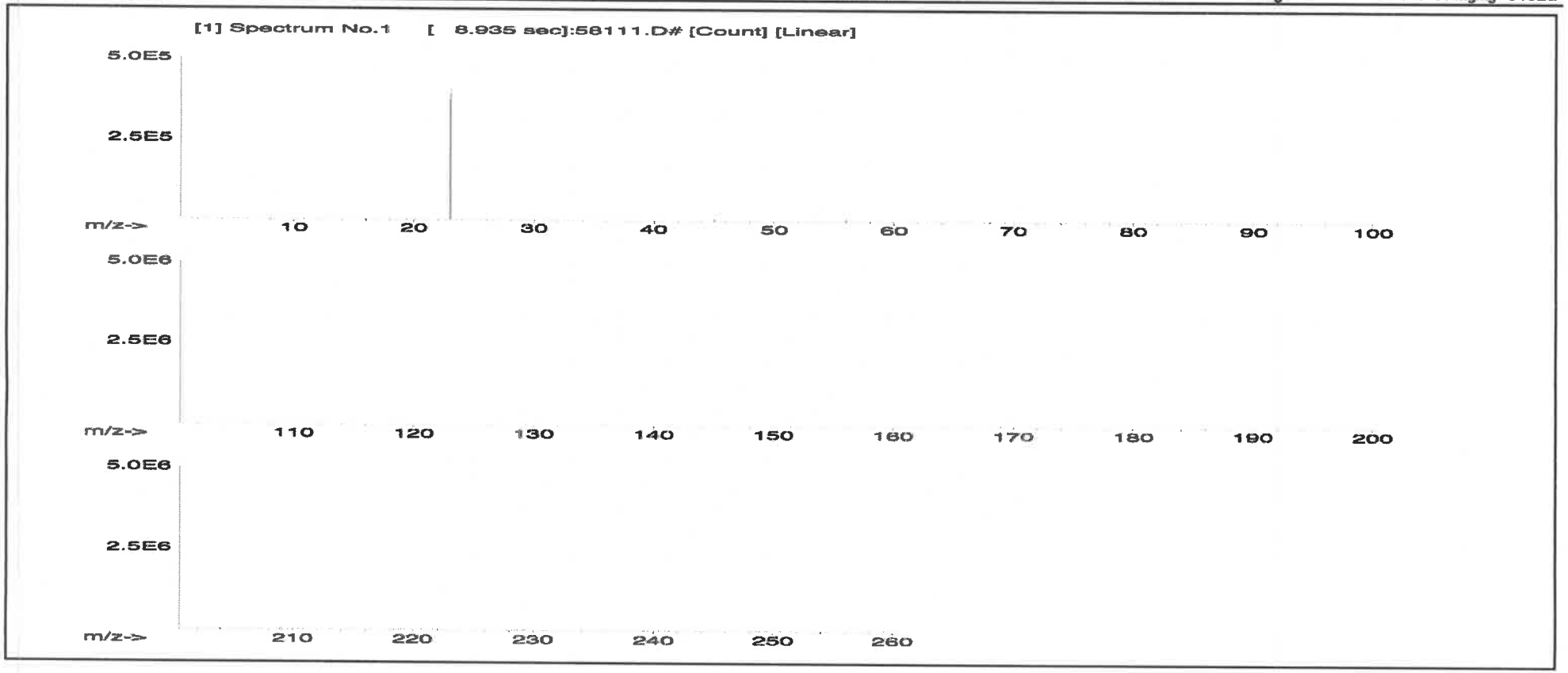
R->1/13/25

M6144

Part Number:	**58111**		**Lot #**		
Lot Number:	**072424**	**Solvent:**	24002546	Nitric Acid	
Description:	**Sodium (Na)**				
		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



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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	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.

* 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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Revised

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 121724
Description: Zinc (Zn)

R → 1/13/25

M6145

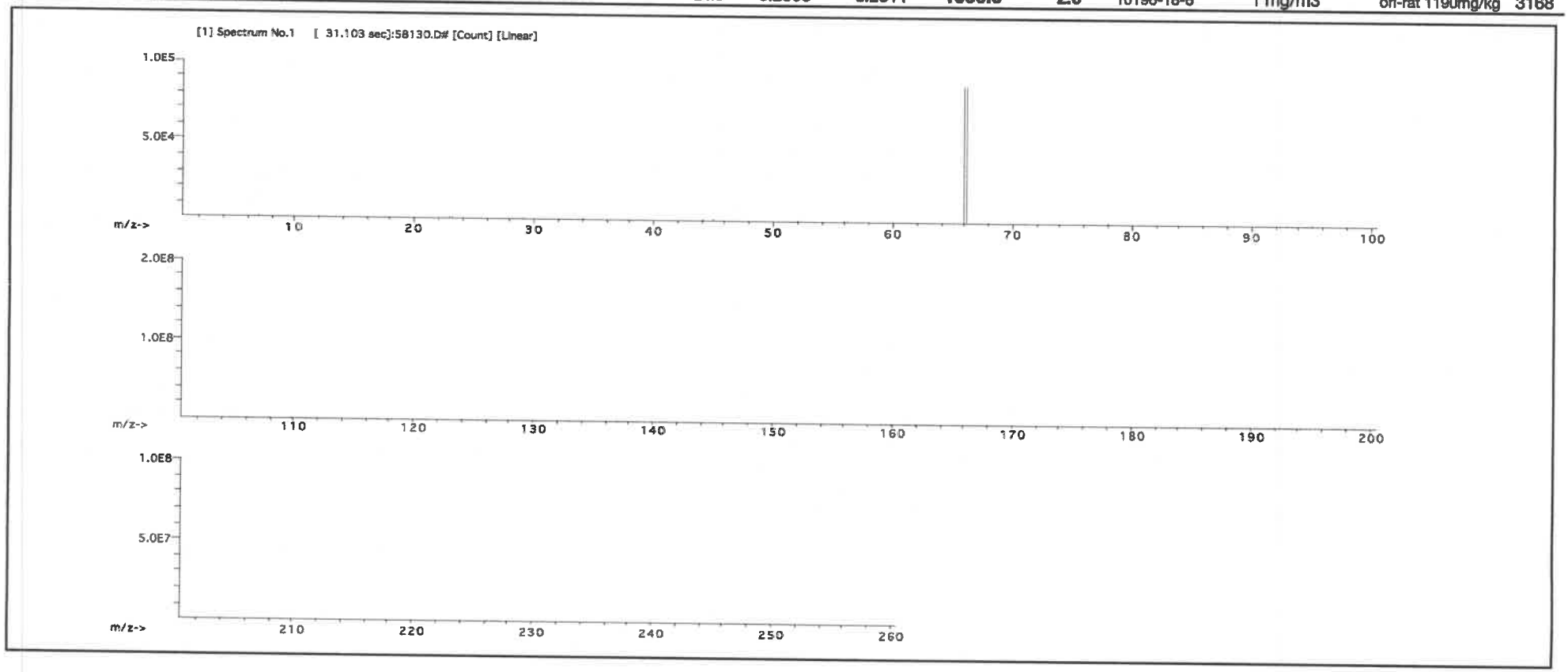
Expiration Date: 121727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.1

	Lot #	
Solvent:	24012496	Nitric Acid
2%	40.0 (mL)	Nitric Acid
5E-05	Balance Uncertainty	
0.10	Flask Uncertainty	

Aleah O'Brady

Formulated By:	Aleah O'Brady	121724
Reviewed By:	Pedro L. Rentas	121724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Zinc nitrate hexahydrate (Zn)	IN016	ZNE032021A1	1000	99.999	0.10	24.3	8.2308	8.2311	**1000.0**	**2.0**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168



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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

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:

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).

R : 4/20/21

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6180

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 >>>

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.

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

R→1/7/23
M6153

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:	CGSR10
Lot Number:	V2-SR745329
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Strontium
Starting Material:	Strontium Carbonate
Starting Material Lot#:	2647
Starting Material Purity:	99.9960%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10081 ± 39 µg/mL

Density: 1.030 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10059 ± 50 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **10087 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- 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	<	0.000960	M	Eu	<	0.000480	O	Na		0.002964	M	Se	<	0.042000	M	Zn	0.004560
M	Al		0.003420	O	Fe		0.013225	M	Nb	<	0.000480	O	Si		0.012997	M	Zr	0.001847
M	As	<	0.007200	M	Ga	<	0.002900	M	Nd	<	0.000480	M	Sm	<	0.000480			
M	Au	<	0.003900	M	Gd	<	0.000480	O	Ni		0.001482	M	Sn	<	0.000480			
O	B	<	0.003200	M	Ge	<	0.004800	M	Os	<	0.001500	s	Sr	<				
M	Ba		0.638494	M	Hf	<	0.000480	O	P	<	0.017000	M	Ta	<	0.000480			
O	Be	<	0.000450	M	Hg	<	0.000960	M	Pb		0.010717	M	Tb	<	0.000480			
M	Bi	<	0.002000	M	Ho	<	0.000480	M	Pd	<	0.002000	M	Te	<	0.016000			
O	Ca		0.025083	M	In	<	0.008600	M	Pr		0.000547	M	Th	<	0.000480			
M	Cd	<	0.000960	M	Ir	<	0.000480	M	Pt	<	0.000480	M	Ti		0.004560			
M	Ce		0.000661	O	K		0.025083	M	Rb	<	0.003400	M	Tl	<	0.000480			
M	Co		0.001527	M	La	<	0.000480	M	Re	<	0.000480	M	Tm		0.004332			
O	Cr	<	0.004700	O	Li	<	0.005600	O	Rh	<	0.013000	M	U	<	0.000480			
M	Cs	<	0.000480	M	Lu	<	0.000480	M	Ru	<	0.000960	M	V	<	0.000960			
O	Cu	<	0.003800	O	Mg		0.001048	O	S	<	0.045000	M	W	<	0.002400			
M	Dy	<	0.000960	O	Mn		0.000319	M	Sb	<	0.009600	O	Y	<	0.001200			
M	Er	<	0.000480	M	Mo	<	0.002900	M	Sc	<	0.001500	M	Yb	<	0.000480			

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

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

August 26, 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

- August 26, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

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
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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

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:

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

ICSA-0803, Inferferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this solution by ICP-MS.

ICSB-0803, Analytes, mixed with ICSA-0803, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v HNO_3. Analyze this ICSAB solution by ICP-MS.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803

ICSA: M5873

ICSB: M5874

Element	CRQL	Part A (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)	Part A +Part B (µg/L)	Lower Limit (µg/L)	Upper Limit (µg/L)
Al	20.0	[100000]			[100000]		
Sb	2.0	(1.5)	-2.5	5.5	(22.0)	18.0	26.0
As	1.0	(0.1)	-1.9	2.1	19.0	16.2	21.9
Ba	10.0	(1.2)	-18.8	21.2	(22.0)	2.0	42.0
Be	1.0	(0)	-2.0	2.0	19.0	16.2	21.9
Cd	1.0	(0.7)	-1.3	2.7	20.0	17.0	23.0
Ca	500	[100000]			[100000]		
C		[200000]			[200000]		
Cl		[1000000]			[1000000]		
Cr	2.0	(21.0)	17.0	25.0	40.0	34.0	46.0
Co	1.0	(1.0)	-1.0	3.0	20.0	17.0	23.0
Cu	2.0	(8.0)	4.0	12.0	(25.0)	21.0	29.0
Fe	200	[100000]			[100000]		
Pb	1.0	(4.0)	2.0	6.0	25.0	21.3	28.8
Mg	500	[100000]			[100000]		
Mn	1.0	(7.0)	5.0	9.0	27.0	23.0	31.1
Mo		[2000]			[2000]		
Ni	1.0	(6.0)	4.0	8.0	24.0	20.4	27.6
P		[100000]			[100000]		
K	500	[100000]			[100000]		
Se	5.0	(0.3)	-9.7	10.3	(19.0)	9.0	29.0
Ag	1.0	(0)	-2.0	2.0	18.0	15.3	20.7
Na	500	[100000]			[100000]		
S		[100000]			[100000]		
Tl	1.0	(0)	-2.0	2.0	21.0	17.9	24.2
Ti		[2000]			[2000]		
V	5.0	(0.5)	-9.5	10.5	(19.0)	9.0	29.0
Zn	5.0	(11.0)	1.0	21.0	(29.0)	19.0	39.0

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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

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

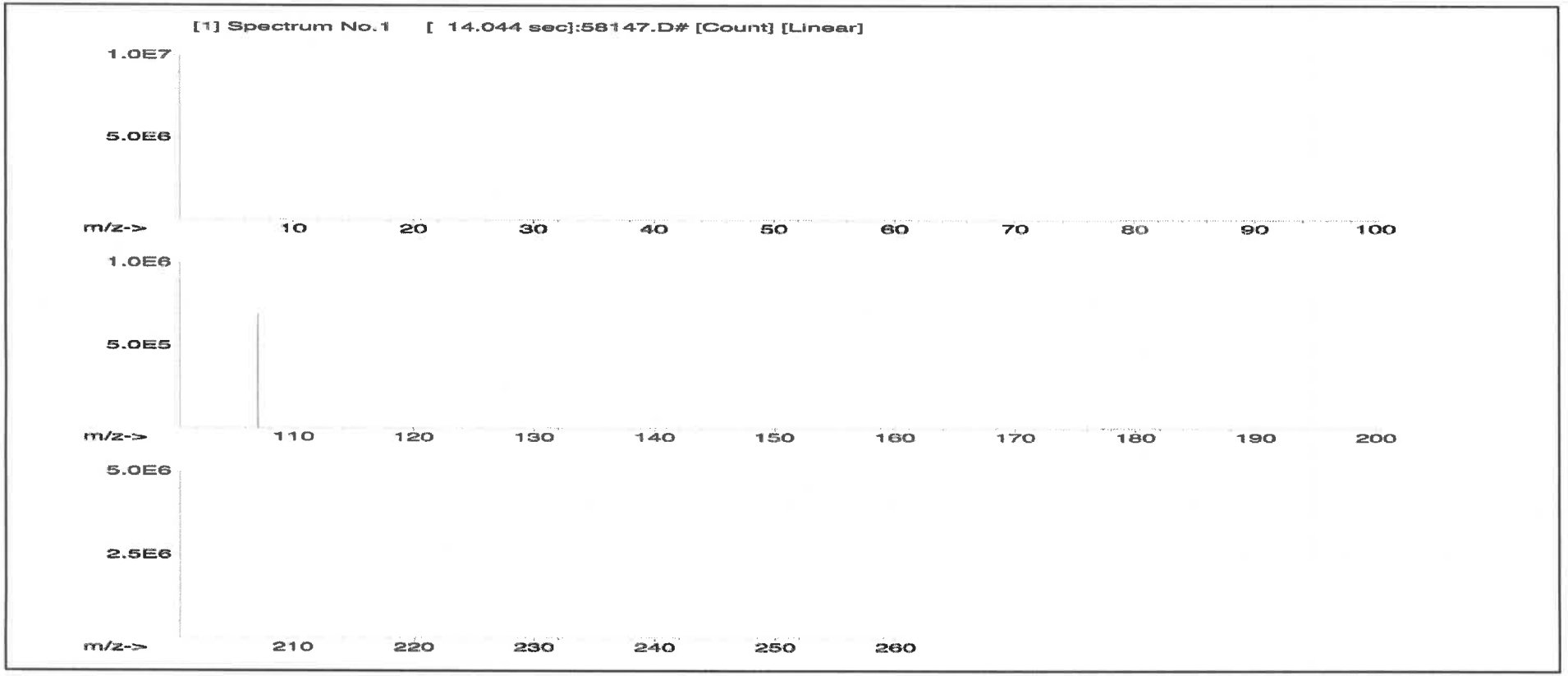
Weight shown below was diluted to (mL): 4000.30 0.058 Flask Uncertainty

	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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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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:

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: 10/18/24

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CERTIFIED WEIGHT REPORT:

MG146

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)
Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26 ± 0.058 Flask Uncertainty

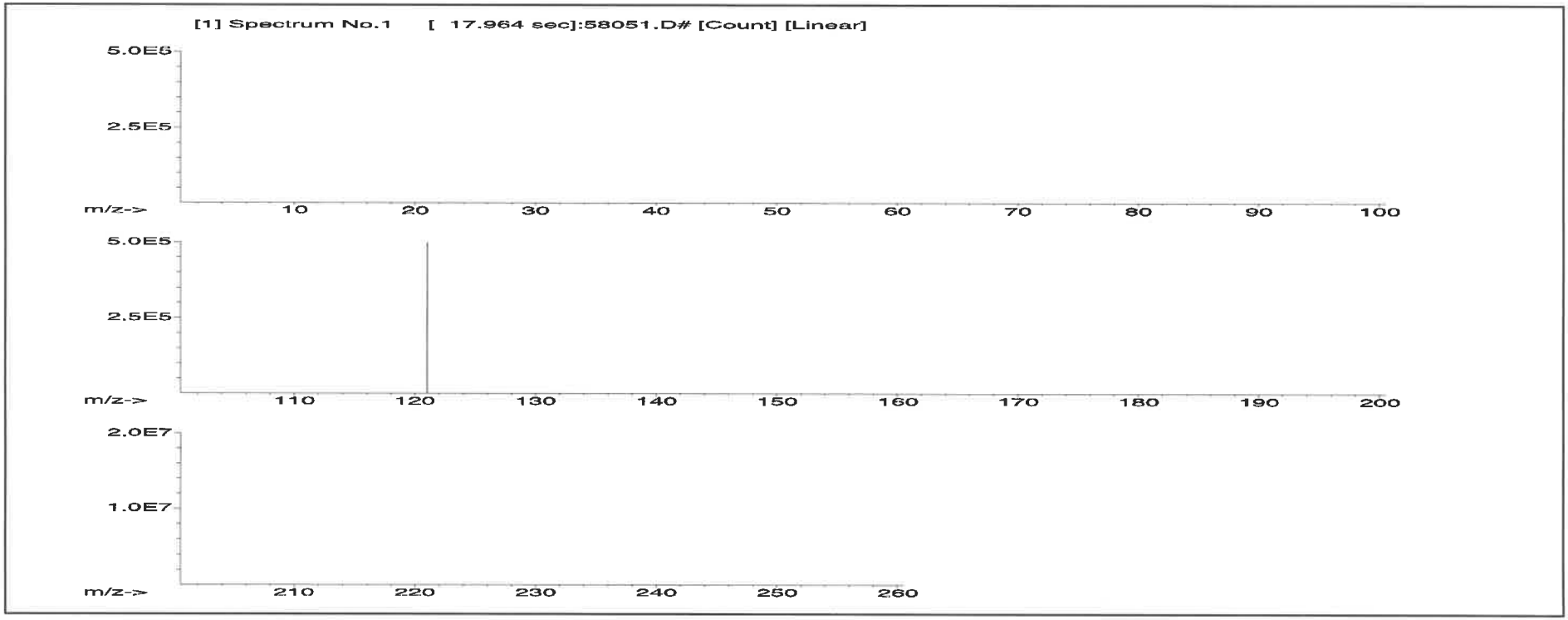
Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	071724
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



Revised
755 of 789
Q1769-METALS

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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
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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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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

M6160

Part Number: 57051
Lot Number: 071724
Description: Antimony (Sb)

Expiration Date: 071727
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.26 ± 0.058 Flask Uncertainty

Lot #	Solvent:		
24002546	Nitric Acid		
2.0%	40.0 (mL)	Nitric Acid	

5E-05 Balance 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
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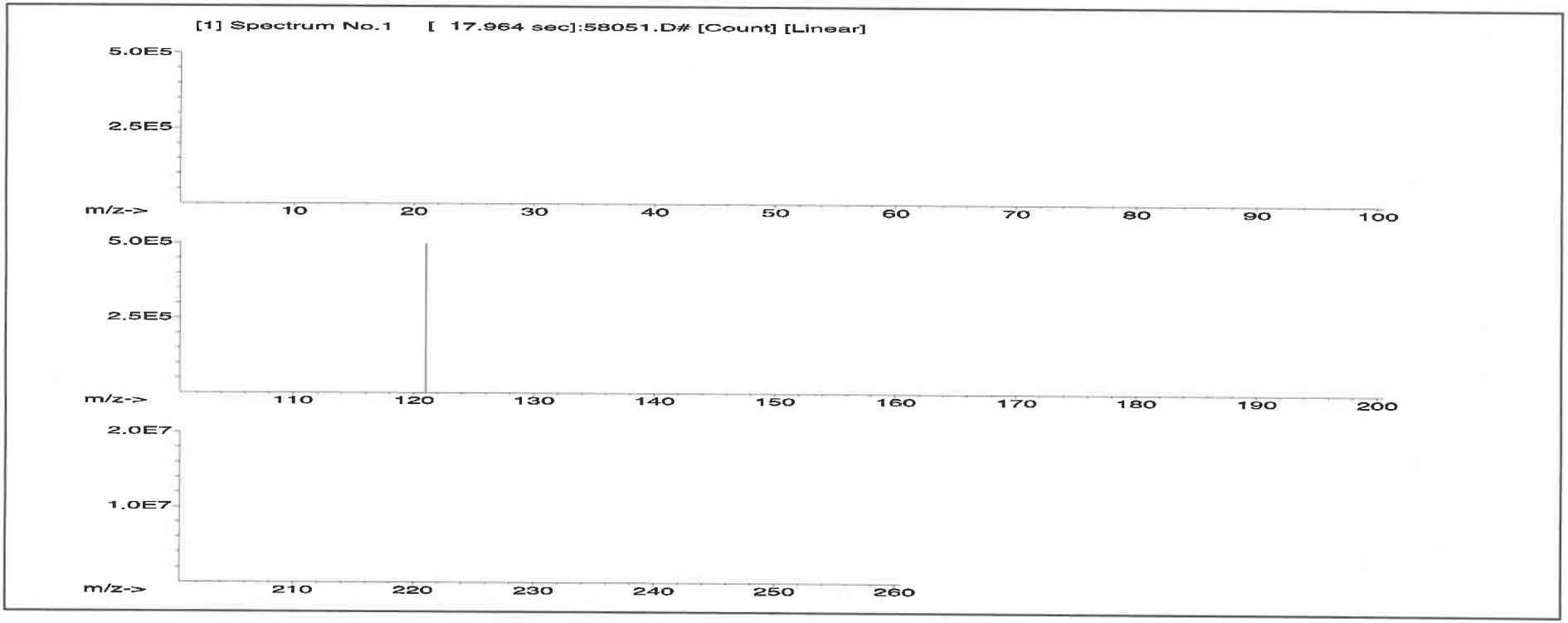

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Trace Metals Verification by ICP-MS (µg/mL)

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
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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.

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Part # **57051** Lot # **071724**

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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 885.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 888.01 ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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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 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSR1
Lot Number:	U2-SR730227
Matrix:	0.1% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Strontium
Starting Material:	SrCO3
Starting Material Lot#:	M2-2192
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 3 µg/mL

Density: 1.000 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

Assay Method #2 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 888.01 ACCREDITED Reference Material Producer Certificate 883.02

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.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001980	M	Eu	<	0.000495	O	Na		0.000200	M	Se	<	0.013862	O	Zn		0.000143
O	Al		0.000370	O	Fe		0.000410	M	Nb	<	0.000495	i	Si	<		M	Zr	<	0.000495
M	As	<	0.000495	M	Ga	<	0.000495	M	Nd	<	0.000495	M	Sm	<	0.000495				
M	Au	<	0.000989	M	Gd	<	0.000495	O	Ni	<	0.007631	M	Sn	<	0.000990				
M	B	<	0.039606	M	Ge	<	0.000495	M	Os	<	0.000494	s	Sr	<					
M	Ba		0.006486	M	Hf	<	0.000495	i	P	<		M	Ta	<	0.000495				
M	Be	<	0.000990	M	Hg	<	0.000989	M	Pb	<	0.002970	M	Tb	<	0.000495				
M	Bi	<	0.000495	M	Ho	<	0.000495	M	Pd	<	0.003957	M	Te	<	0.027724				
O	Ca		0.004255	M	In	<	0.000495	M	Pr	<	0.000495	M	Th	<	0.000990				
M	Cd		0.001339	M	Ir	<	0.000494	M	Pt	<	0.002970	M	Ti	<	0.005940				
M	Ce	<	0.004950	O	K	<	0.008184	M	Rb	<	0.002970	M	Tl	<	0.000495				
M	Co	<	0.000495	M	La	<	0.000495	M	Re	<	0.000495	M	Tm	<	0.000495				
O	Cr	<	0.003207	O	Li	<	0.000884	O	Rh	<	0.012829	M	U	<	0.001485				
M	Cs	<	0.000990	M	Lu	<	0.002970	M	Ru	<	0.000989	M	V	<	0.001980				
M	Cu		0.000099	O	Mg		0.000064	i	S	<		M	W	<	0.003960				
M	Dy	<	0.000495	O	Mn		0.000066	M	Sb	<	0.014852	O	Y	<	0.000995				
M	Er	<	0.000495	M	Mo	<	0.001980	M	Sc	<	0.001980	M	Yb	<	0.000495				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% HNO_3 / LDPE container.

Sr Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 88 amu	1200 ppt	N/A	72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2
ICP-OES 407.771 nm	0.0004 / 0.00006 µg/mL	1	U, Ce
ICP-OES 421.552 nm	0.0008 / 0.00004 µg/mL	1	Rb
ICP-OES 460.733 nm	0.07 / 0.003 µg/mL	1	Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 03, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 03, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
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Revised

777 of 789

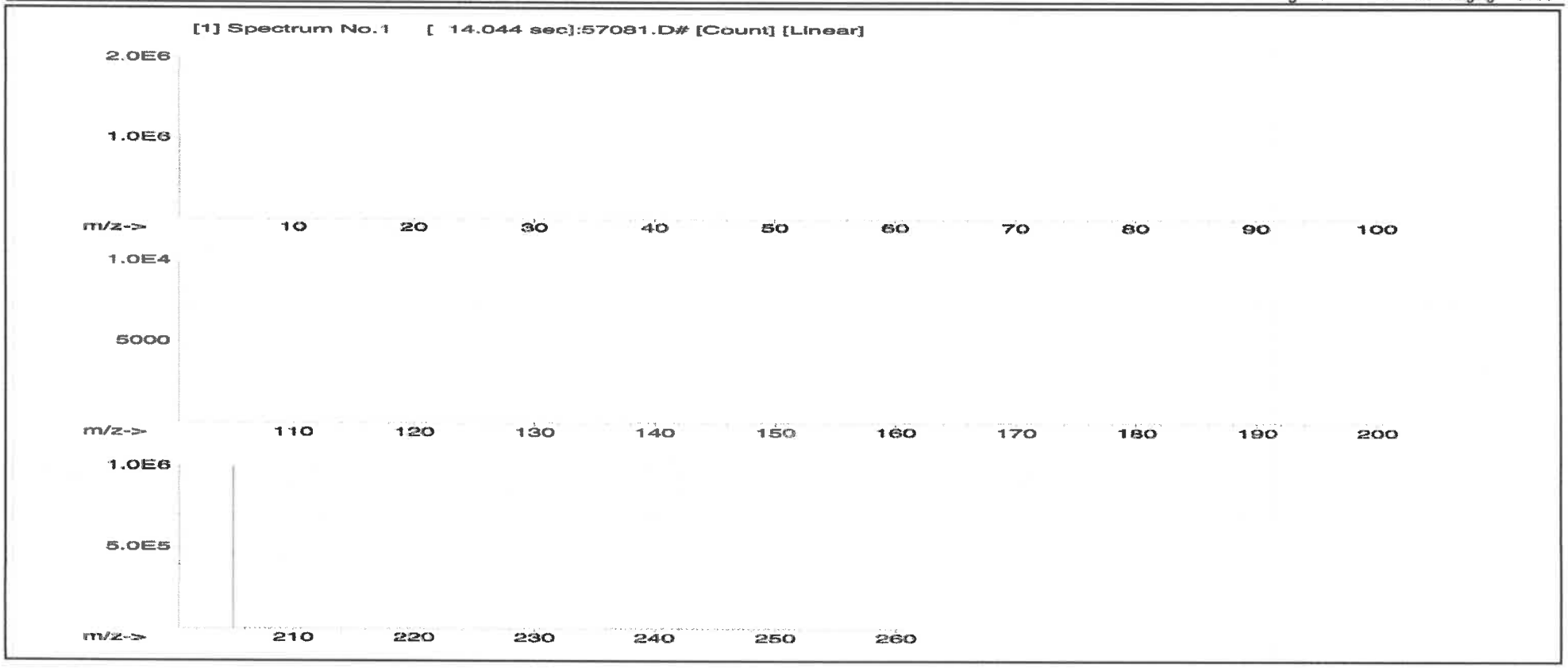
CERTIFIED WEIGHT REPORT:

Part Number:	**57081**		**Lot #**		
Lot Number:	**062724**	**Solvent:**	24002546	Nitric Acid	
Description:	**Thallium (Tl)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	062727				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.1	0.10	Flask Uncertainty		

Aleah O'Brady

Formulated By:	Aleah O'Brady	062724
Reviewed By:	Pedro L. Rentas	062724

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Thallium nitrate (Tl)	IN037	BCCF4399	1000	99.999	0.10	77.0	2.5975	2.5977	**1000.1**	**2.0**	10102-45-1	0.1 mg/m3	orl-mus 15mg/kg	3158



Q1769-METALS

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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	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM
M5545,M5546,M5547,M5548 RD:05/08/2023

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

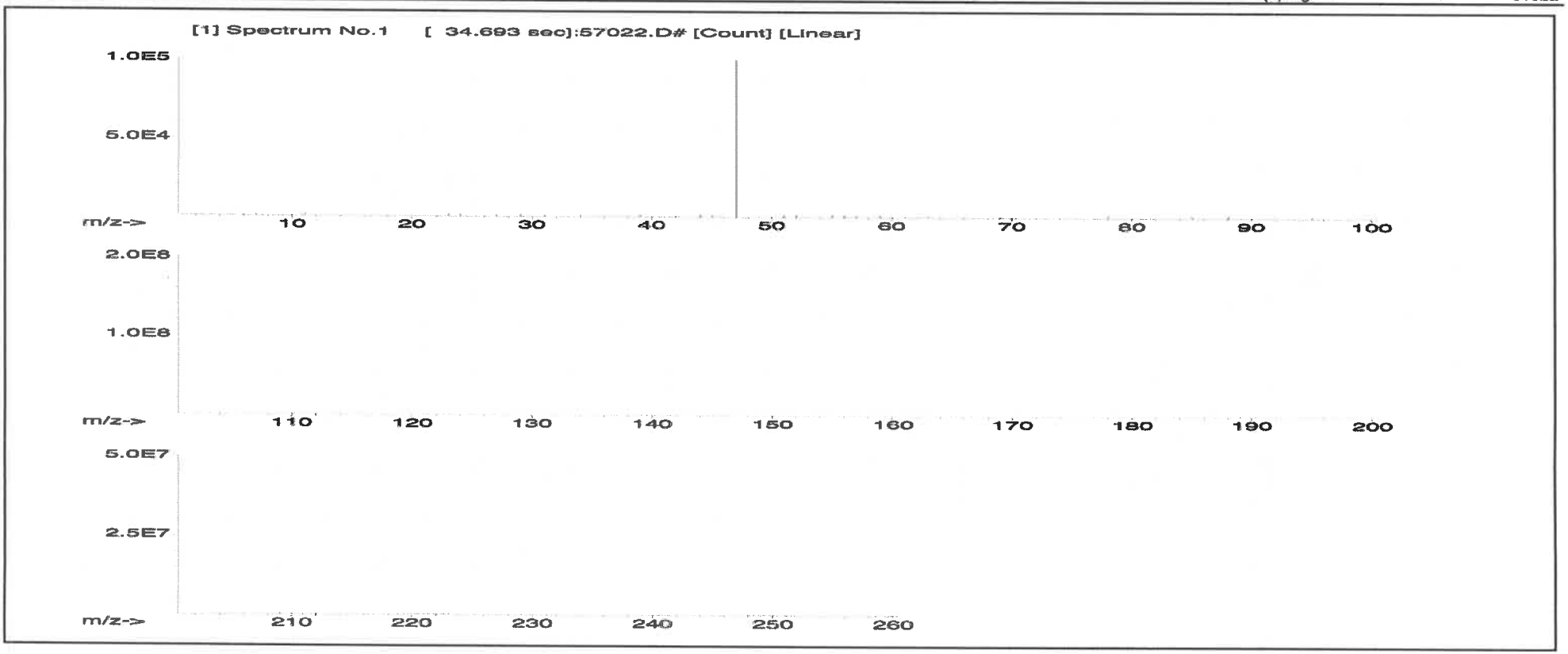
Revised

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**			
Lot Number:	**050223**	21110221	Nitric Acid	
Description:	**Titanium (Ti)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	050226			
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	050223
Reviewed By:	Pedro L. Rentas	050223

	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 hexafluorotitanate (Ti)	58122	071122	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



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Certified Reference Material CRM

ANAB ISO 17034 Accredited
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<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.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

B: 8/13/24 M6020

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	U2-U735194
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	2504
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1001 ± 4 µg/mL**
ICP Assay NIST SRM traceable to 3164 Lot Number: R2-U689597

Assay Method #2 **1000 ± 5 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

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)

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	<	0.001400	M	Eu	<	0.000270	M	Na		0.001811	M	Se	<	0.004800	M	Zn		0.002126
M	Al		0.000322	M	Fe		0.007481	M	Nb	<	0.000790	i	Si	<		M	Zr	<	0.000270
M	As	<	0.007300	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.001400	M	Gd	<	0.000270	M	Ni		0.000905	M	Sn	<	0.120000				
M	B	<	0.017000	M	Ge	<	0.000800	M	Os	<	0.000270	M	Sr	<	0.000270				
M	Ba	<	0.003100	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270				
M	Be	<	0.003200	M	Hg	<	0.000270	M	Pb		0.000511	M	Tb	<	0.000270				
M	Bi	<	0.003000	M	Ho	<	0.000270	M	Pd	<	0.000270	M	Te	<	0.001100				
M	Ca	<	0.048000	M	In	<	0.001400	M	Pr	<	0.000270	M	Th		0.000200				
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.000530				
M	Ce	<	0.000270	O	K	<	0.047000	M	Rb	<	0.000660	M	Tl	<	0.000270				
M	Co	<	0.000270	M	La		0.000322	M	Re	<	0.000270	M	Tm	<	0.000270				
M	Cr		0.001732	M	Li	<	0.001100	M	Rh	<	0.000270	s	U	<					
M	Cs	<	0.003500	M	Lu	<	0.000270	M	Ru	<	0.000270	M	V	<	0.003500				
M	Cu	<	0.005600	M	Mg		0.000240	i	S	<		M	W	<	0.000270				
M	Dy	<	0.000270	M	Mn	<	0.006500	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo		0.000433	M	Sc	<	0.000800	M	Yb	<	0.000270				

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 - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
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 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

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

August 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

- August 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.

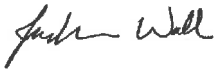
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Jodie Wall
Stock VSM Coordinator



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Bc. 8/5/24

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	

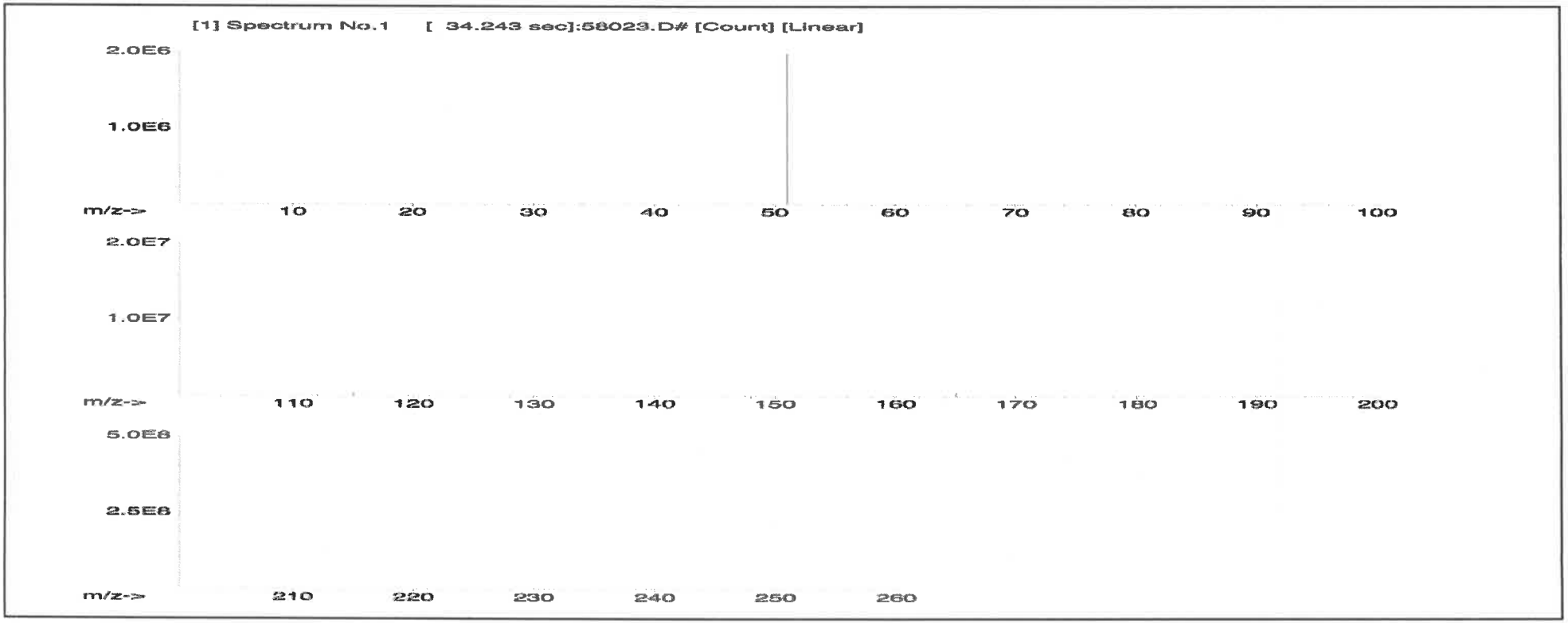
Aleah O'Brady

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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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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).

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1769
QUOTE NO.
COC Number 2046604

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yntante John.Yntante@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: As (6020B) 2: SPLP As (6020B/1312) 3: As (6020B) 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E	E	B/E							← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	S-878-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1005	1	✓	✓								HOLD!!
2.	S-875-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1030	1	✓	✓								HOLD SPLP!
3.	S-874-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1100	1	✓	✓								HOLD SPLP!
4.	S-874-KI-SO-1.0-1.5-040925-FD	SO	X		4/9/25	1105	1	✓	✓								HOLD SPLP!
5.	S-877-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1235	1	✓	✓								HOLD!!
6.	S-873-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1255	3 (TM)	✓	✓								MS/MSD · HOLD SPLP!
7.	S-876-KI-SO-1.0-1.5-040925	SO	X		4/9/25	1350	1	✓	✓								HOLD!!
8.	EB01-040925	DI	X (TM)	X	4/9/25	1420	1			✓							
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4-9-25 1637	1. 1637 4-9-25
2.		2.
3.	4-9-25 1800	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.3 °C
Comments: Hold all SPLP analysis
Hold entire sample for S-876, S-877, S-878
Temp 3.3°C Adjustment factor + 1 IR Gun #1.

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488